

Rochu®

Give Your Robot a Soft Hand

Catalog Version 2.9

Suzhou Rochu Robotics Co.,Ltd.

WhatsApp

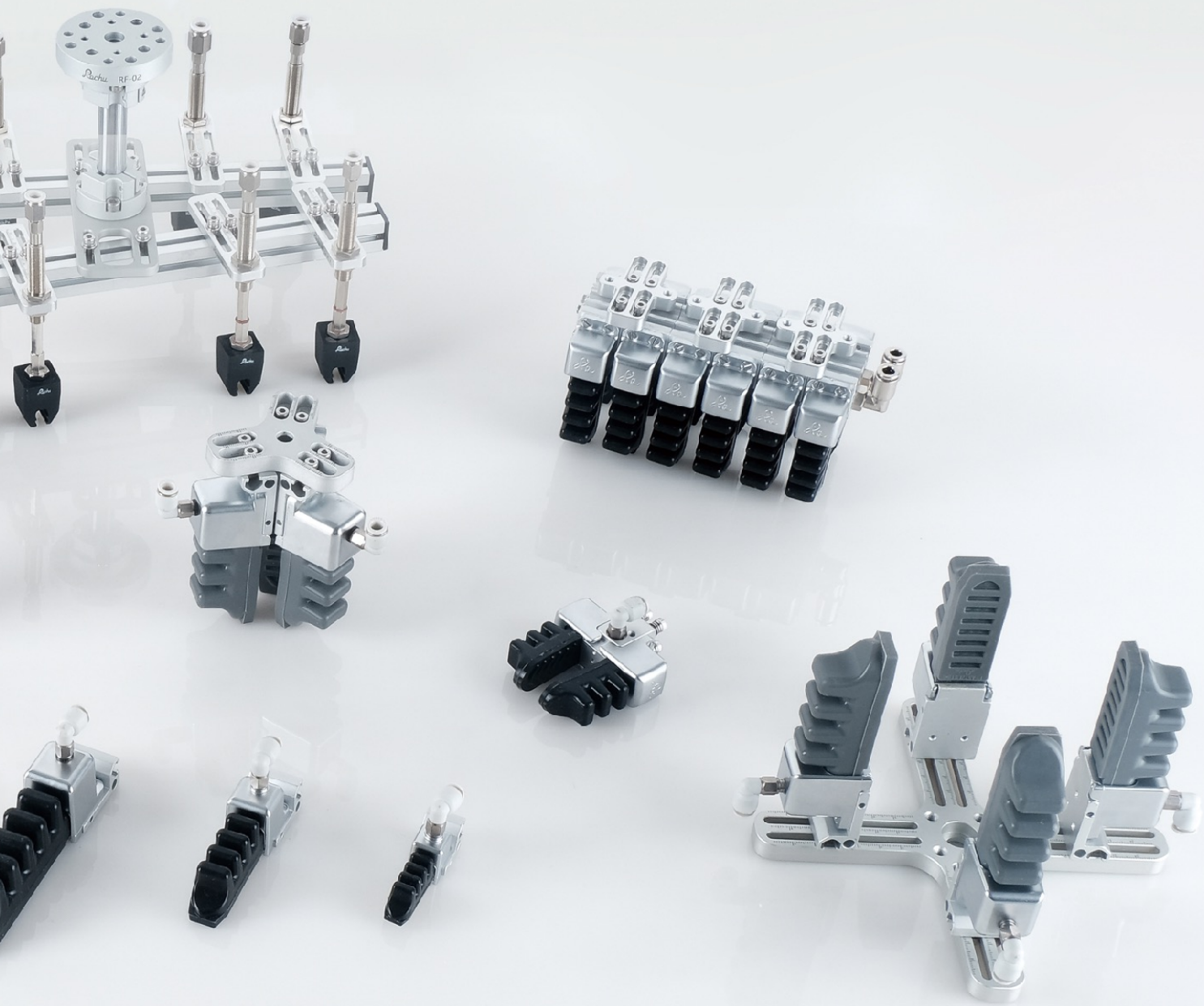


Special

Online

Customizable

Online service and free3D-CAD-models download



Fast

Trusty

Fast counsel and delivery

Reliable and good quality

Rochu

Suzhou Rochu Robotics Co., Ltd., is located in Suzhou, China. We focus on soft robot technology and are committed to providing soft gripper solutions for industrial automation. Combined with the bionic design concept, Rochu provides a wide range of industrial solutions with soft grippers and robots. The company's main products are Rochu grippers and the control units, which have been used in 3C* electronics, the food industry, auto parts, garment manufacturing, medical treatment, robot education, packaging logistics, etc.

The company is capable of structural design, material manufacture, and mass production of soft grippers. It has an accredited laboratory in line with CNAS ISO17025 standards. The self-built 3000 m² factory has obtained the IS09001 certification. Our products comply with the FDA, the 1935 / 2004 / EC Food safety certification, the CE Electronic safety certification, and RoHS Environmental safety certification. Our products have obtained many patents from China, Japan, South Korea, the Unites States, and other countries. In addition to China, we have customers from Japan, South Korea, India, Germany, France, the Unites States, etc.

Rochu gives your robot a soft hand. We look forward to hearing from you and cooperating with you soon.

*:3C: Computer, Communication, and Consumer electronics.

Abundant product models

We provide a large number of soft gripper models, with modular applications, which can quickly work out your soft gripping solution.

Many ways to help you choose

Don't know how to choose models? Don't worry.

We have professional consultants to assist you, and we can also provide gripping tests for your samples if provided to eliminate your worries.

Save design time

You can download 3D-CAD-models at www.rochu.com, a variety of models for your choice!

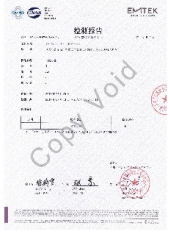
Fast customizable service

Rochu's professional technical team provides you with customizable services. The average develop-time is 30 working days.

Honor and qualification










Patents



Partners


DOBOT


EPSON


UNIVERSAL ROBOTS
Certified


KUKA


YASKAWA
MOTOMAN ROBOTICS


AUBO


WLKATA
开塔机器人


atomrobot
阿童木机器人


ABB


FANUC


HUAWEI




FOXCONN




TM
ROBOT


ELITE 艾利特
Intelligence Deduction


BOSCH


Alibaba Group
阿里巴巴集团


CATL
宁德时代


台达
DELTA




faurecia


平方和
SIGMA SQUARES TECH


BORUNTE


RBB 株式会社
Robot Bank For The World


MISUMI


HUROT
HUMAN & ROBOT TOGETHER


ioranges


ROBOT
PHOENIX
翼菲自动化


华域汽车


KLA-Tencor


STEP
新时达



Product Advantages

Scan to watch videos



- Bionics structure design and covering clamp enable the soft grippers to grasp the objects with **centimeter-level adaptive ability**.
- Facing the soft production line of small-batch and multi-batch in the factory, Rochu can effectively save the switching time of the production line.
- Can adapt to most industrial scenes with **300 times/min opening and closing speed, ±0.05mm precision, millions of times service life, 9kg maximum load, good chemical and temperature resistance.**

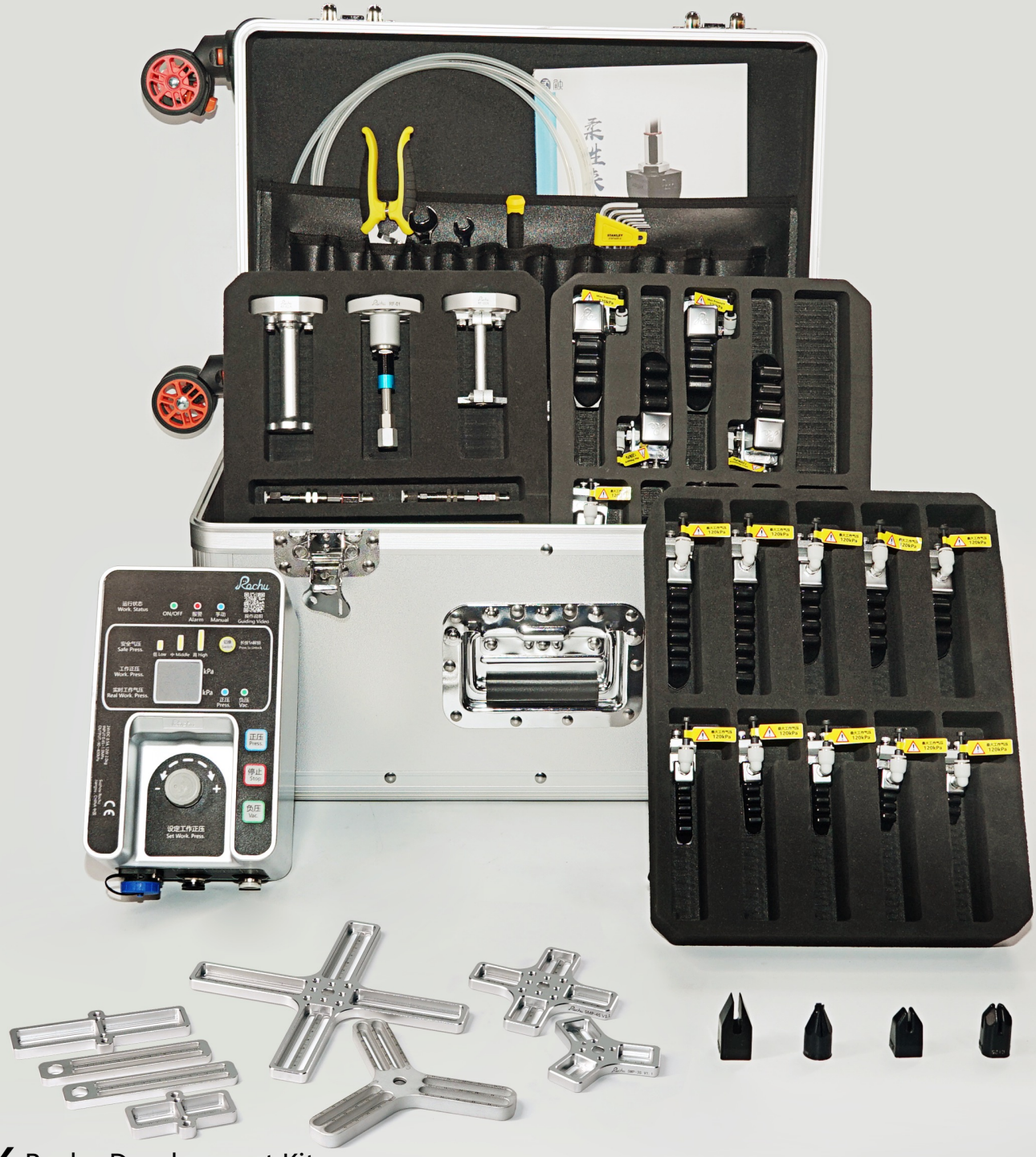


- Rochu’ s soft gripper is made of **pure soft material** and possesses **adjustable clamping strength**, making it **safe** to pick and place soft and flimsy objects.
- To deal with vulnerable and fragile products, Rochu’ s soft gripper can not only avoid damage but also avoid scratches on the surface while the safety of the operator is also guaranteed.
- The material has obtained **FDA Certification** and can be in direct contact with food.



- The **standardized** finger module makes the construction of soft gripper as simple as building blocks and saves design time.
- Rochu Control Unit is equipped with **a standard communication interface**, which is seamlessly matched with **all kinds of mechanical arms** and PLC, as **easy** as using a USB flash drive.
- The controller has a wireless remote control function and built-in air source (ACU configuration), which is convenient for installation and adjustment. It can also be used in **the mobile working environment** without an air source.

DK Development Kit



DK Rochu Development Kit

- It includes a full range of Rochu grippers from soft beaks to fingers.
- It can be used without additional accessories and tools. Modules can be assembled and tested quickly in minutes.
- Contains a standard plug-and-play control unit that can be driven by compressed air or power.
- It can be used for the food fresh, 3C electronic parts, clothing fabrics, and auto parts industry, etc.

Rochu Development Kit 2.0

Bom list



Finger Module ×22



Parts kit ×1



Tools kit ×1



Connection Modules ×6



Slide Mounting Plate ×8



Beak Module×4



Control Unit ×1



Trolley case×1

Applications





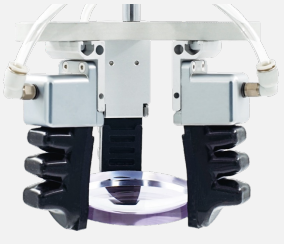












Applications

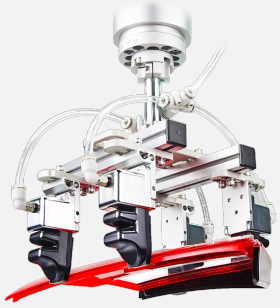
Scan to watch videos

The movement of the Rochu grippers is inspired by the tentacles of the octopus, which can softly wrap the object without damaging the object or leaving scratches on its surface. The grippers can be widely used in auto parts, 3C electronics, food, medical, clothing, daily chemicals, and other industries. Soft Fingers can be used in a variety of industrial applications such as assembly, sorting, and handling, as well as in new retail industries such as vending machines. High safety, good versatility, and convenient installation make up for the vacancy that mechanical grippers and vacuum suction cups can not be applied on some occasions.



3C Electronics

It applies to the high-precision plug and pull of precision electronic instruments, as well as the assembly, sorting, testing, packaging, and other production processes of related accessories of mobile phones, circuit boards, silicon wafers, thin glass, and other workpieces.



Auto parts

It is used for sorting, handling, loading, and unloading automobile headlights, metal special-shaped parts, and exterior parts. Especially suitable for small batch and multi-batch soft production requirements.



Fabric

It is suitable for layered grasping or multi-layer simultaneous grasping of knitted and woven fabrics. During layered grabbing , it can only grab the top layer or handle a whole stack of pieces.



Food

Food safe materials. It has obtained FDA Certification and can directly contact the food. It is especially suitable for sorting and packaging fruits and vegetables, irregular vacuum packaged food, dairy products, dough cakes, and so on.



Smart Fetching

Intelligent grab based on artificial intelligence technology can be used for disorderly stacking, incoming material sorting and logistics packaging in complex scenes.



Medical Supplies

It is used for grasping medical consumables such as infusion tubes, test tubes, ampoules, as well as bottled and bagged reagents, and for the process of production and disinfection of medical instruments.

Rochu Gripper Introduction

Rochu gripper is a kind of soft fixture independently researched and developed by Rochu Robotics. Rochu's soft gripper applies the principle of bionics to imitate the action of octopus tentacles wrapping the object and grasping the object in a wrapped manner.

Traditional fixtures often cannot provide a successful grasping scheme because of many limitations, such as object shape, material, grasping requirements, and so on. Rochu soft gripper is made of soft materials, which will not damage the target object. At the same time, due to its centimeter-level adaptive ability, it has high versatility. One gripper is universal and suitable for objects of different shapes. Users do not need to change the gripper frequently.

Rochu gripper fills the vacancy of the robot's end gripper and greatly expands the application scene of the industrial robot.

Working principle

Rochu soft gripper adopts pneumatic drive technology. Through positive and negative pressure switching, the gripper achieves soft fingers/soft beak opening and closing action, so as to achieve grasp or outward expansion action.

At the same time, by adjusting the air pressure to control the clamping strength of the gripper or the angle of opening and closing, to achieve the flexible grasp of different objects, while avoiding pinching objects.

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Rochu 柔触

Rochu Control Unit



Finger



Open



Release



Grab

Beak



Grab



Release



Open

The air pressure must be strictly controlled within the Safe Pressure range. Overload use may cause irreversible damage to the product. It is recommended to use the original Rochu control unit to ensure the service life and stability of the product. Please refer to the product page or package identification for the air pressure of the product.

Soft finger & soft beak material characteristics

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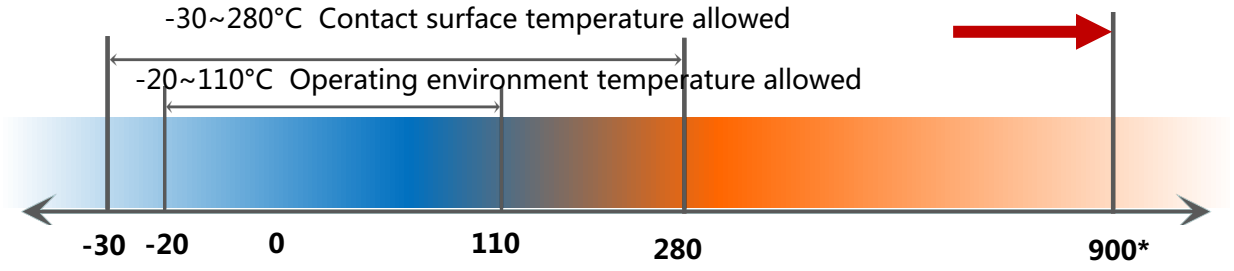
Material safety performance

FDA Certification

1935/2004/EC Regulation

RoHS Certification

Temperature resistance performance



(Conventional material) (High temperature-resistant material *)

* : High temperature-resistant fingers need to be customized according to the requirements of the scene.

Please consult relevant technical support for specific information.

Chemical resistance performance

Classification	Concrete Conditions	Performance
Weather Fastness	General aging resistance	Excellent
	UV-Resistance	Good
	Ozone resistance	Good
Oil Resistance	Vegetable oil resistance	Excellent
	Fuel resistance: gasoline	Normal
	Fuel resistance: light oil	Not good
Solvent Resistance	Alcohol and 96% ethanol resistance	Good
	Organic solvents resistance (benzene, toluene, acetone, ethyl acetate)	Normal
Acid-base Resistance	Resistance to strong acid (hydrochloric acid, sulfuric acid, nitric acid, etc.)	Normal
	Resistance to strong base (sodium hydroxide, potassium hydroxide, etc.)	Normal
	Resistance to weak acid and pH: 6-7 (such as low concentration phosphoric acid, oxalic acid, etc.)	Good
	Resistance to weak base and pH: 7-8 (low concentration ammonia, etc.)	Good
	Hydrofluoric acid and other highly corrosive substances	Not good
The Others	Steam resistance	Excellent
	Wear-resistance	Normal

Anti-static materials [AS] electrical parameters

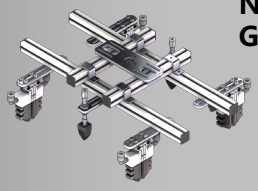
Project	Test Standard	Material	
		Anti-Static Material [AS]	Conventional Material
Surface resistance[Ω]	IEC 61340-2-3:2016	10^6—10^9	$>10^{10}$

General Index

GC
Gripper Combination



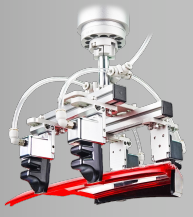
Standard GC
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Non-standard GC
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Fabric Applications
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Food Industry Applications
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BM / B
Beak Module/ Soft Beak



Bicuspid Soft Beak
Beak Module
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Tricuspid Soft Beak
Beak Module
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Quadricuspid Soft Beak
Beak Module
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FM / F
Finger Module / Finger



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Finger Module B
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Finger Module C
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CU
Control Unit



iPCU2
Integrated Passive Control Unit
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Active Control Unit
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ACU2-H
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PCU2
Passive Control Unit
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LCU-H
Light Control Unit
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CM
Connection module



SMP *page. 471*
Slide Mounting Plate



CM *page. 478*
Connection Module



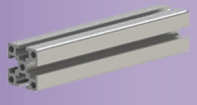
FCM *page. 481*
Flange Connection Module



QCM *page. 485*
Quick changer Module



CP *page. 487*
Connector Part



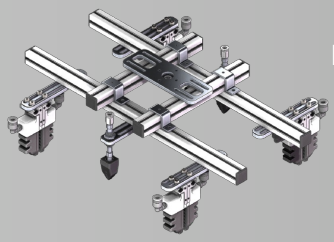
P *page. 488*
Profile

1

GC
Gripper Combination



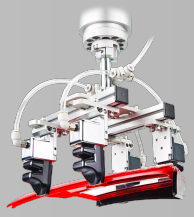
Standard GC



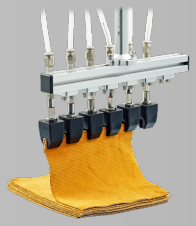
Non-standard GC



3C Electronics Parts Applications



Automobile Parts Applications



Fabric Applications



Food Industry Applications

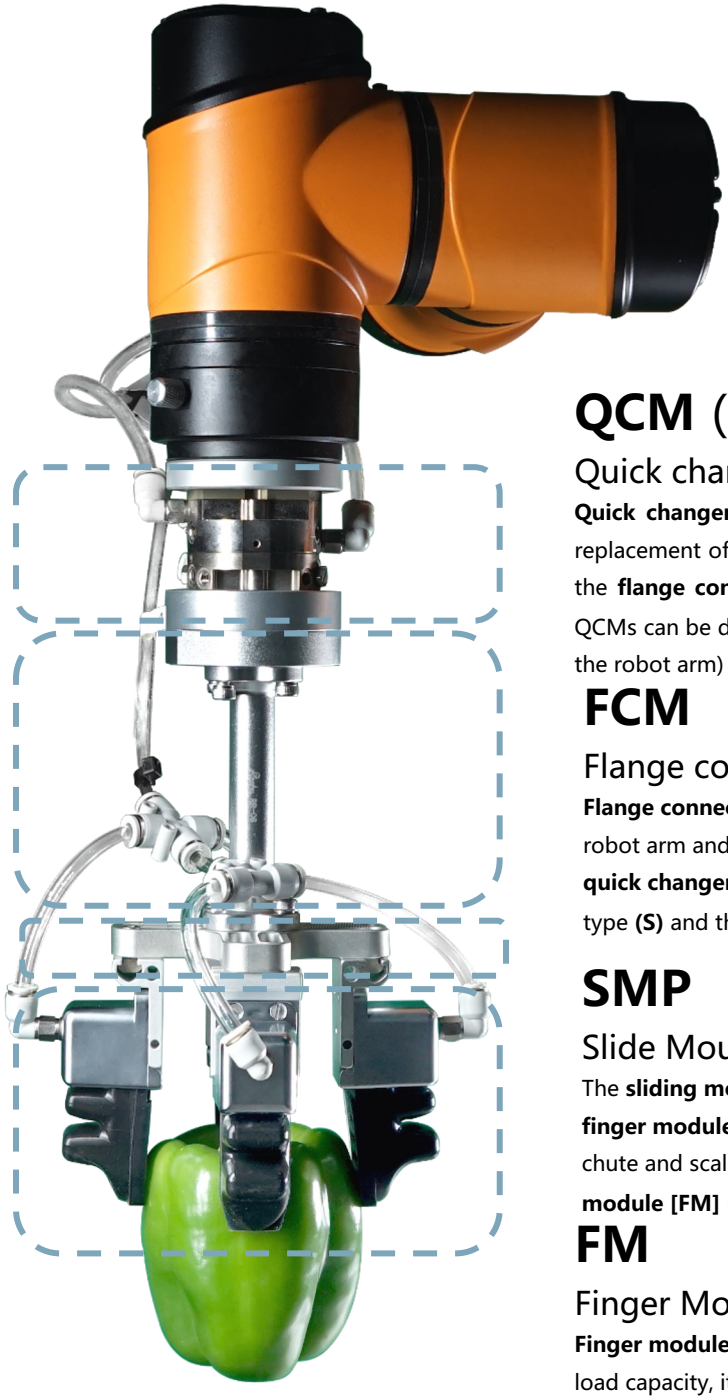
Gripper Combination

GC

Standard Gripper Combination

A standard Rochu Soft finger Gripper Combination **[GC]** is built of different modules and named in a standard way. The building of modules can be in the following steps: 1. Finger module **[FM]**, 2.Slide Mounting plate **[SMP]**, 3.Flange Connection Module **[FCM]**, 4.Quick changer Module **[QCM]** (Optional).

Scan to watch videos



QCM (Optional)

Quick changer module

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Quick changer module [QCM] is an optional module for automatic and quick replacement of spare grippers. **Quick changer module[QCM]** is installed between the **flange connection module [FCM]** and the end of the robot arm. A pair of QCMs can be divided into two parts, the **robot side** (**R side**, installed at the end of the robot arm) and the **gripper side** (**G side**, installed at the gripper end).

FCM

Flange connection module

page. 72

Flange connection module [FCM] is a connector between the end of the robot arm and the sliding mounting plate [SMP]. It can also be connected with **quick changer module [QCM]**. There are two types of **[FMC]**, the spring rod type **(S)** and the rigid rod type **(R)**.

SMP

Slide Mounting Plate

page. 69

The **sliding mounting plate [SMP]** is the standard mounting plate for Rochu **finger module [FM]**, and the mounting plate is equipped with a standard chute and scale mark. The installation position and posture angle of the **finger module [FM]** in the chute can be adjusted freely.

FM

Finger Module

page. 48

Finger module [FM] is the actuator of Rochu claw. According to the finger load capacity, it can be divided into three series, finger**(A)**, finger**(B)**, and finger**(C)**. Each module can be installed separately or combined seamlessly, which is easy to assemble and disassemble.

Gripper Combination

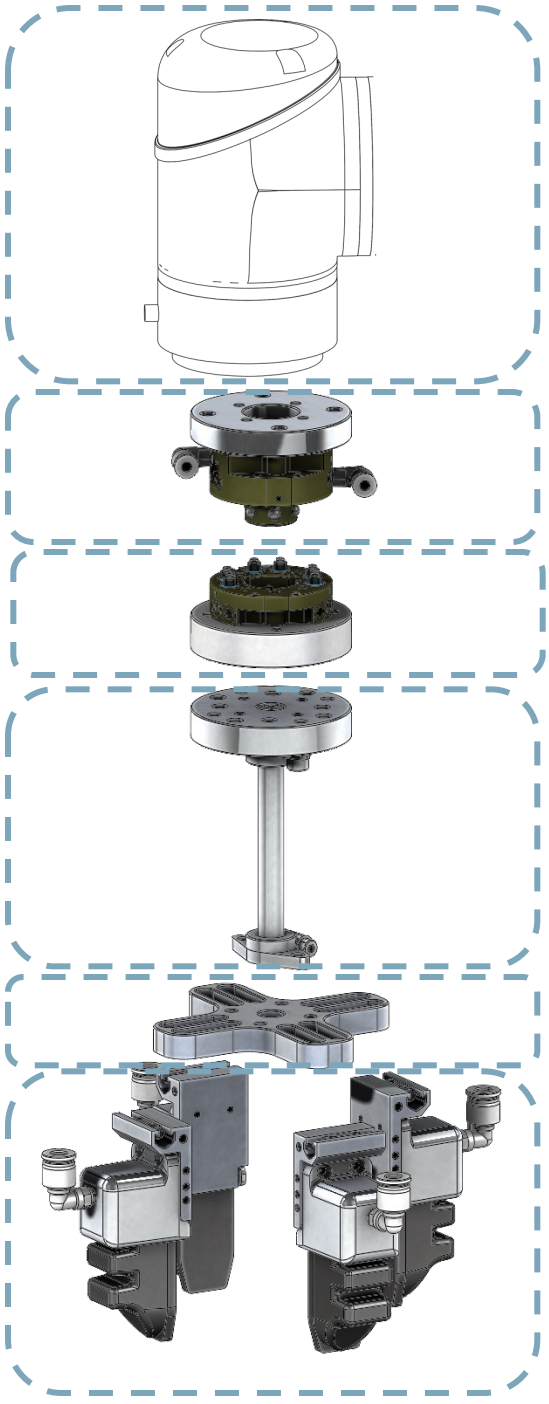
Encoding Method of standard Gripper Combination

Scan to watch videos

GC - 4 FMA3V5/ LS1 – SMP4S – FCMR04 - QCM02G - QCM02R

① ② ③ ④ ⑤





Cobot Arm

⑤ Quick Changer Module
QCM-02R
page. 76

④ Quick Changer Module
QCM-02G
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③ Flange Connection Module
FCM-R04
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② Slide Mounting Plate
SMP-4S
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① Finger Module
4 x FM-A3V5/LS1
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Gripper Combination

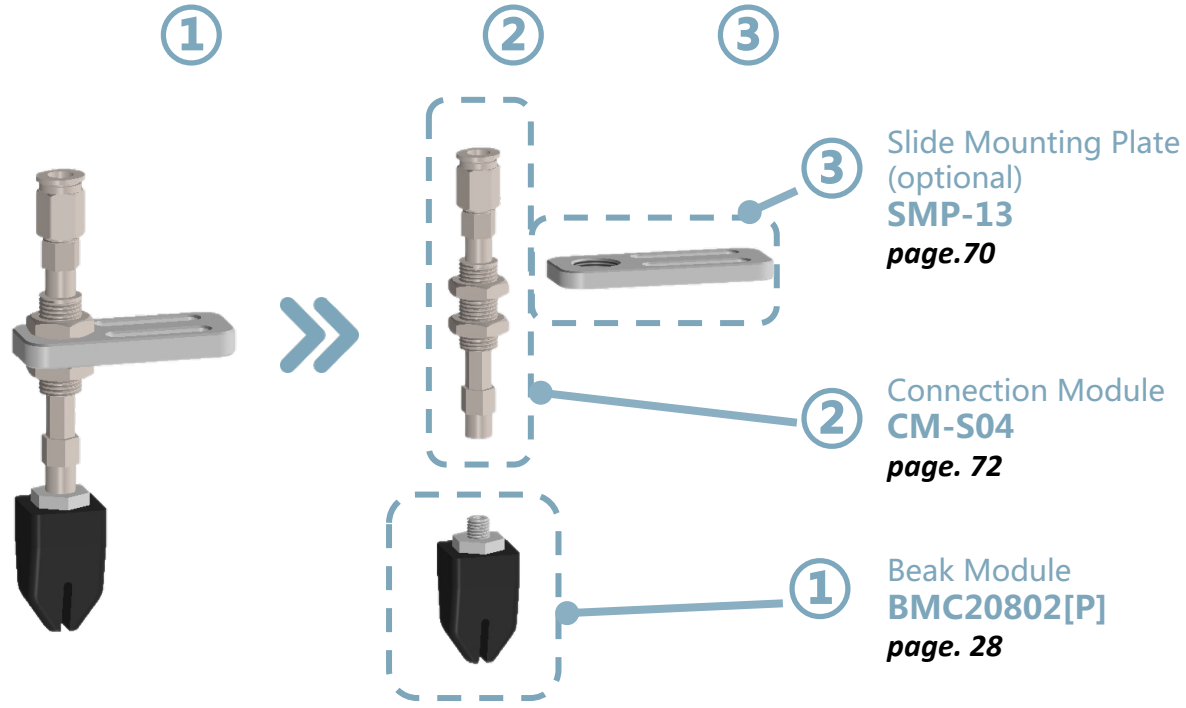
Encoding Method of standard Gripper Combination

Scan to watch videos

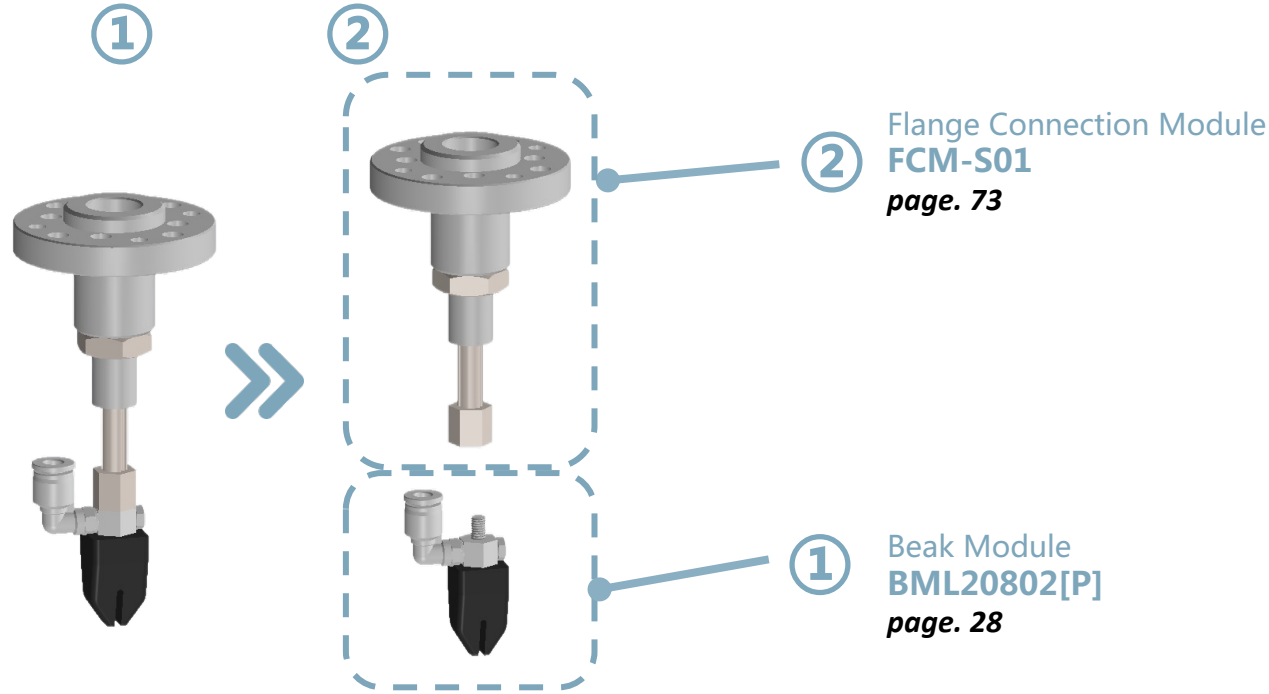
GC

Standard Rochu beak gripper combination [GC] can be combined in the following order, 1. Soft beak module **[BM]**, 2. Connection module **[FCM] / [CM]**, 3. Sliding mounting plate **[SMP]** (optional).

GC – BMC20802[P] – CMS04 – SMP13



GC – BML20802[P] – FCMS01



Gripper Combination

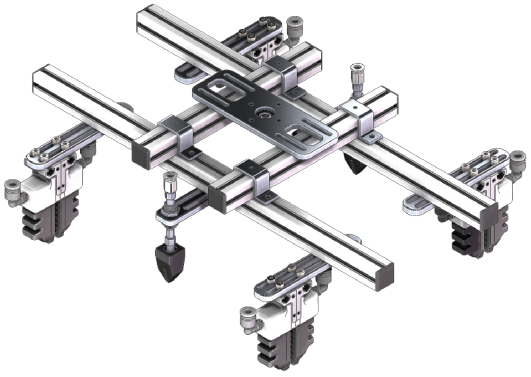
Non-standard Gripper Combination

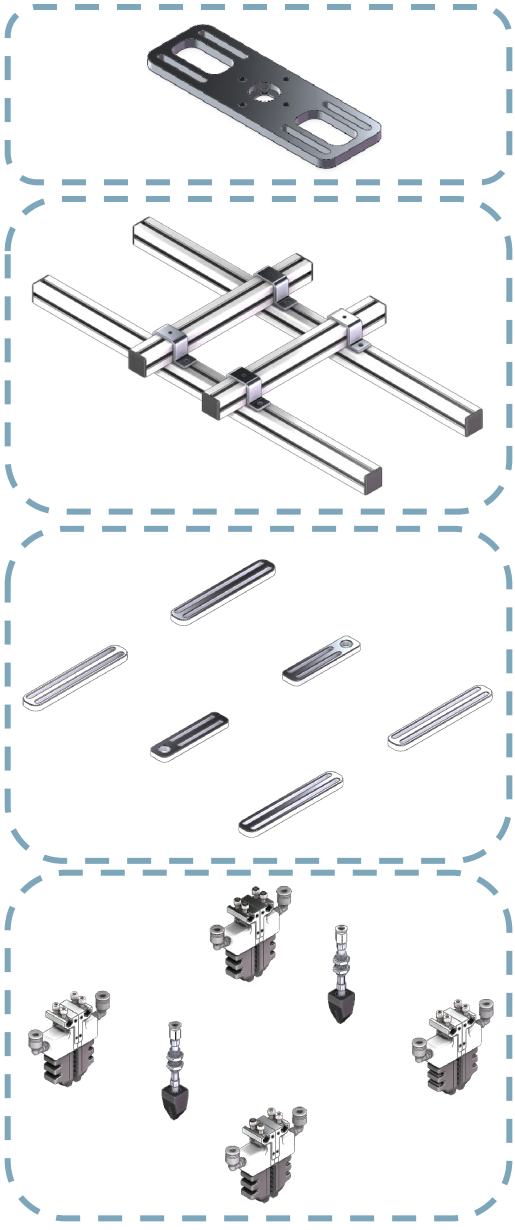
Scan to watch videos

GC

Product Features

- Suitable for products with large volumes or irregular shapes.
- Aluminum alloy profiles are used for combination and connection.
- Standard gripper combination [GC] or module [FM] can be installed in any part of the bracket.
- Suction cups, sensors, cylinders, or other components can also be added according to the working conditions.
- The gripper plan adopts the BOM(Bill Of Materials) method.





Connection Part [CP]
CP-04 ***page. 90***

Connection Part [CP]
4 x **CP-01** ***page. 90***

Profile [P] ***page. 91***
2 x **P-20200**
2 x **P-20400**

Slide Mounting Plate [SMP] ***page. 70***
4 x **SMP-03**
2 x **SMP-14**

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Finger Module [FM]
8 x **FM-B4V5/LS1**

Gripper Combinition [GC]
2 x **GC-BMC20802[P]-CMS04** ***page. 16***

BOM List		
Product Name	Product code	Quantity
Connection Part	CP-04	1
onnection Part	CP-01	4
Profile	P-20200	2
Profile	P-20400	2
Slide Mounting Plate	SMP-03	4
Slide Mounting Plate	SMP-14	2
Finger Module	FM-B4V5/LS1	8
Standard Gripper Combination	GC –BM2B-CMS04	2

Gripper Combination

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GC

3C Electronics Parts Applications:

- Gripper combination for flat parts



GC – 2FMA3V5/LS1– SMP2L



iPCU2-SMN

Integrated Passive Control Unit – Standard Model*

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* : For other Control Units, see page. 402.

Gripper Combination Plans



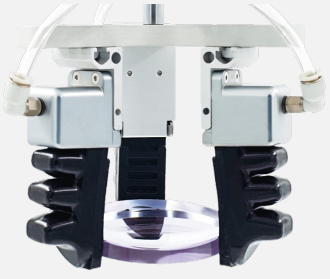
Finger Module: FM-C3V5/LS1
Slide Mounting Plate: SMP-4L



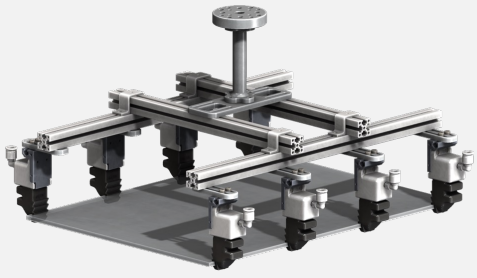
Standard Gripper Combination:
GC-4FMC3V5/LS1-SMP4L



Finger Module: FM-A4V5/LS1
Slide Mounting Plate: SMP-3L



Standard Gripper Combination:
GC-3FMA4V5/LS1-SMP3L



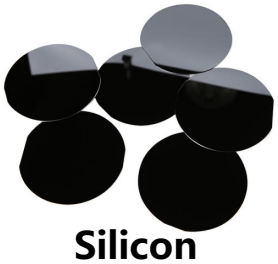
Non-standard

BOM List

Product Name	Product code	Quantity
Finger Module	FM-A3V5/LS8 [AS]	8
Profile	P-20400	2
Profile	P-20300	2
Connection Part	CP-01	4
Connection part	CP-04	1
Flange Connection Module	FCM-R08	1



Integrated circuit



Silicon wafers



Optical lens



Coated glass

夹爪组合 / Gripper Combination

Scan to watch videos

3C Electronics Parts Applications :

- Soft beak for micro and small parts



GC – BMC20006[P] – CMS04



iPCU2-SMN

Integrated Passive Control Unit – Standard Model*

page. 79

* : For other Control Units, see page. 402.

Recommended soft beak: Select the soft beak according to the shape, volume, material and working condition of the clamped object to achieve the best grasping effect. For the technical parameters of the soft beak, see page. 40.

Flat piece parallel clipping



Beak : B-20005V



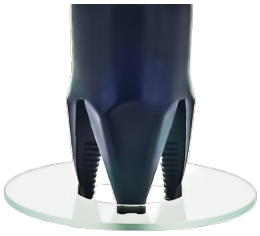


Hole outward support



Beak : B-3B18





Cylindrical workpiece longitudinal plugging



Beak : B-4B18





Flat piece longitudinal plugging

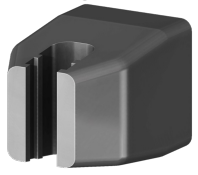


Beak : B-20802





Rod-shaped objects Horizontal grasping



Beak : B-20006





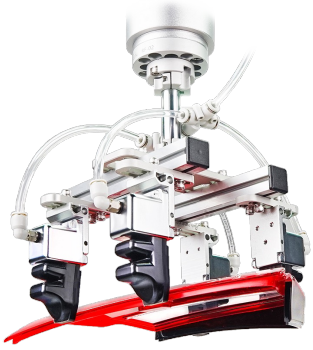
Gripper Combination

Automobile Parts Applications

- Gripper combination for car headlight, seat slide, bearing, soft pack battery, etc.

Scan to watch videos

GC





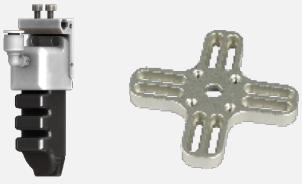
BOM List		
Product Name	Product code	Quantity
Finger Module	FM-A3V5/LS8 [AS]	4
Slide Mounting Plate	SMP-02	4
Profile	P-20300	2
Connection Part	CP-04	1
Flange Connection Module	FCM-R06	1

iPCU2-SMN *page. 79*

Integrated Passive Control Unit – Standard Model*

*: For other Control Units, see page. 402.

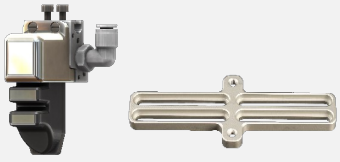
Gripper Combination Plans



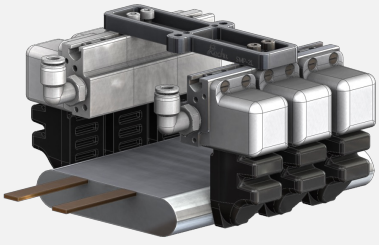
Finger Module: FM-A4V5/FS3
Slide Mounting Plate: SMP-4S



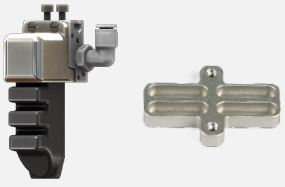
Standard Gripper Combination :
GC-4FMA4V5/FS3-SMP4S



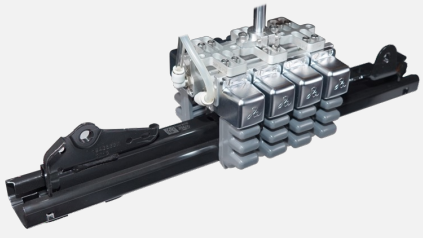
Finger Module: FM-A3V4/LS1
Slide Mounting Plate: SMP-2L



IStandard Gripper Combination:
GC-6FMA3V4/LS1-SMP2L



Finger Module: FM-A4V4/LS1
Slide Mounting Plate: SMP-2S



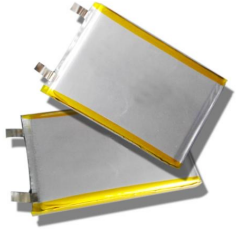
Standard Gripper Combination:
GC-8FMA4V4/LS1-3SMP2S



Car Headlight



Bearing



Soft Pack Battery



Seat Slide



Seat Headrest

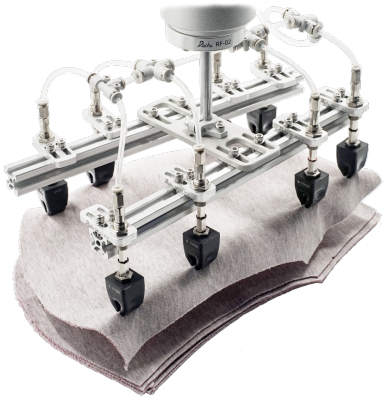
Gripper Combination

Scan to watch videos

GC

Fabric Handling Applications :

- Beak module combinations can be used for soft and breathable thin knitting and woven fabrics in layers. Only the first piece of multi-layer fabrics can be grabbed at a time.





Customized gripper combination:

BOM List		
Product Name	Product code	Quantity
Gripper Combination	GC –BMC20006[P]-CMS04-SMP13	8
Profile	P-20400	2
Connection Part	CP-04	1
Flange Connection Module	FCM-R04	1

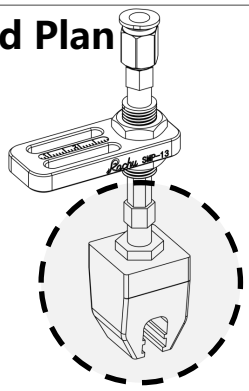
Note: For large soft fabric layers (e.g. T-shirts, sweatshirts, etc.), it is recommended to install multiple independent soft beak grippers at intervals along the edge of the fabric.

Customized gripper combination:

BOM List		
Product Name	Product code	Quantity
Gripper Combination	GC –BMC20006[P]-CMS04-SMP13	6
Profile	P-20200	1
Flange Connection Module	FCM-R08	1

Note: For hard fabric layers (e.g., denim, etc.), it is recommended to install multiple soft beak grippers closely in rows.

Recommended Plan



GC –BMC20006[P]-CMS04-SMP13

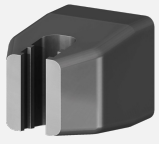


iPCU2-SMN *page. 79*

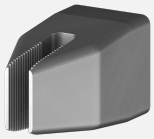
Integrated Passive Control Unit – Standard Model*

*: For other Control Units, see page. 402.

Soft Beak Options**



B-20006



B-20005V



B-20802



B-3B18

**: Soft beak shall be selected appropriately according to the weight, thickness, and hardness of different fabrics (page. 28) to ensure the stability of layered grasping.

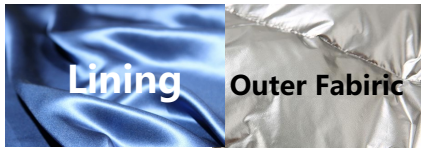
Applicable fabric











Gripper Combination

Scan to watch videos

GC

Fabric Handling Applications:

- The two-finger gripper can be used for layered grasping of thick and hard fabrics, such as wool textile, towel, carpet, etc. the gripper can be combined with customized bracket in series according to the shape of the fabric.



Customized gripper combination:

BOM List		
Product Name	Product code	Quantity
Gripper Combination	GC –2FMB4V5/FS3-SMP2S	2
Profile	P-20200	1
Flange Connection Module	FCM-R04	1

Recommended Plan



GC –2FMB4V5/FS3-SMP2S



iPCU2-SMN

page. 79

Integrated Passive Control Unit – Standard Model*

*: For other Control Units, see page. 402.

Optional Finger Module**



FM-A4V5/FS3



FM-B4V5/FS3



FM-C5V5/FS3

**: Finger modules shall be selected appropriately according to the weight, thickness, and hardness of different fabrics to ensure the stability of layered grasping.

Applicable fabric











Gripper Combination

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GC

Food Industry Applications

- Multi-finger centripetal gripper combination, suitable for spherical or square candy, pastry, or fruit.





page. 79

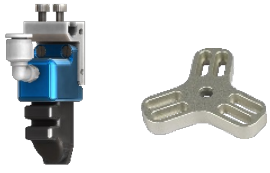
GC – 4FMA3V5/LS1 - SMP4S - FCMR02

iPCU2-HMN
Integrated Passive Control Unit – High-speed model*

*: For other Control Units, see page. 402.

When the grasped object changes, the finger module or slide mounting plate should be replaced according to the shape, volume, weight, and material of the grasped object to achieve the best grasping effect. For the selection of the finger module, please refer to Page. 38. For the selection of slide mounting plate, please refer to Page. 58.

Gripper Combination Plans



Finger Module: FM-B3V5/LS1
Slide Mounting Plate: SMP-3S



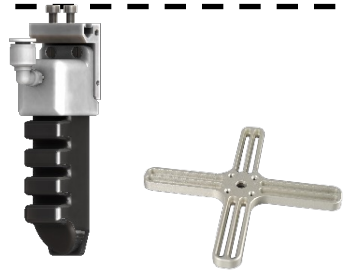
GC-3FMB3V5/LS1–SMP3S



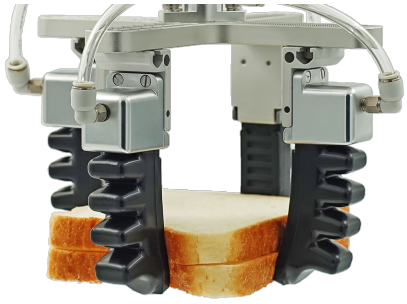
Finger Module: FM-A5V5/LS1



GC-4FMA5V5/LS1-SMP4S



Finger Module: FM-A5V5/LS1
Slide Mounting Plate: SMP-4L



GC-4FMA5V5/LS1-SMP4L



Gripper Combination

Scan to watch videos

GC

Food Industry Applications

- Multi-finger subtending gripper combination, suitable for the strip, oval-shaped fruit, food, etc.



GC-6FMA3V4/LS1-CP04-FCMR02



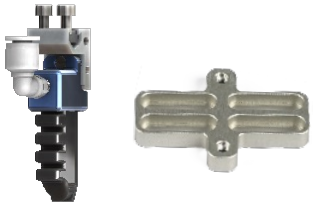
iPCU2-HMN *page. 79*

Integrated Passive Control Unit – High-speed model*

*: For other Control Units, see page. 402.

When the grasped object changes, the finger module or slide mounting plate should be replaced according to the shape, volume, weight, and material of the grasped object to achieve the best grasping effect. For the selection of the finger module, please refer to Page. 38. For the selection of slide mounting plate, please refer to Page. 58.

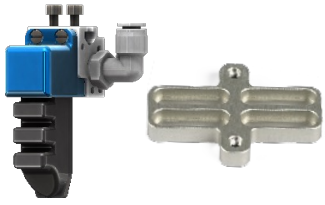
Gripper Combination Plans



Finger Module: FM-C5V5/LS1
Slide Mounting Plate: SMP-2S



GC-2FMC5V5/LS1-SMP2S



Finger Moule: FM-B4V4/LS1
Slide Mounting Plate: SMP-2S



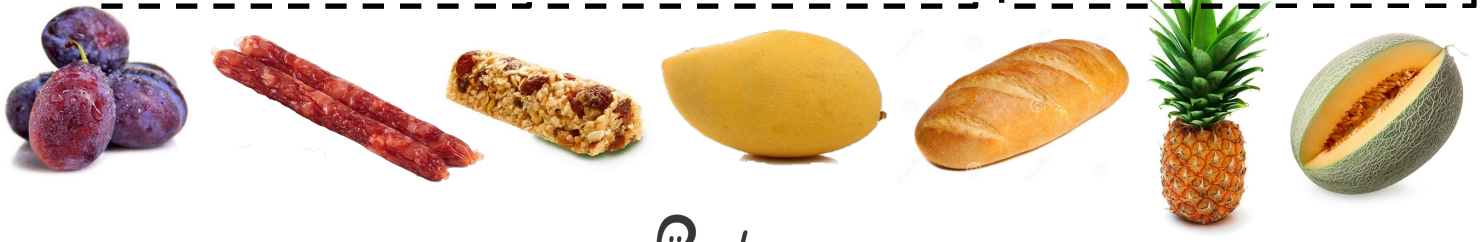
GC-4FMB4V4/LS1-SMP2S



Finger Module: FM-A6V4/LS1



GC-8FMA6V4/LS1[H]-CP04



BM / B

Beak Module/ Soft Beak

2



Bicuspid Soft Beak

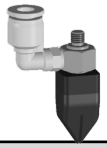
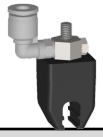
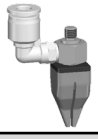
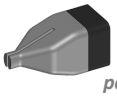
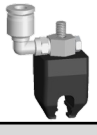


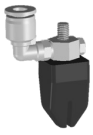
Tricuspid Soft Beak



Quadricuspid Soft Beak



		 page. 32
BMC-2V0401[P]/S	**BML-2V0401[P]/S**	**B-2V0401[P]/S**
		 page. 34
BMC-2051D5[P]/S	**BML-2051D5[P]/S**	**B-2051D5[P]/S**
		 page. 36
BMC-2076D5[P]/S	**BML-2076D5[P]/S**	**B-2076D5[P]/S**
		 page. 38
BMC-20005V[P]	**BML-20005V[P]**	**B-20005V[P]**
		 page. 40
BMC-20006[P]	**BML-20006[P]**	**B-20006[P]**
		 page. 42
BMC-20201[H]/S	**BML-20201[H]/S**	**B-20301[H]/S**
		 page. 44
BMC-20301[H]/S	**BML-20301[H]/S**	**B-20301[H]/S**
		 page. 46
BMC-20501[H]/S	**BML-20501[H]/S**	**B-20501[H]/S**
		 page. 48
BMC-20606[P]	**BML-20606[P]**	**B-20606[P]**

		 page. 50
BMC-20606[P]/M	**BML-20606[P]/M**	**B-20606[P]/M**
		 page. 52
BMC-20802[P]	**BML-20802[P]**	**B-20802[P]**
		 page.54
BMC-21413[P]	**BML-21413[P]**	**B-21413[P]**
		 page. 56
BMC-21606[P]/M	**BML-21606[P]/M**	**B-21606[P]/M**
		page. 58
BMC-21608P]	**BML-21608[P]**	**B-21608P]**
		page. 60
BMC-21812P]	**BML-21812[P]**	**B-21812P]**
		page. 62
BMC-21812P]	**BML-21812[P]**	**B-21812P]**
		page. 64
BMC-22219[P]/M	**BML-22219[P]/M**	**B-22219[P]/M**



		 page. 66
BMC-3A15[P]/S	**BML-3A15[P]/S**	**B-3A15[P]/S**
		 page. 68
BMC-3A18[P]/S	**BML-3A18[P]/S**	**B-3A18[P]/S**
		 page. 70
BMC-3A18[H]/S	**BML-3A18[H]/S**	**B-3A18[H]/S**
		 page.72
BMC-3B08[H]/S	**BML-3B08[H]/S**	**B-3B08[H]/S**
		 page. 74
BMC-3B10[H]/S	**BML-3B10[H]/S**	**B-3B10[H]/S**
		 page.76
BMC-3B12[H]/S	**BML-3B12[H]/S**	**B-3B12[H]/S**
		 page. 78
BMC-3B13[H]/S	**BML-3B13[H]/S**	**B-3B13[H]/S**
		 page. 80
BMC-3B14[P]/S	**BML-3B14[P]/S**	**B-3B14[P]/S**
		 page. 82
BMC-3B14[H]/S	**BML-3B14[H]/S**	**B-3B14[H]/S**

		 page. 84
BMC-3B18[P]/S	**BML-3B18[P]/S**	**B-3B18[P]/S**
		 page. 86
BMC-3B18[H]/S	**BML-3B18[H]/S**	**B-3B18[H]/S**
		 page. 88
BMC-3B24[H]/S	**BML-3B24[H]/S**	**B-3B24[H]/S**
		 page. 90
BMC-3C24[H]/S	**BML-3C24[H]/S**	**B-3C24[H]/S**



		 *page. 92*
BMC-4B18[P]	**BML-4B18[P]**	**B-4B18[P]**
		 *page. 94*
BMC-4B18[P]/S	**BML-4B18[P]/S**	**B-4B18[P]/S**
		 *page. 96*
BMC-4A24[H]/S	**BML-4A24[H]/S**	**B-4A24[H]/S**
		 *page. 98*
BMC-4A30[P]/M	**BML-4A30[P]/M**	**B-4A30[P]/M**
		 *page. 100*
BMC-4B30[H]/S	**BML-4B30[H]/S**	**B-4B30[H]/S**
		 *page. 102*
BMC-4B32[P]/S	**BML-4B32[P]/S**	**B-4B32[P]/S**
		 *page. 104*
BMC-4B32[H]/S	**BML-4B32[H]/S**	**B-4B32[H]/S**
		 *page. 106*
BMC-4B40[P]/S	**BML-4B40[P]/S**	**B-4B40[P]/S**
		 *page. 108*
BMC-4B40[H]/S	**BML-4B40[H]/S**	**B-4B40[H]/S**

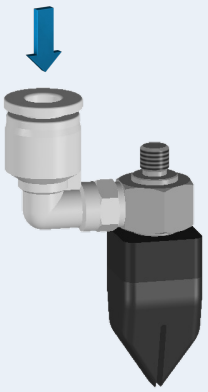
		 *page. 110*
BMC-4G40[H]/S	**BML-4G40[H]/S**	**B-4G40[H]/S**
		 *page. 112*
BMC-4B50[P]/S	**BML-4B50[P]/S**	**B-4B50[P]/S**
		 *page. 114*
BMC-4B70[P]/S	**BML-4B70[P]/S**	**B-4B70[P]/S**

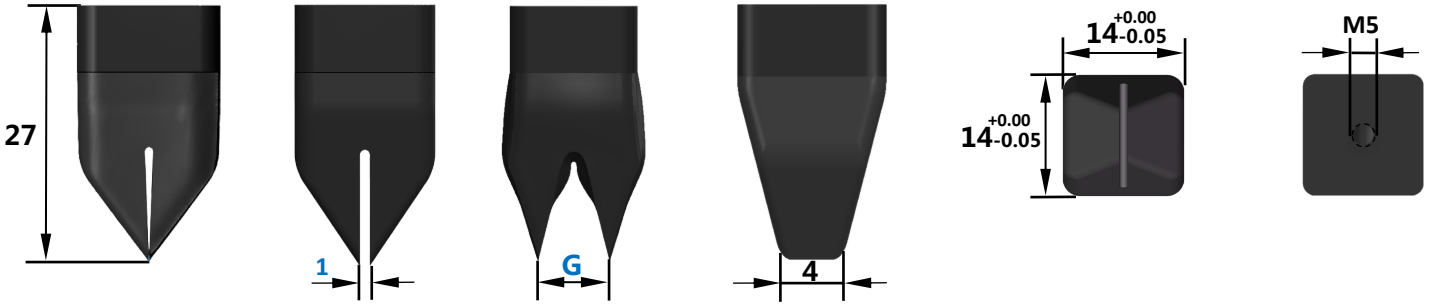
BM

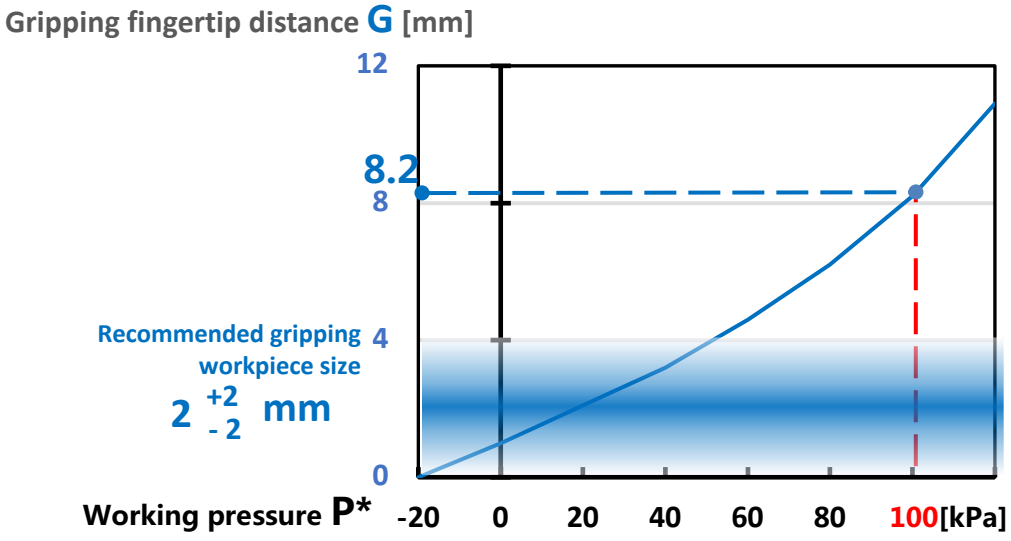
- **Product features**
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-2V0401[P]/S	**Side Fitting Normal Material BML-2V0401[P]/S**
Straight Fitting Dust-free Normal Material BMC-2V0401[PAS]/S	**Side Fitting Dust-free Normal Material BML-2V0401[PAS]/S**









Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	25g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.25N	Internal gripping force	×	BMC Weight	8g	BML Weight	17g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

https://rochu.partcommunity.com/3d-cad-models/

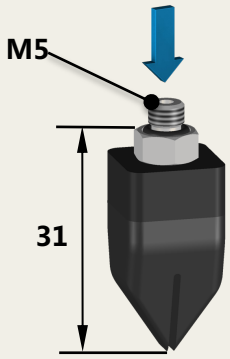
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Installation

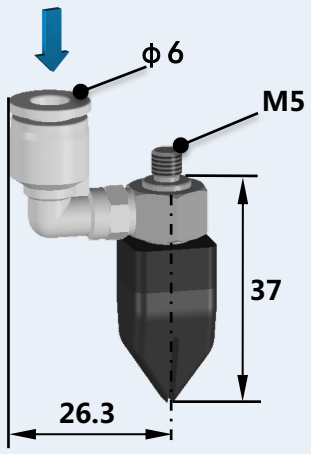
Straight Fitting
Normal Materia
BMC-2V0401[P]/S

Straight Fitting
Dust-free Normal Material
BMC-2V0401[PAS]/S

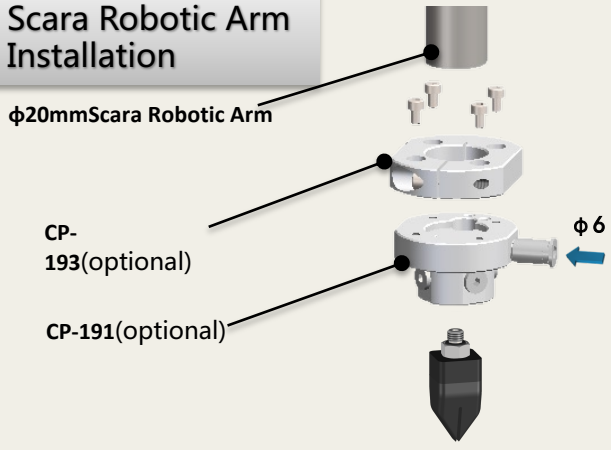


Side Fitting
Normal Material
BML-2V0401[P]/S

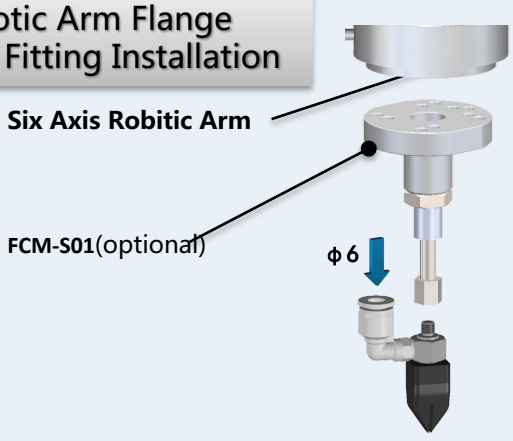
Side Fitting
Dust-free Normal Material
BML-2V0401[PAS]/S



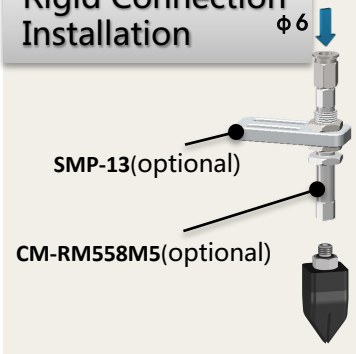
Scara Robotic Arm Installation



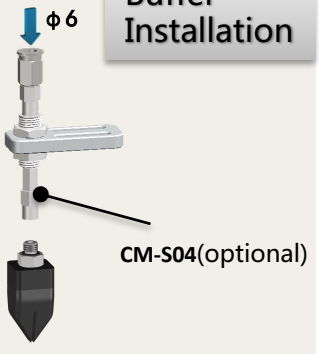
Robotic Arm Flange Side Fitting Installation



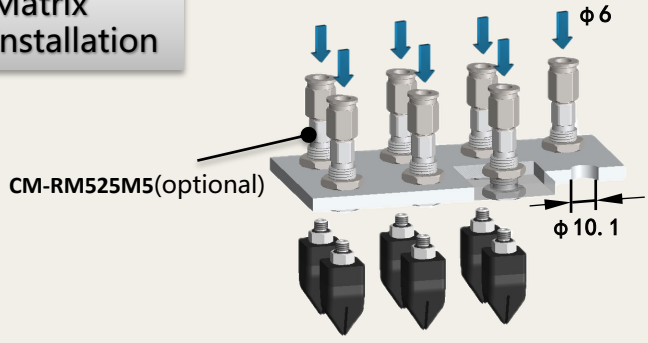
Rigid Connection Installation



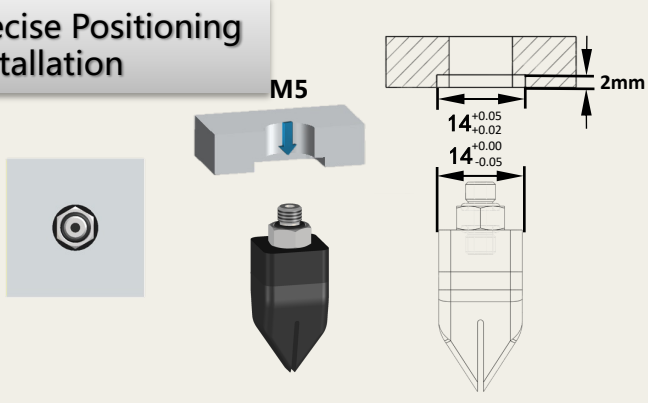
Buffer Installation



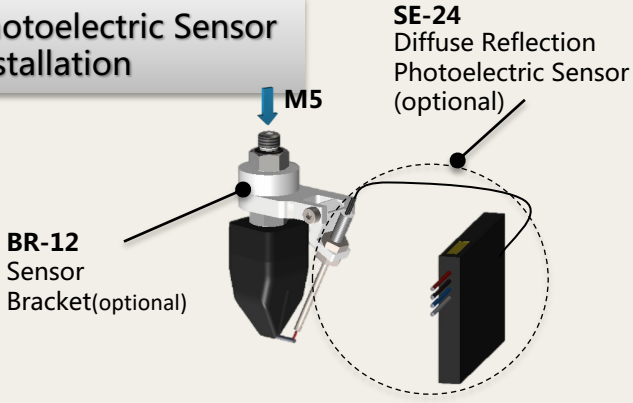
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

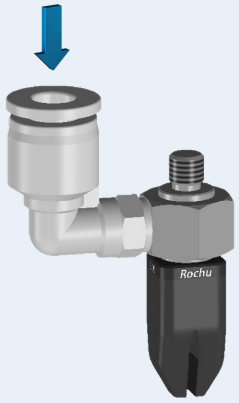
Straight Fitting
Normal Materia
BMC-2051D5[P]/S

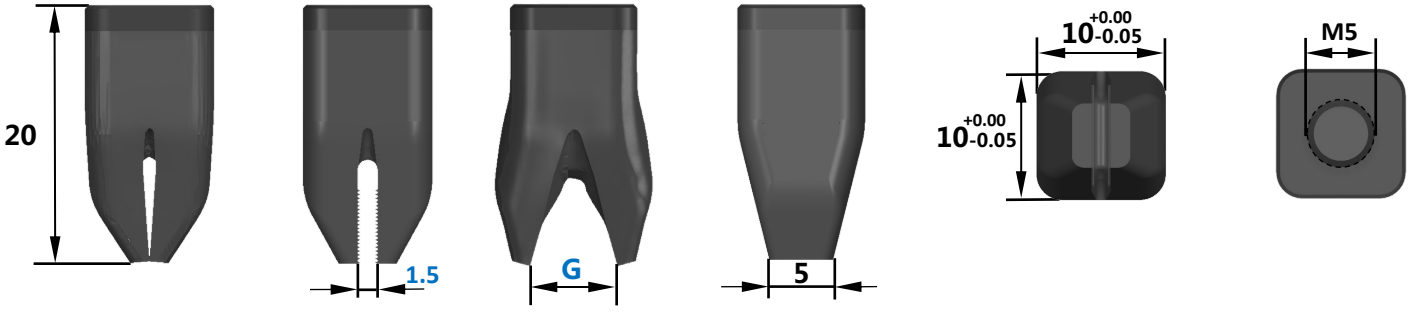
Straight Fitting
Dust-free Normal Material
BMC-2051D5[PAS]/S



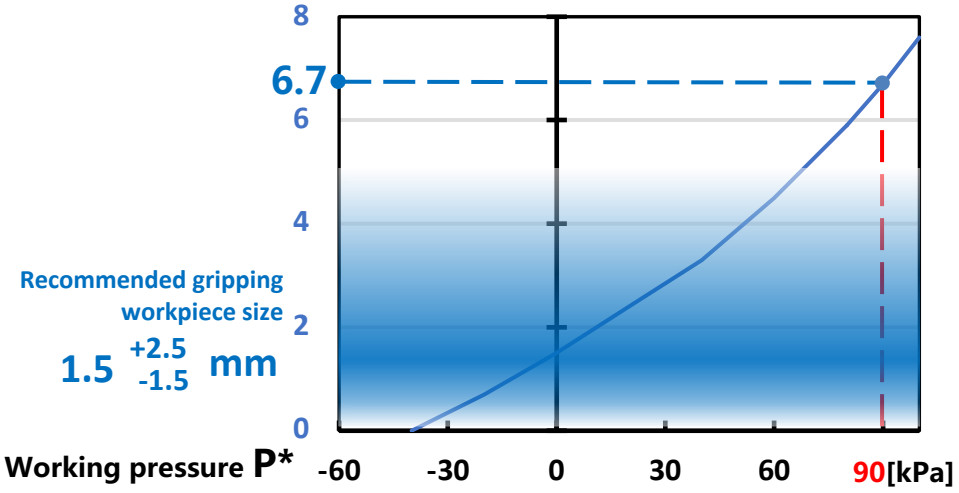
Side Fitting
Normal Material
BML-2051D5[P]/S

Side Fitting
Dust-free Normal Material
BML-2051D5[PAS]/S





Gripping fingertip distance **G** [mm]



Parameter

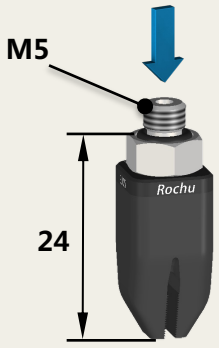
Repetitive Precision	±0.05mm	Recommend -ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+90kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	×	BMC Weight	3.7g	BML Weight	13g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

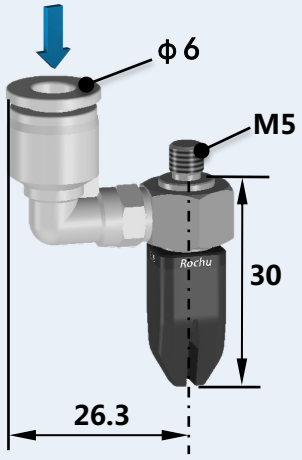
Straight Fitting
Normal Materia
BMC-2051D5[P]/S

Straight Fitting
Dust-free Normal Material
BMC-2051D5[PAS]/S



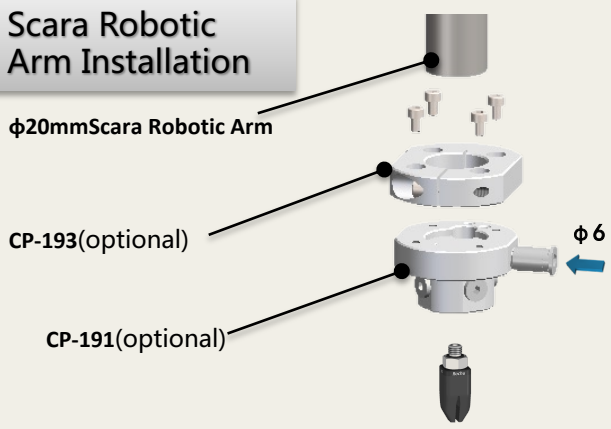
Side Fitting
Normal Material
BML-2051D5[P]/S

Side Fitting
Dust-free Normal Material
BML-2051D5[PAS]/S

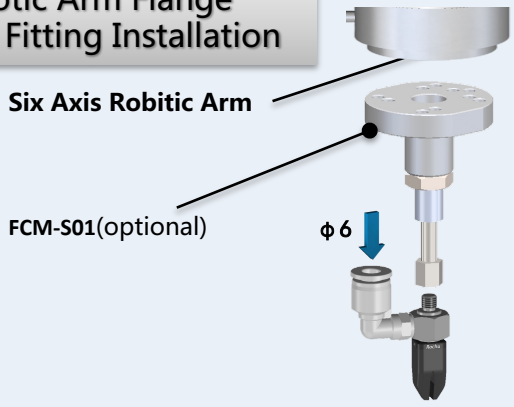


BM

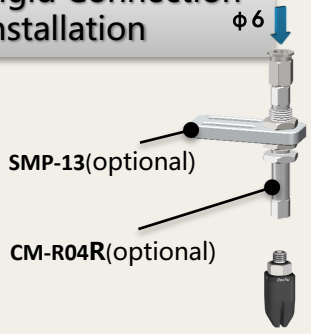
Scara Robotic Arm Installation



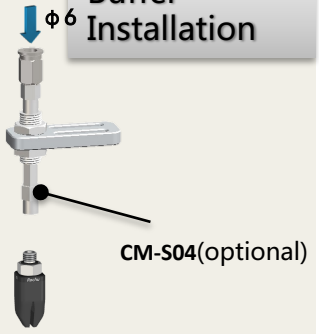
Robotic Arm Flange Side Fitting Installation



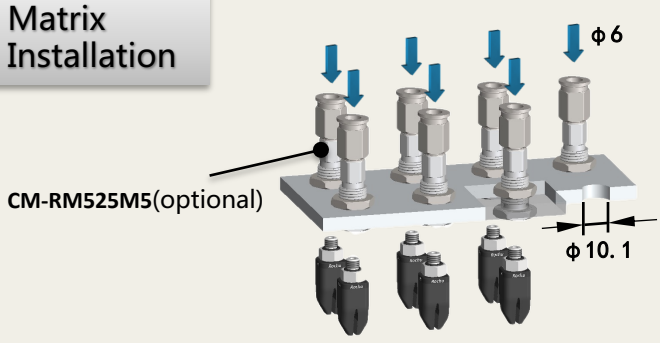
Rigid Connection Installation



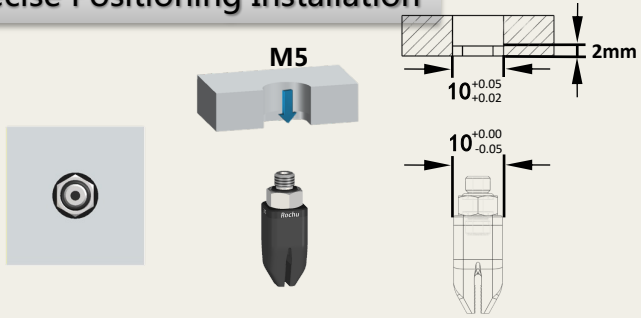
Buffer Installation



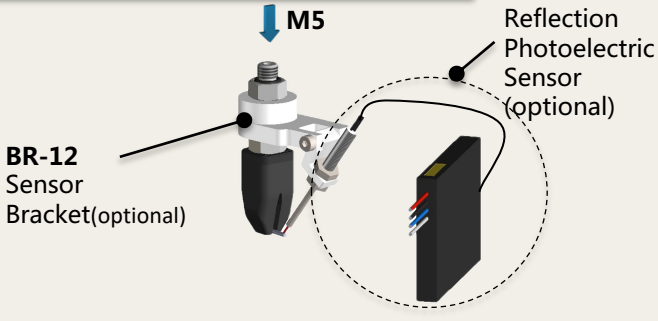
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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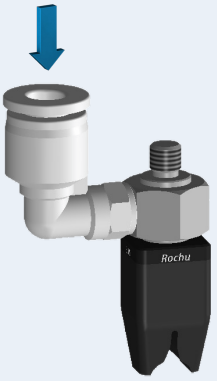
BM

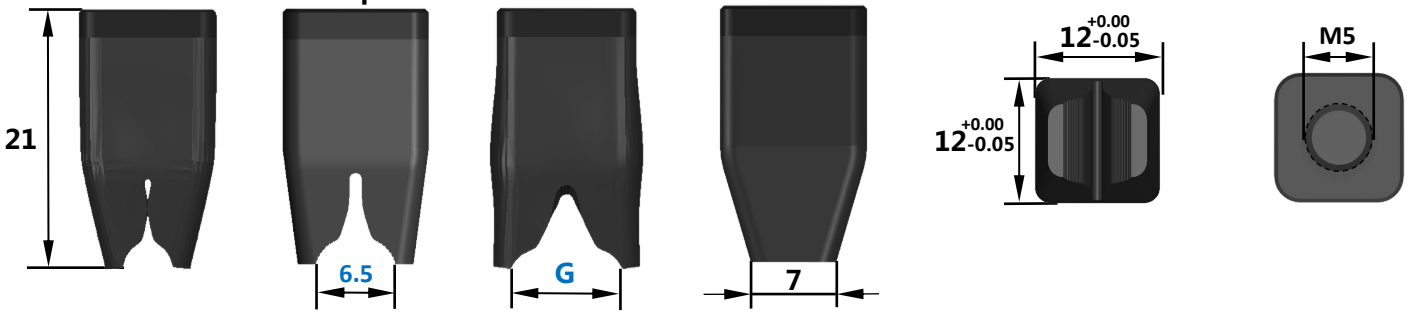
Product features

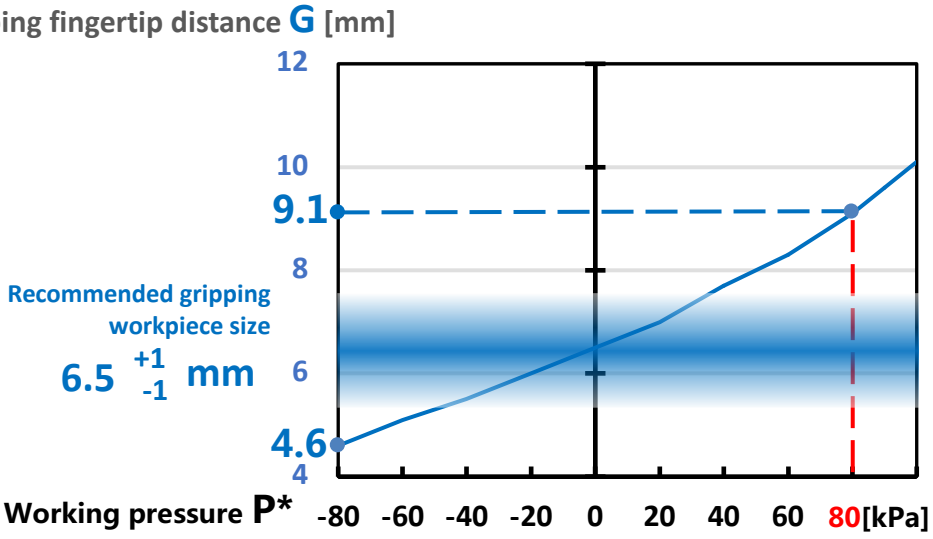
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-2076D5[P]/S	Side Fitting Normal Material BML-2076D5[P]/S
Straight Fitting Dust-free Normal Material BMC-2076D5[PAS]/S	Side Fitting Dust-free Normal Material BML-2076D5[PAS]/S









Parameter

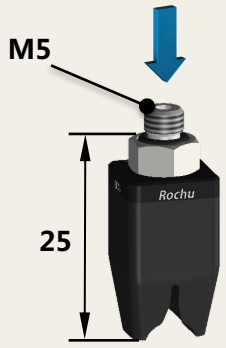
Repetitive Precision	±0.05mm	Recommend -ed Load	7g	Lifetime	1.5million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.07N	Internal gripping force	×	BMC Weight	6g	BML Weight	15g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

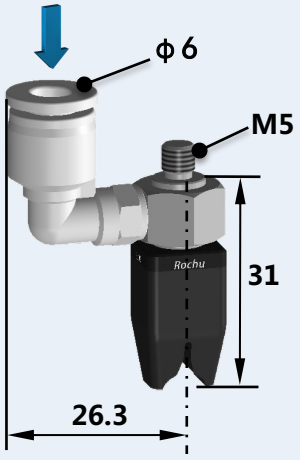
Straight Fitting
Normal Materia
BMC-2076D5[P]/S

Straight Fitting
Dust-free Normal Material
BMC-2076D5[PAS]/S



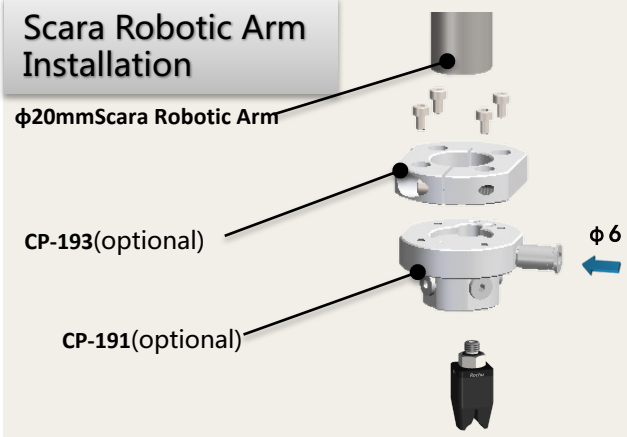
Side Fitting
Normal Material
BML-2076D5[P]/S

Side Fitting
Dust-free Normal Material
BML-2076D5[PAS]/S

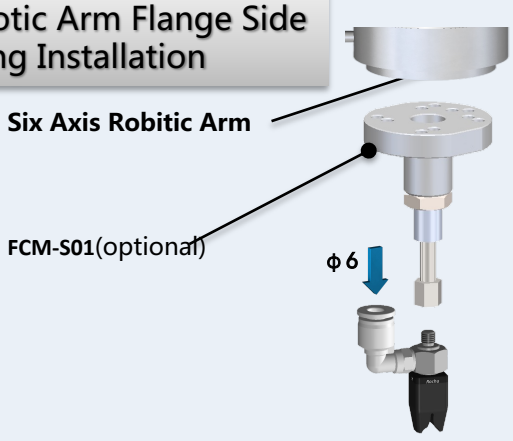


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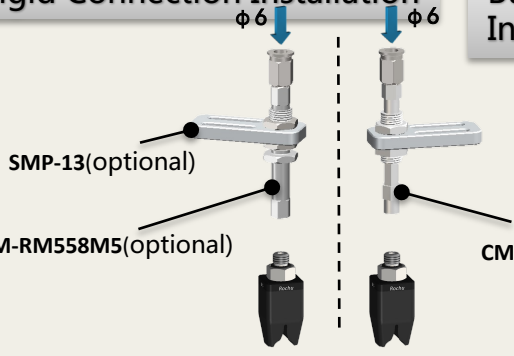
Scara Robotic Arm Installation



Robotic Arm Flange Side Fitting Installation

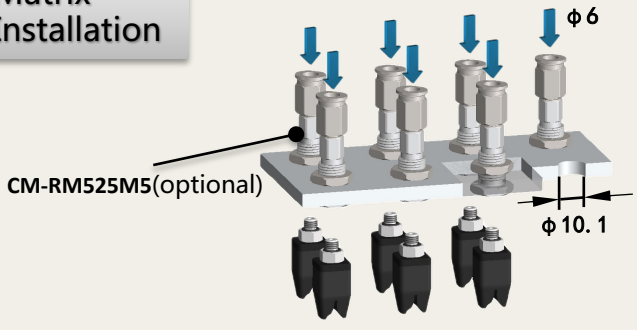


Rigid Connection Installation

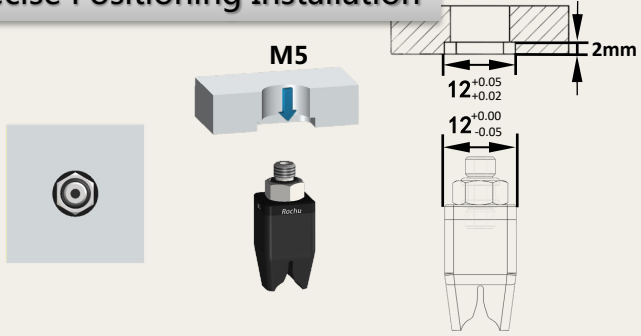


Buffer Installation

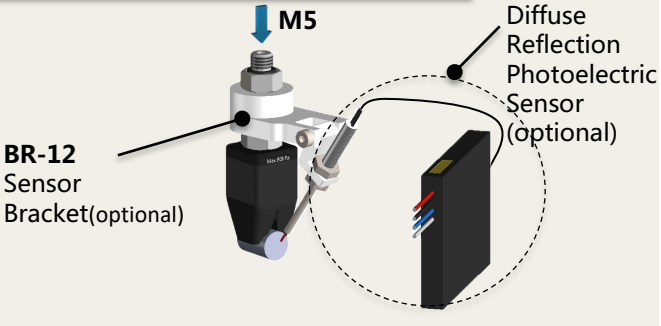
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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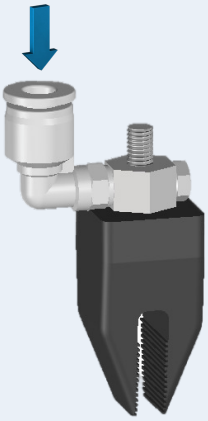
Product features

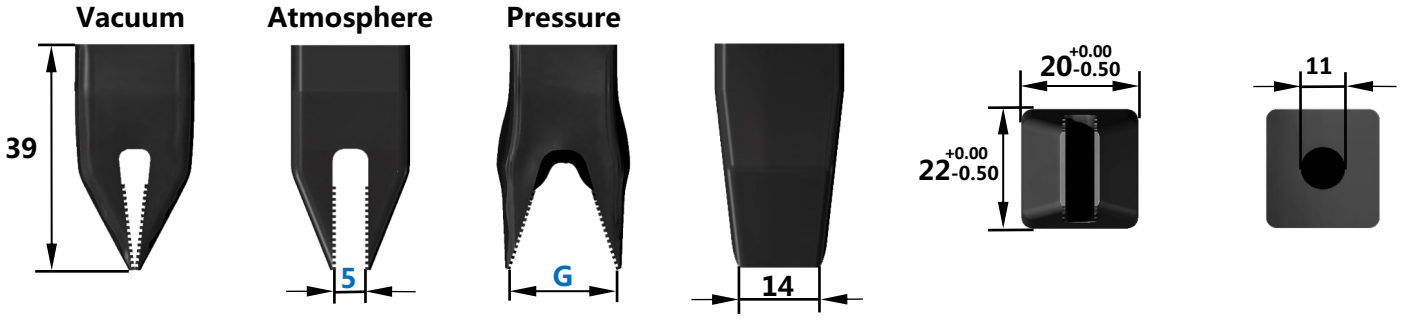
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

BM

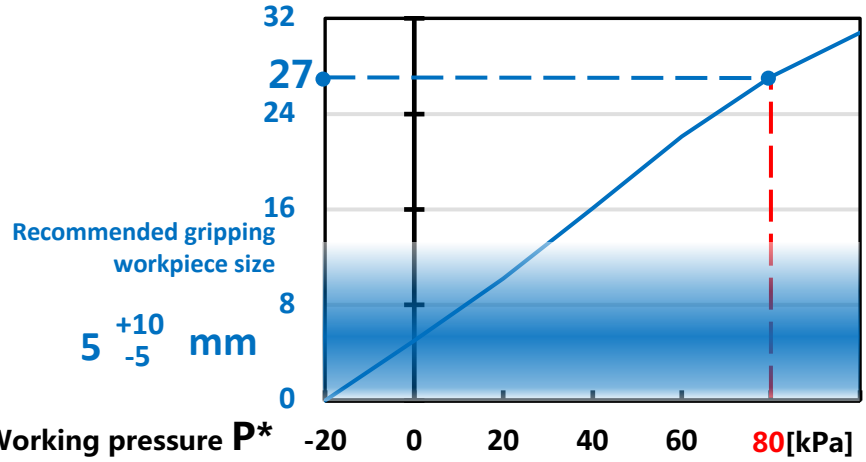
Straight Fitting **Normal Materia** **BMC-20005V[P]**	**Side Fitting** **Normal Material** **BML-20005V[P]**
Straight Fitting **Dust-free Normal Material** **BMC-20005V[PAS]**	**Side Fitting** **Dust-free Normal Material** **BML-20005V[PAS]**







Gripping fingertip distance **G** [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	×	BMC Weight	18g	BML Weight	27.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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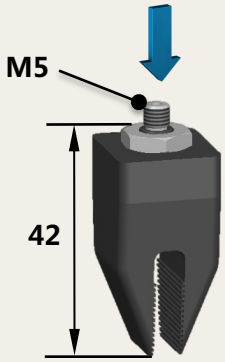
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Installation

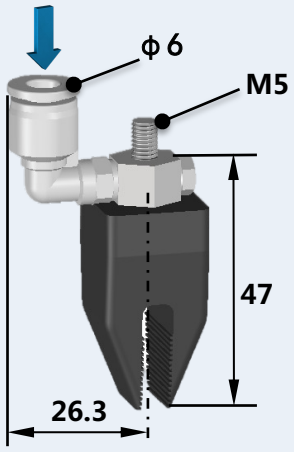
Straight Fitting
Normal Materia
BMC-20005V[P]

Straight Fitting
Dust-free Normal Material
BMC-20005V[PAS]



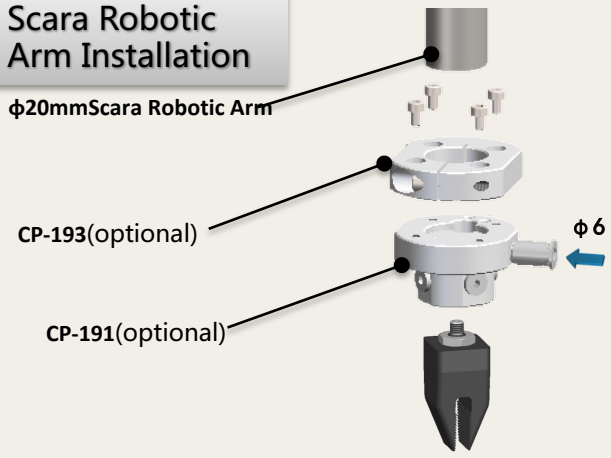
Side Fitting
Normal Material
BML-20005V[P]

Side Fitting
Dust-free Normal Material
BML-20005V[PAS]

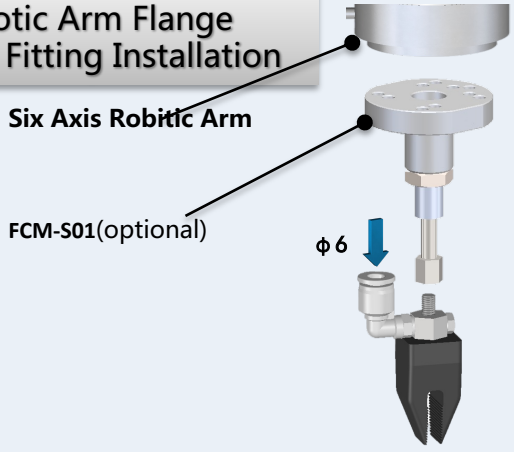


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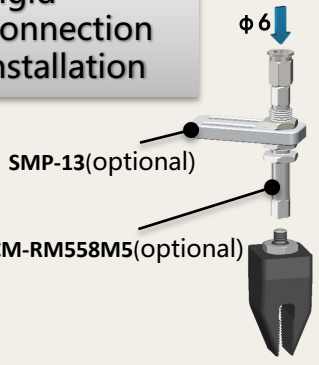
Scara Robotic Arm Installation



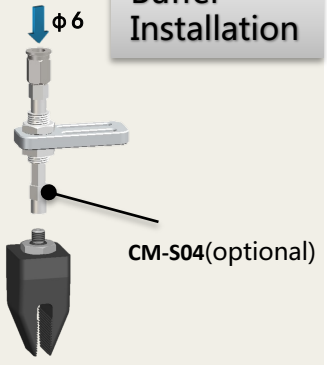
Robotic Arm Flange Side Fitting Installation



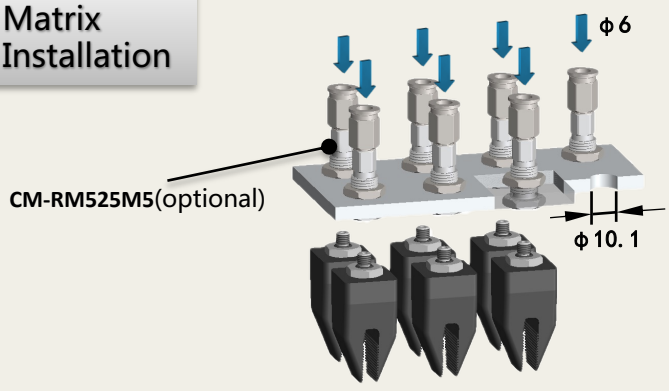
Rigid Connection Installation



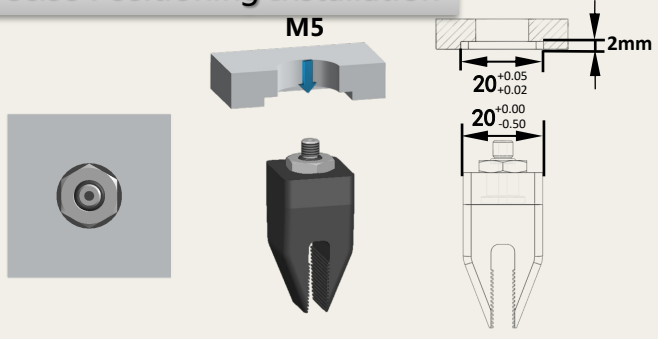
Buffer Installation



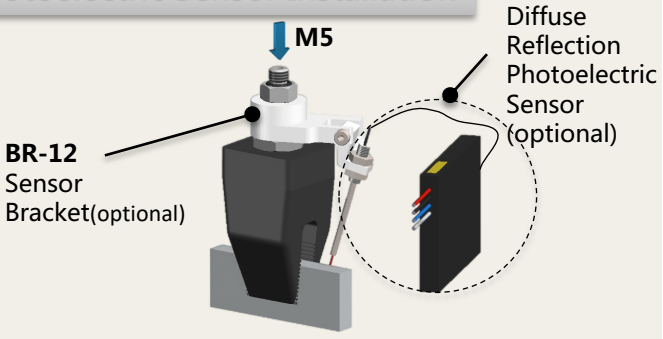
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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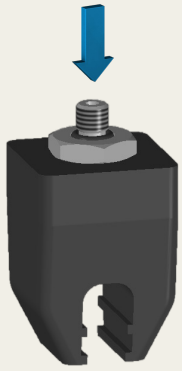
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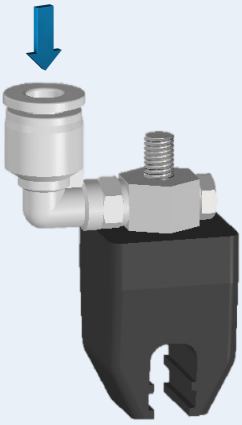
BM

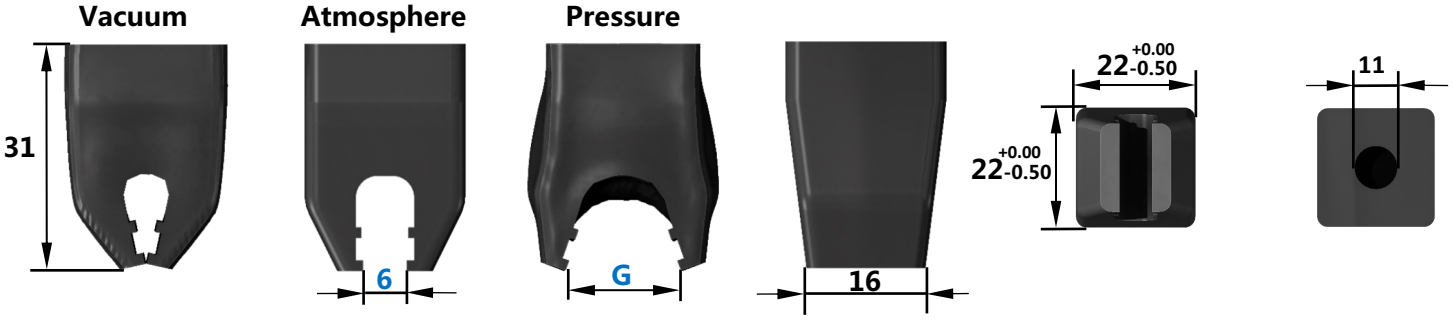
Product features

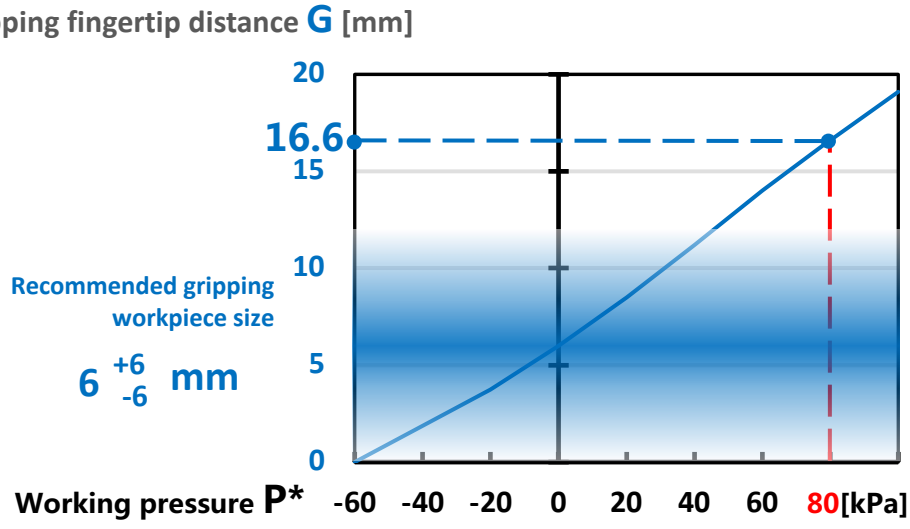
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Straight Fitting Normal Materia BMC-20006[P]	**Side Fitting Normal Material BML-20006[P]**
Straight Fitting Dust-free Normal Material BMC-20006[PAS]	**Side Fitting Dust-free Normal Material BML-20006[PAS]**









Parameter

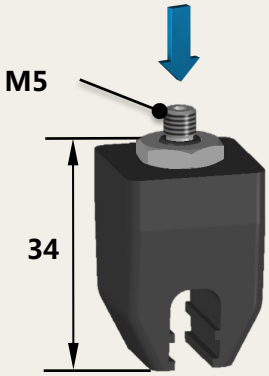
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	×	BMC Weight	18g	BML Weight	22.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

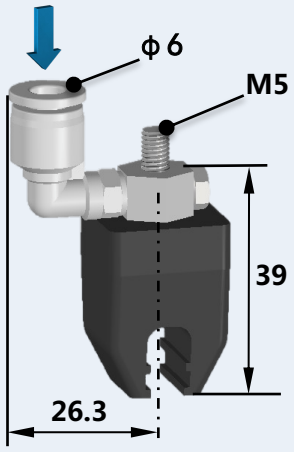
Straight Fitting
Normal Materia
BMC-20006[P]

Straight Fitting
Dust-free Normal Material
BMC-20006[PAS]



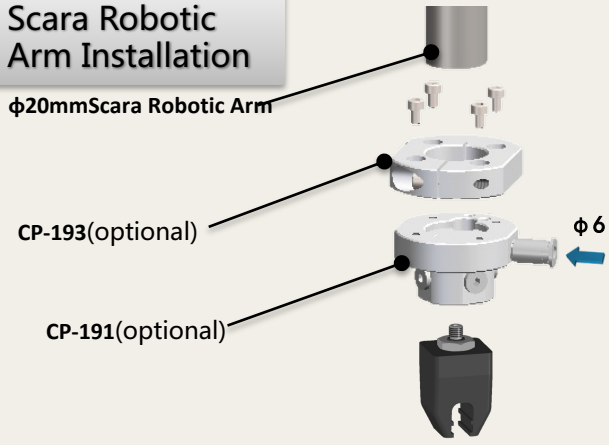
Side Fitting
Normal Material
BML-20006[P]

Side Fitting
Dust-free Normal Material
BML-20006[PAS]

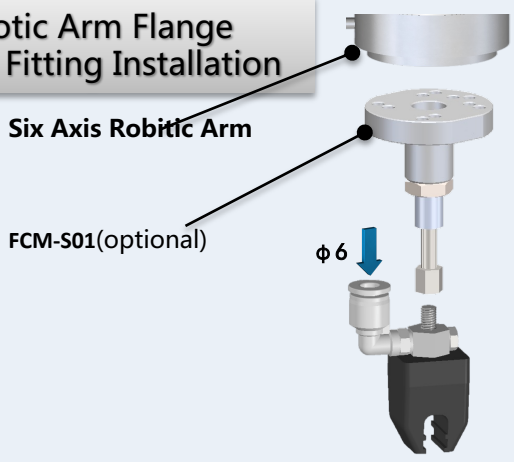


BM

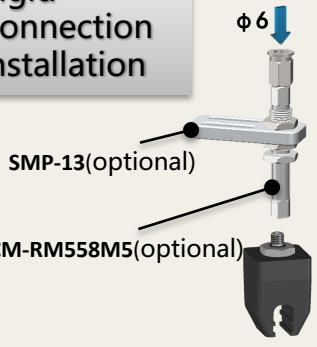
Scara Robotic Arm Installation



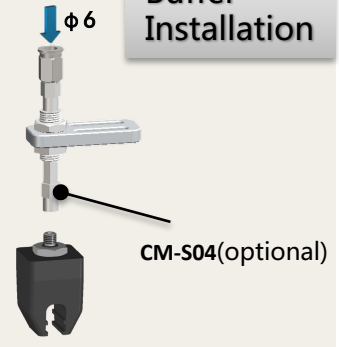
Robotic Arm Flange Side Fitting Installation



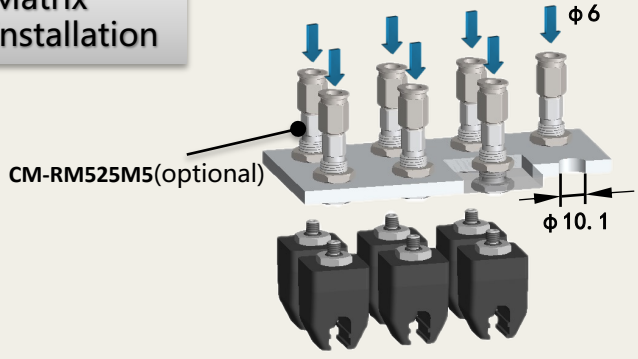
Rigid Connection Installation



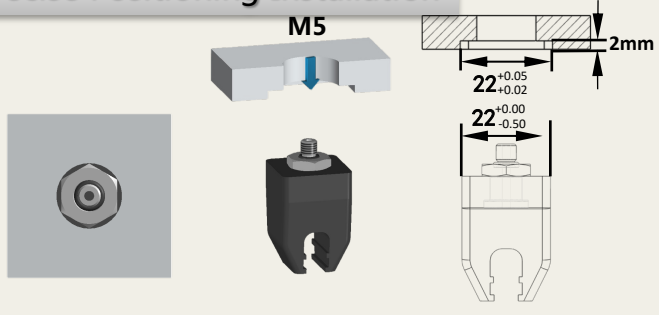
Buffer Installation



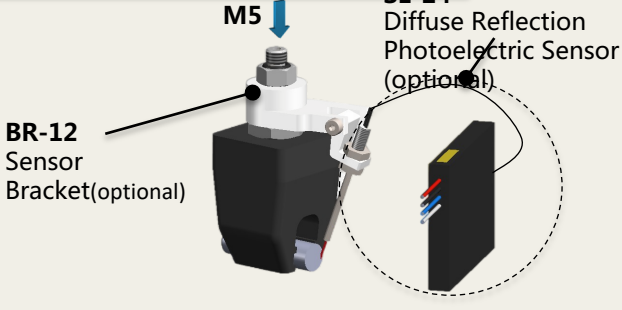
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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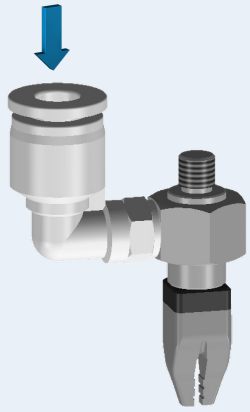
BM

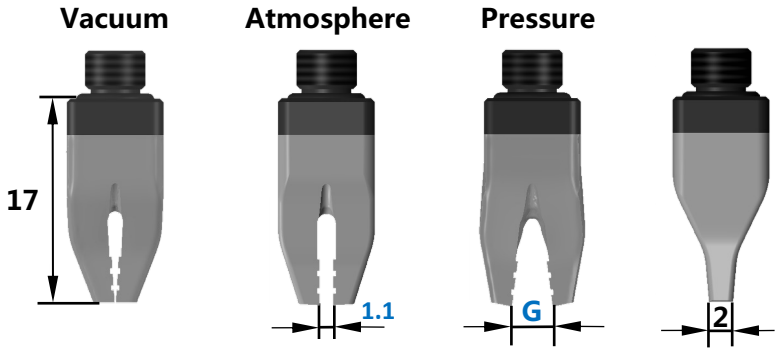
Product features

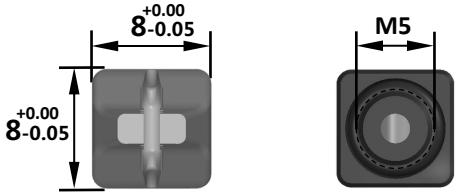
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

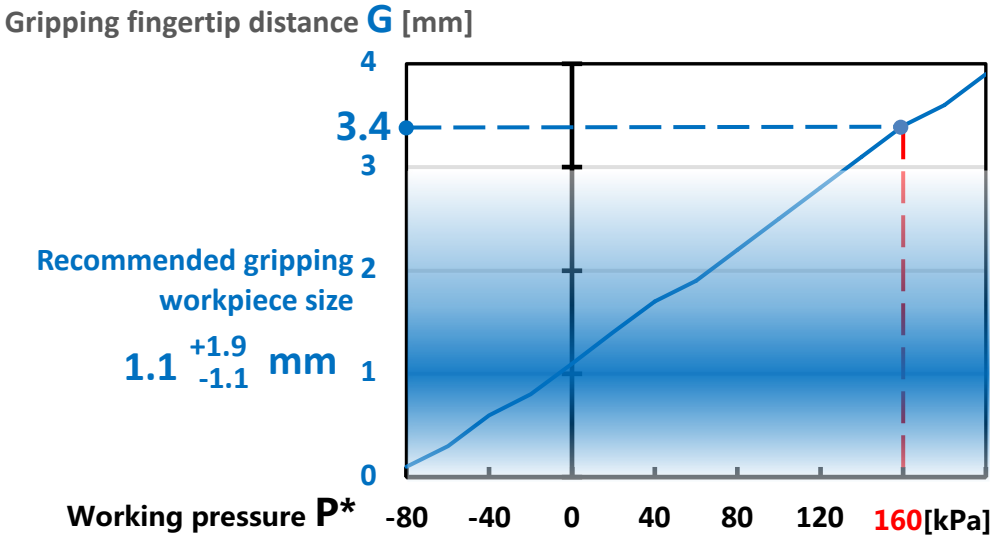
Straight Fitting **Normal Materia** **BMC-20201[H]/S**	**Side Fitting** **Normal Material** **BML-20201[H]/S**
Straight Fitting **Dust-free Normal Material** **BMC-20201[HAS]/S**	**Side Fitting** **Dust-free Normal Material** **BML-20201[HAS]/S**











Parameter

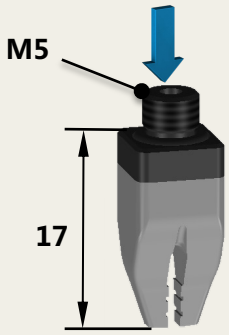
Repetitive Precision	±0.05mm	Recommend -ed Load	10g	Lifetime	1.5 million times*	Safe Pressure	+160kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.1N	Internal gripping force	×	BMC Weight	2.5g	BML Weight	14.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

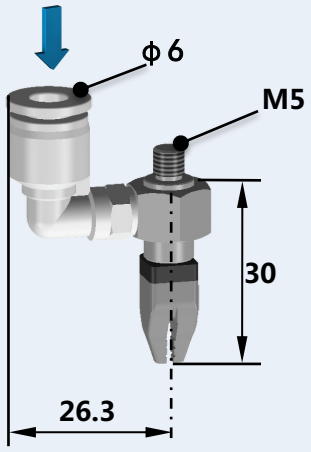
Straight Fitting
Normal Materia
BMC-20201[H]/S

Straight Fitting
Dust-free Normal Material
BMC-20201[HAS]/S

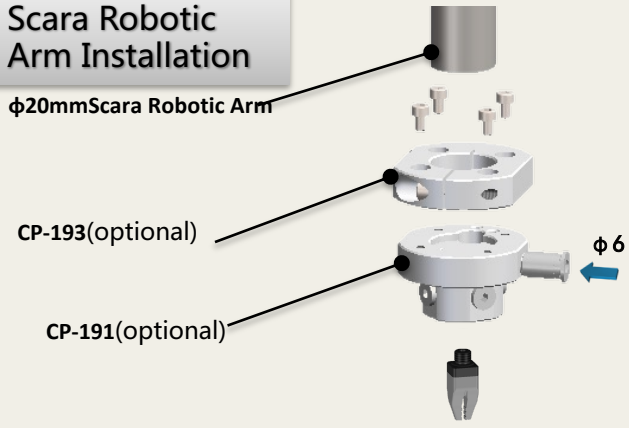


Side Fitting
Normal Material
BML-20201[H]/S

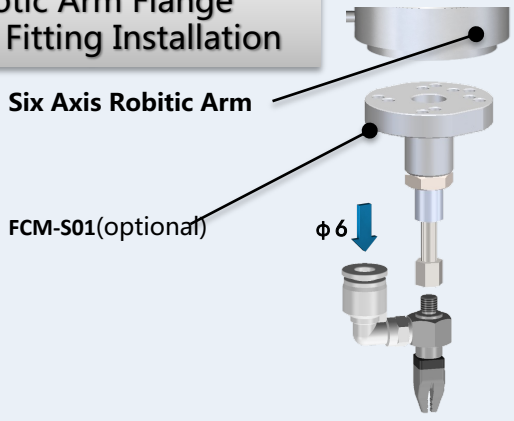
Side Fitting
Dust-free Normal Material
BML-20201[HAS]/S



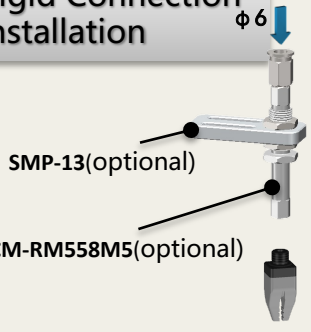
Scara Robotic Arm Installation



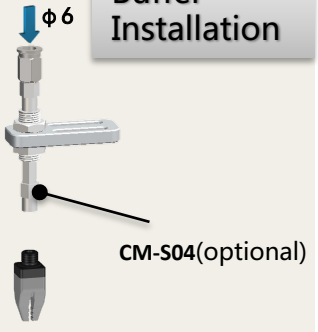
Robotic Arm Flange Side Fitting Installation



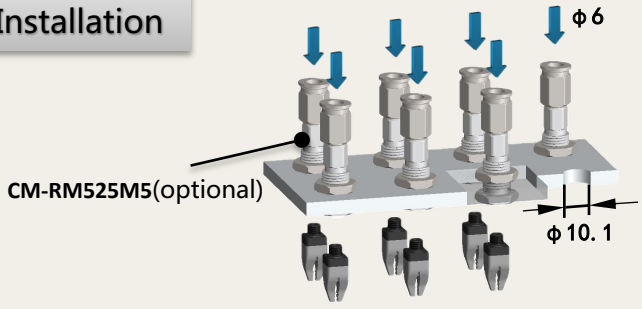
Rigid Connection Installation



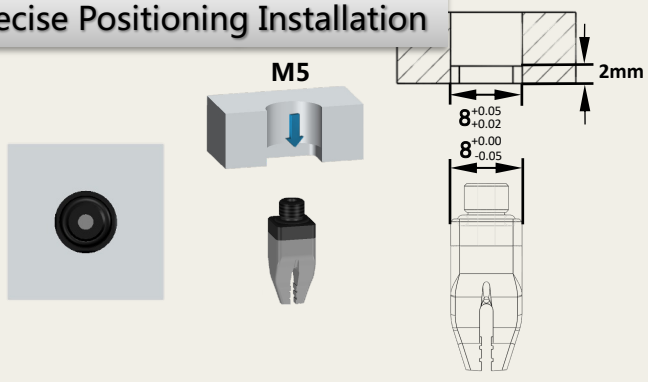
Buffer Installation



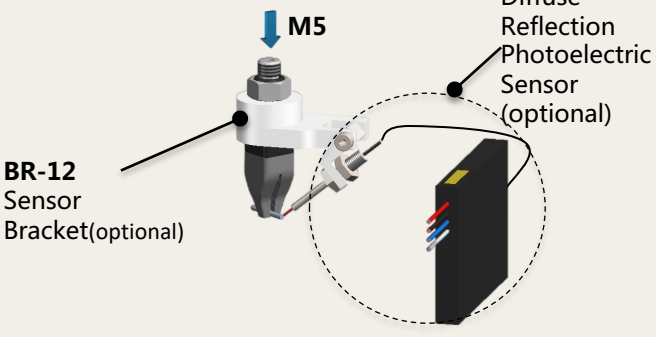
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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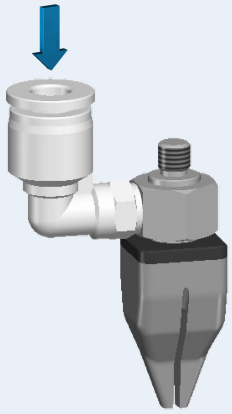
BM

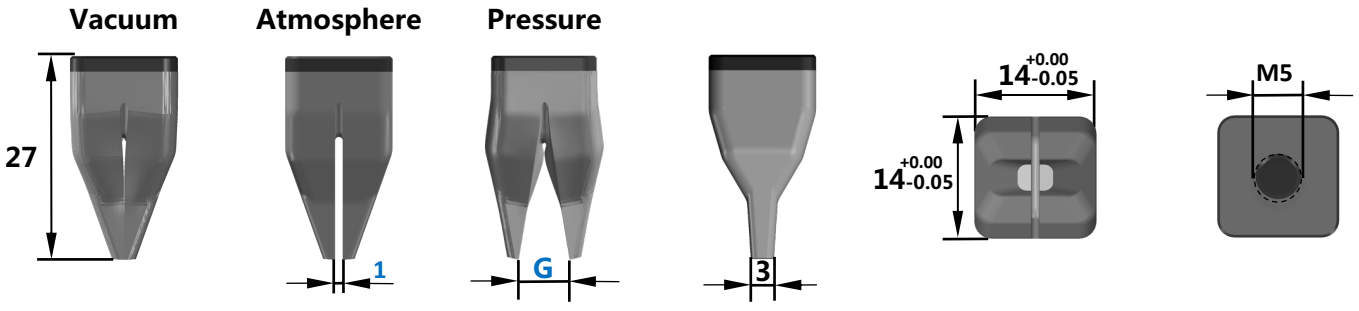
Product features

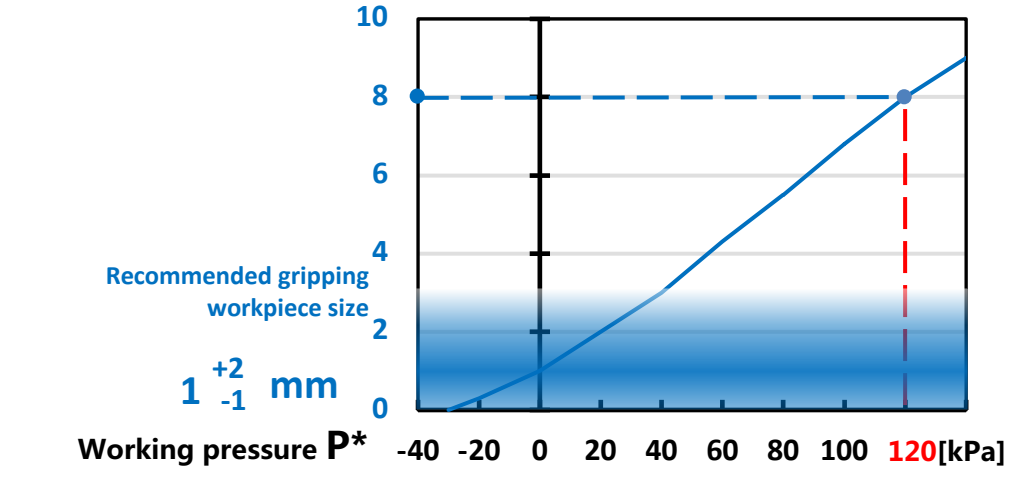
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

Straight Fitting Normal Materia BMC-20301[H]/S	**Side Fitting Normal Material BML-20301[H]/S**
Straight Fitting Dust-free Normal Material BMC-20301[HAS]/S	**Side Fitting Dust-free Normal Material BML-20301[HAS]/S**









Parameter

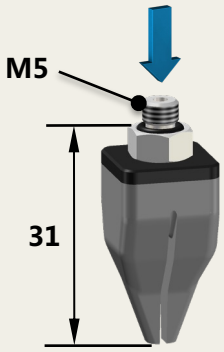
Repetitive Precision	±0.05mm	Recommend -ed Load	25g	Lifetime	1.5 million times*	Safe Pressure	+120kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.25N	Internal gripping force	×	BMC Weight	6g	BML Weight	15.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

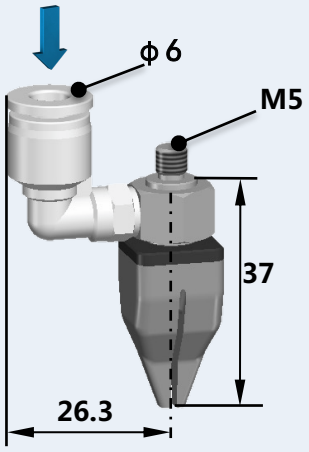
Straight Fitting
Normal Materia
BMC-20301[H]/S

Straight Fitting
Dust-free Normal Material
BMC-20301[HAS]/S



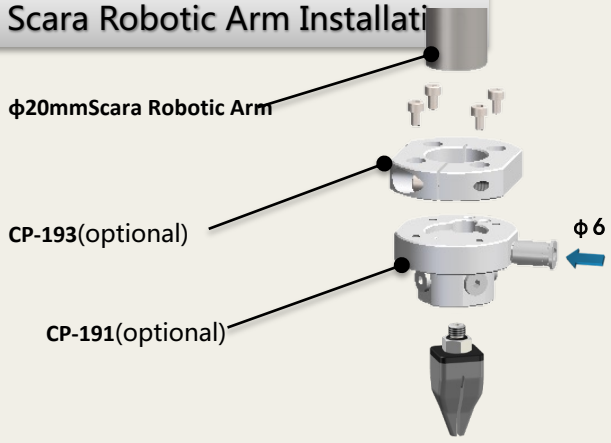
Side Fitting
Normal Material
BML-20301[H]/S

Side Fitting
Dust-free Normal Material
BML-20301[HAS]/S

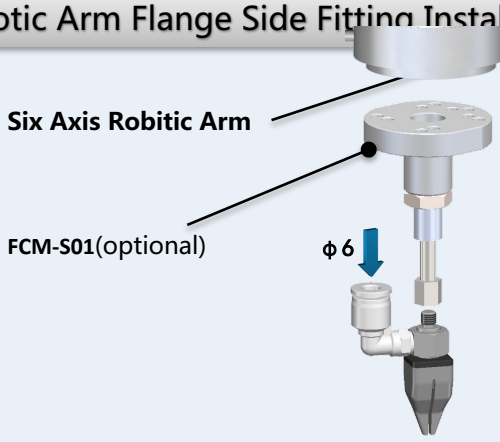


BM

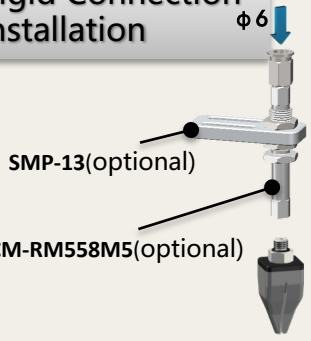
Scara Robotic Arm Installati



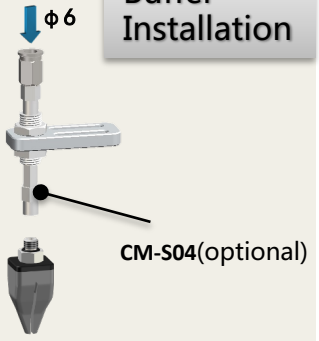
Robotic Arm Flange Side Fitting Installation



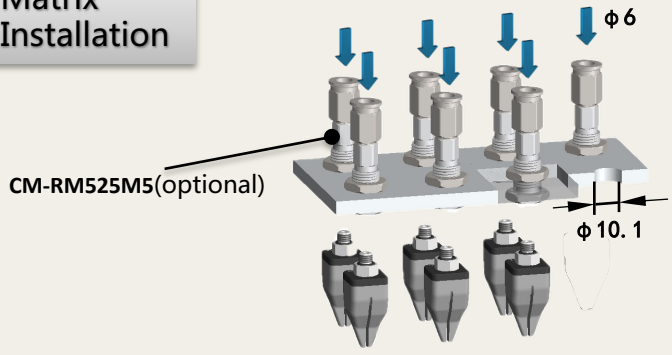
Rigid Connection Installation



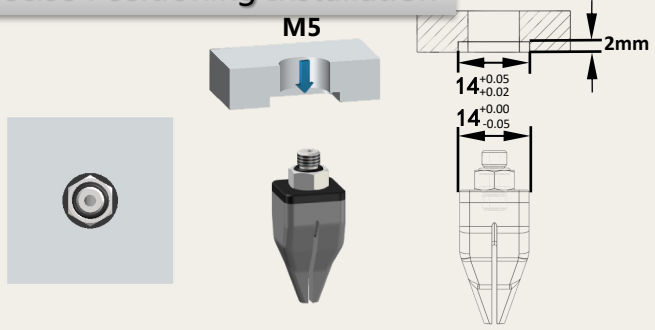
Buffer Installation



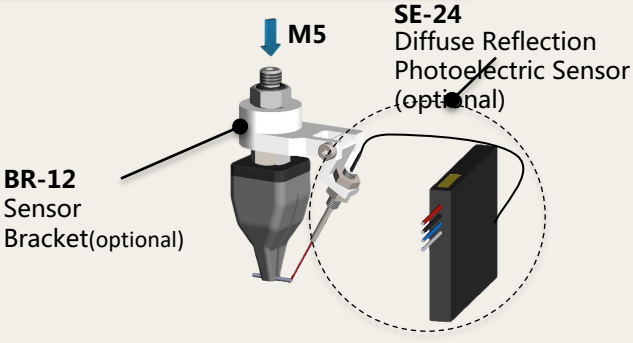
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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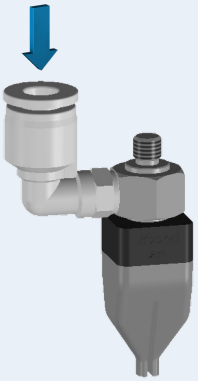
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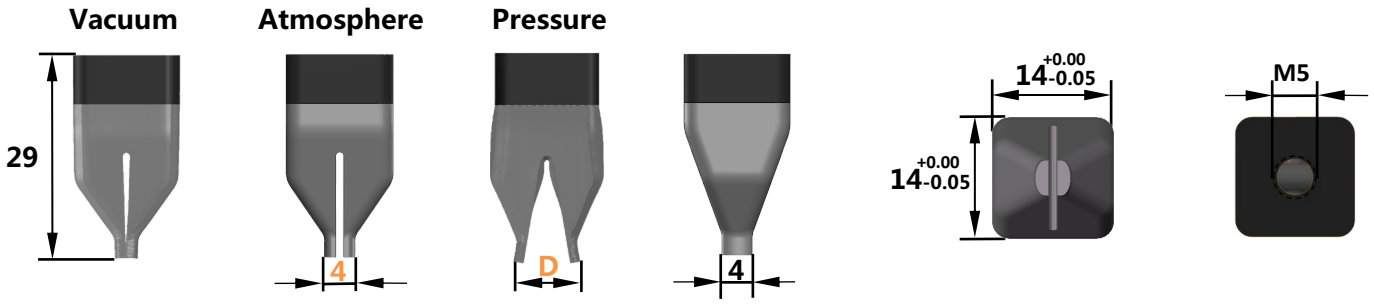
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [H] and Dust-free Normal Material [HAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [HAS] is preferred.

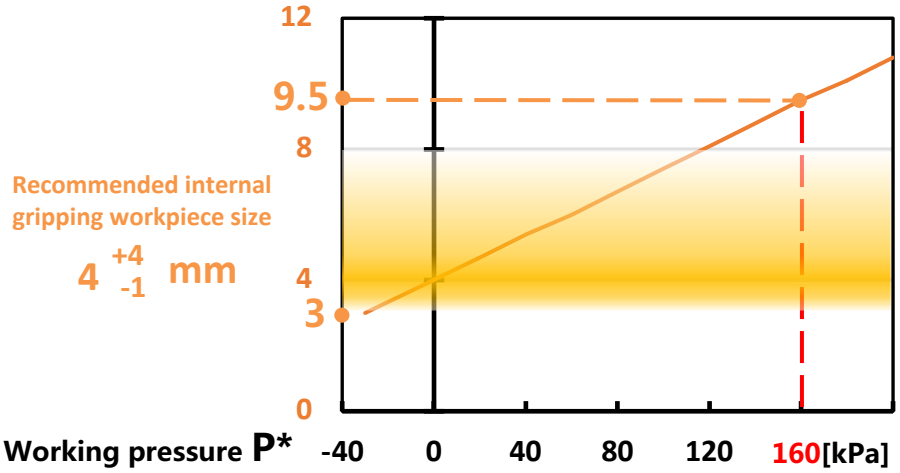
Straight Fitting Normal Materia BMC-20501[H]/S	**Side Fitting Normal Material BML-20501[H]/S**
Straight Fitting Dust-free Normal Material BMC-20501[HAS]/S	**Side Fitting Dust-free Normal Material BML-20501[HAS]/S**







Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	5g	Lifetime	1.5 million times*	Safe Pressure	+160kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.05N	BMC Weight	7g	BML Weight	16g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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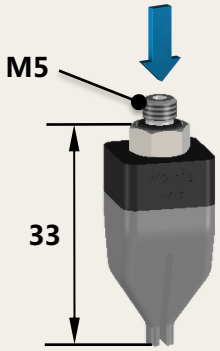
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Installation

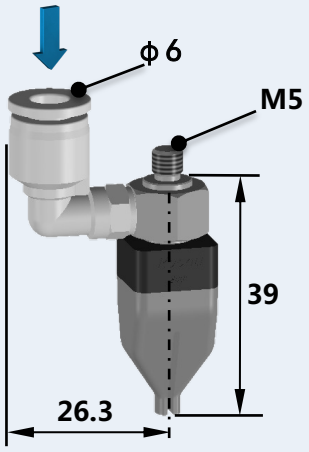
Straight Fitting
Normal Materia
BMC-20501[H]/S

Straight Fitting
Dust-free Normal Material
BMC-20501[HAS]/S



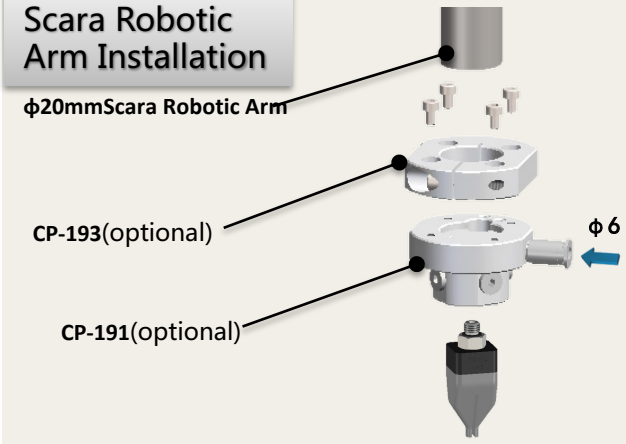
Side Fitting
Normal Material
BML-20501[H]/S

Side Fitting
Dust-free Normal Material
BML-20501[HAS]/S

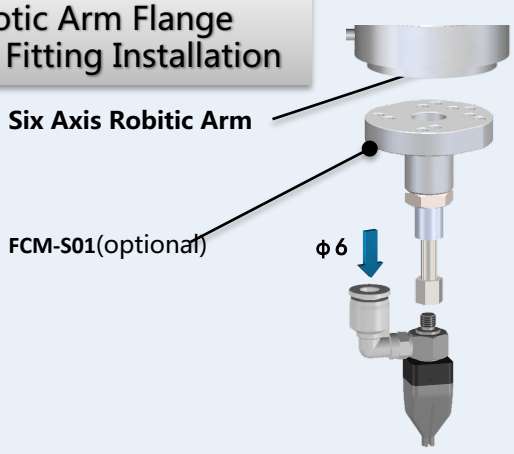


BM

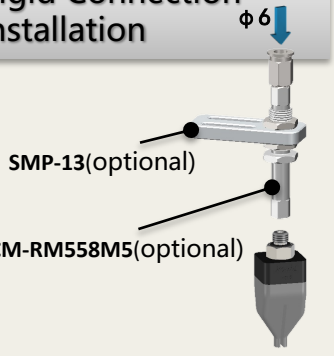
Scara Robotic Arm Installation



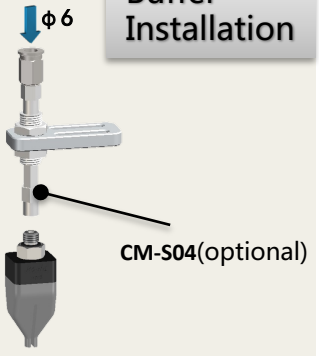
Robotic Arm Flange Side Fitting Installation



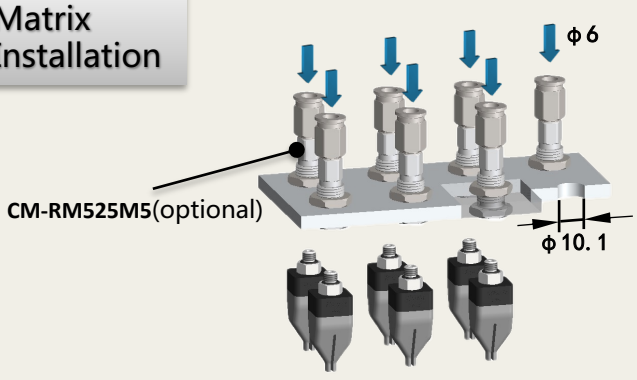
Rigid Connection Installation



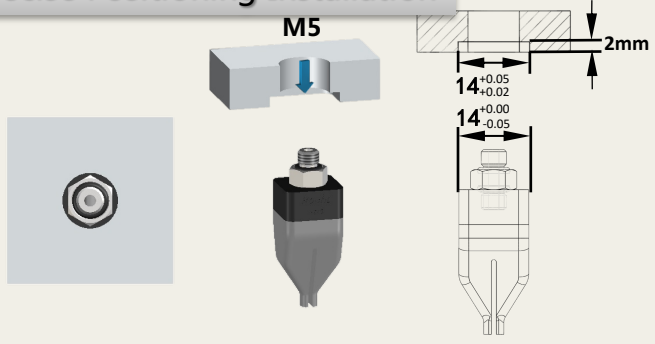
Buffer Installation



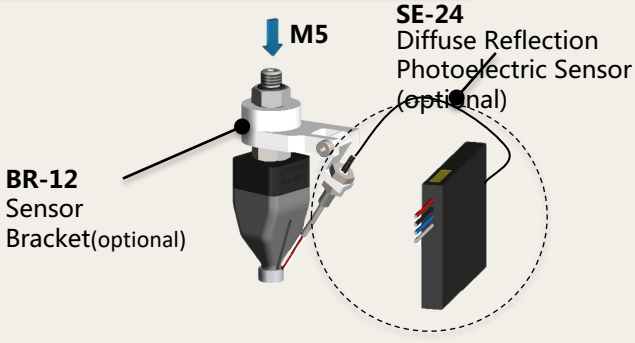
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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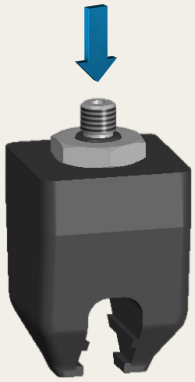
Scan to watch videos

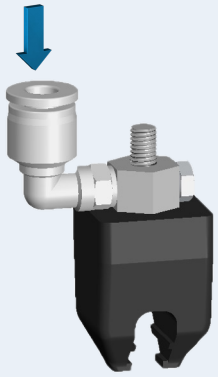
BM

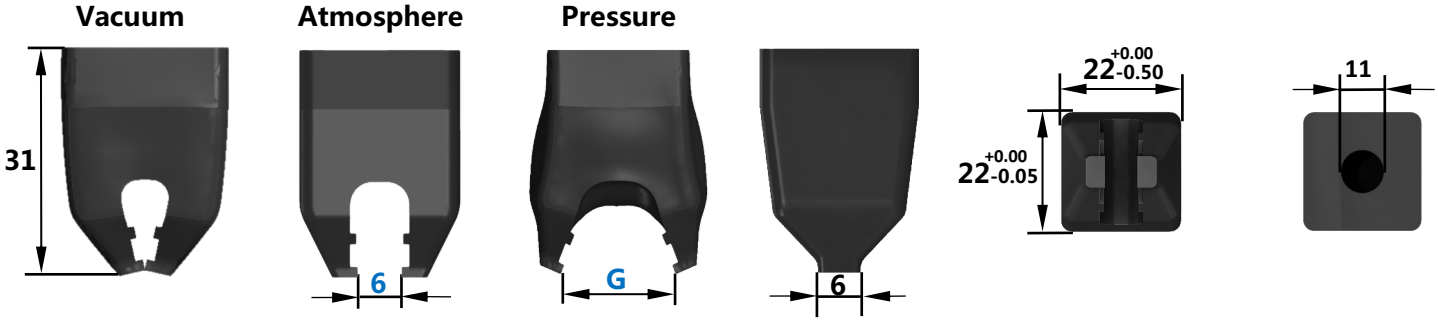
Product features

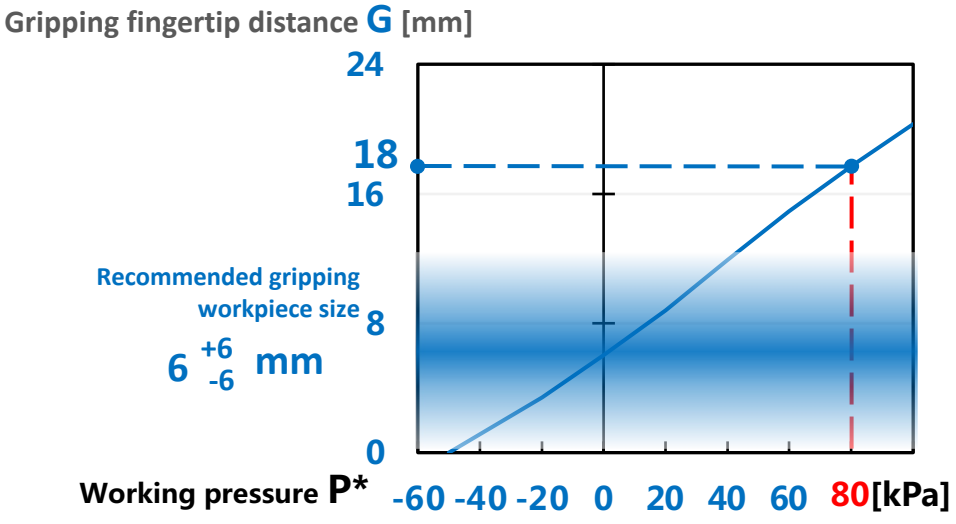
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-20606[P]	**Side Fitting Normal Material BML-20606[P]**
Straight Fitting Dust-free Normal Material BMC-20606[PAS]	**Side Fitting Dust-free Normal Material BML-20606[PAS]**









Parameter

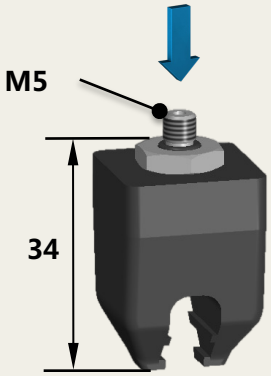
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	×	BMC Weight	17g	BML Weight	26.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

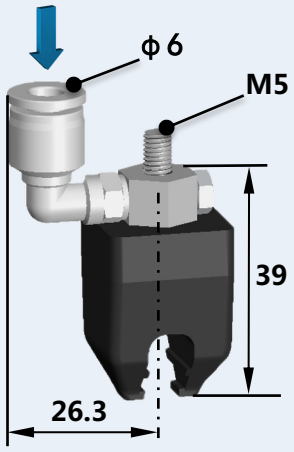
Straight Fitting
Normal Materia
BMC-20606[P]

Straight Fitting
Dust-free Normal Material
BMC-20606[PAS]



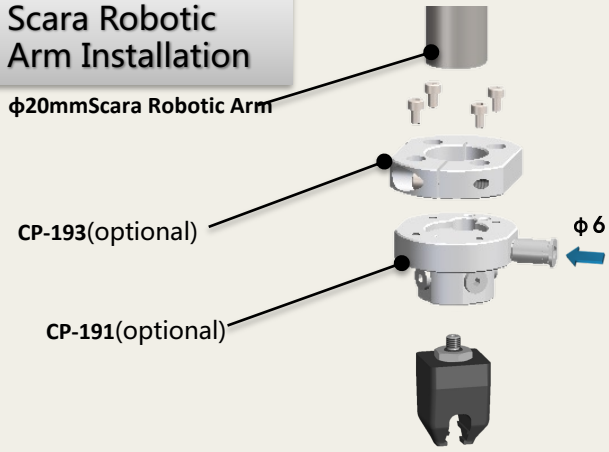
Side Fitting
Normal Material
BML-20606[P]

Side Fitting
Dust-free Normal Material
BML-20606[PAS]

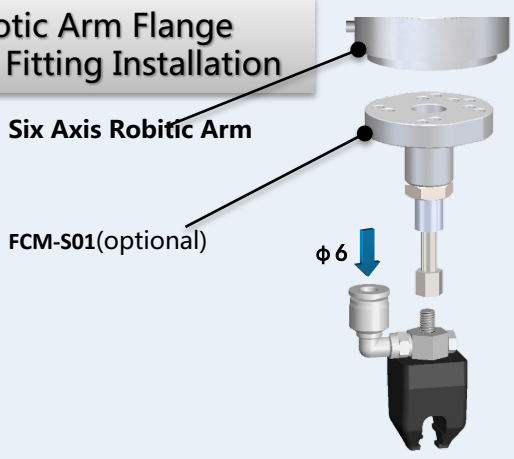


BM

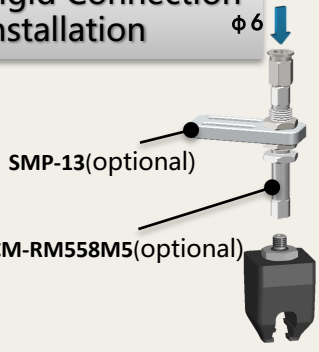
Scara Robotic Arm Installation



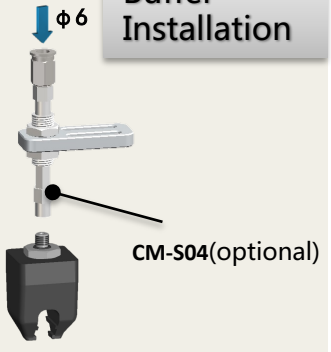
Robotic Arm Flange Side Fitting Installation



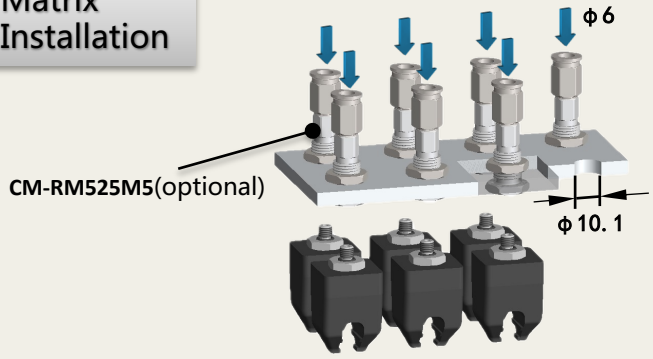
Rigid Connection Installation



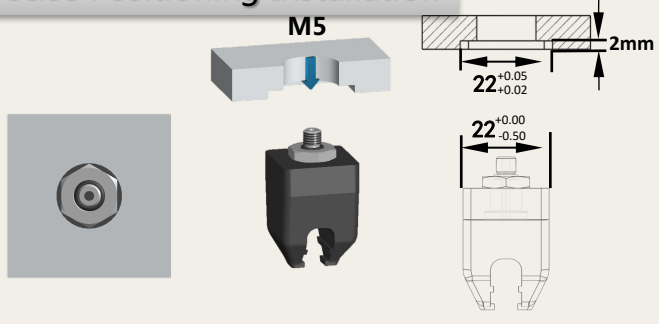
Buffer Installation



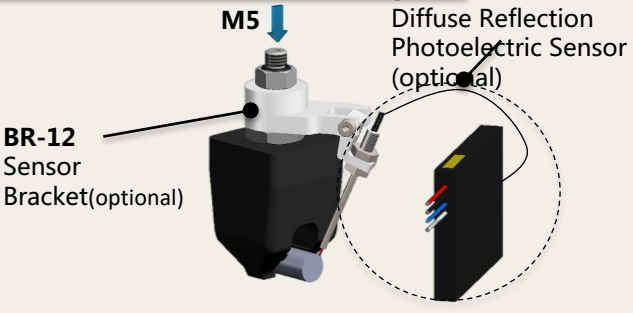
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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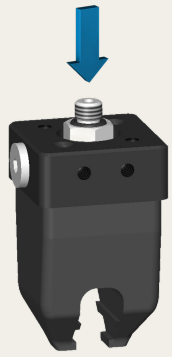
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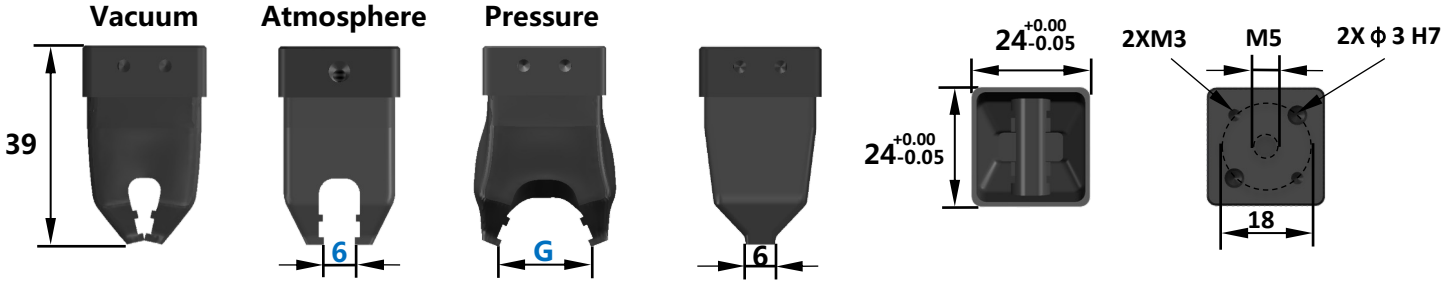
Product features

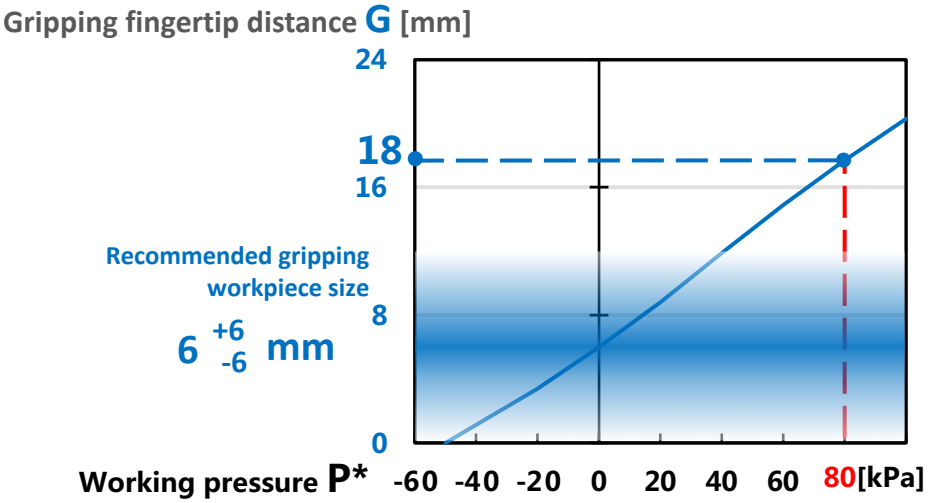
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-20606[P]/M	Side Fitting Normal Material BML-20606[P]/M
Straight Fitting Dust-free Normal Material BMC-20606[PAS]/M	Side Fitting Dust-free Normal Material BML-20606[PAS]/M









Parameter

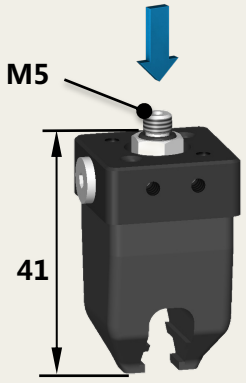
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	×	BMC Weight	22g	BML Weight	21g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

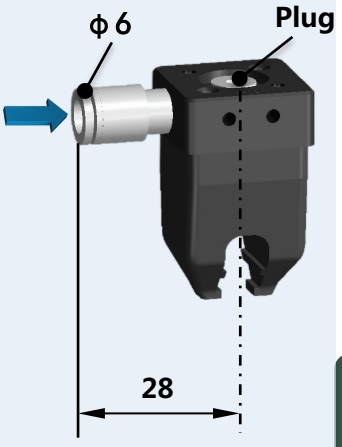
Straight Fitting
Normal Materia
BMC-20606[P]/M

Straight Fitting
Dust-free Normal Material
BMC-20606[PAS]/M



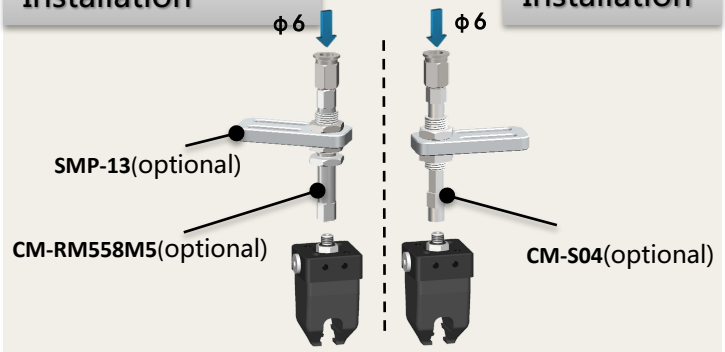
Side Fitting
Normal Material
BML-20606[P]/M

Side Fitting
Dust-free Normal Material
BML-20606[PAS]/M



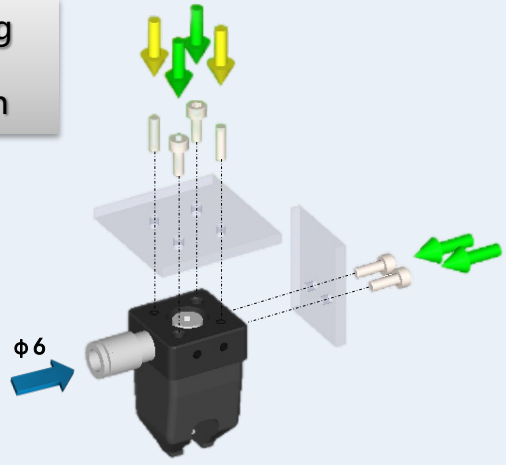
BM

Rigid Connection Installation

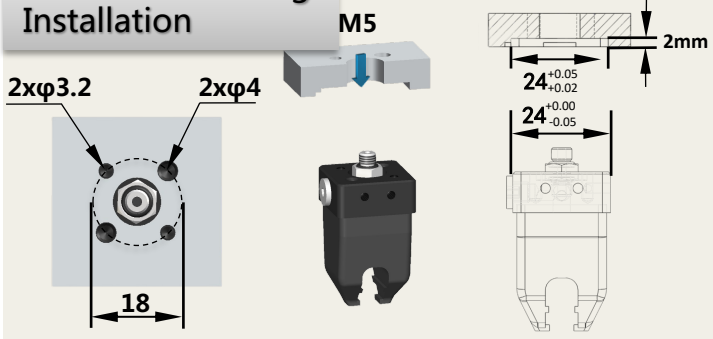


Buffer Installation

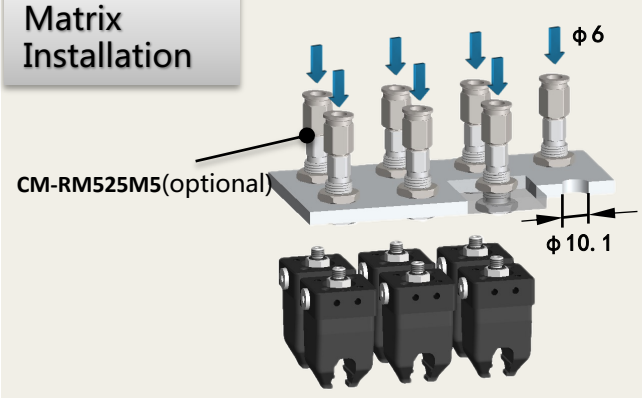
Side Fitting Partition Installation



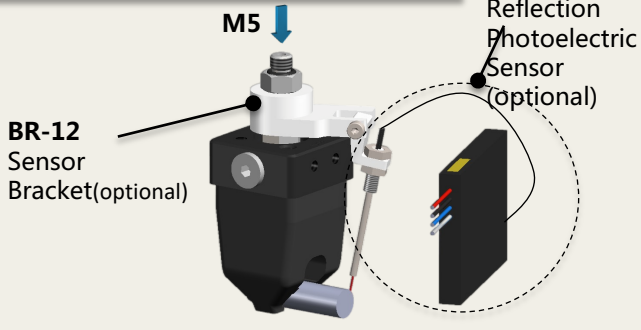
Precise Positioning Installation



Matrix Installation



Photoelectric Sensor Installation



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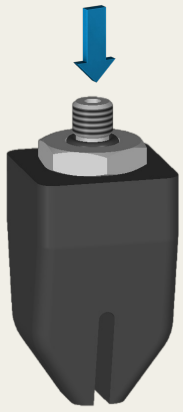
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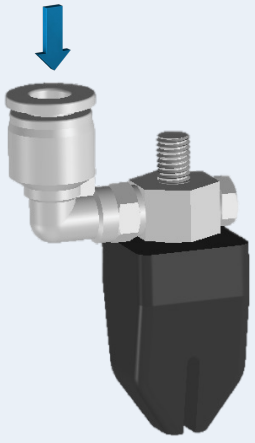
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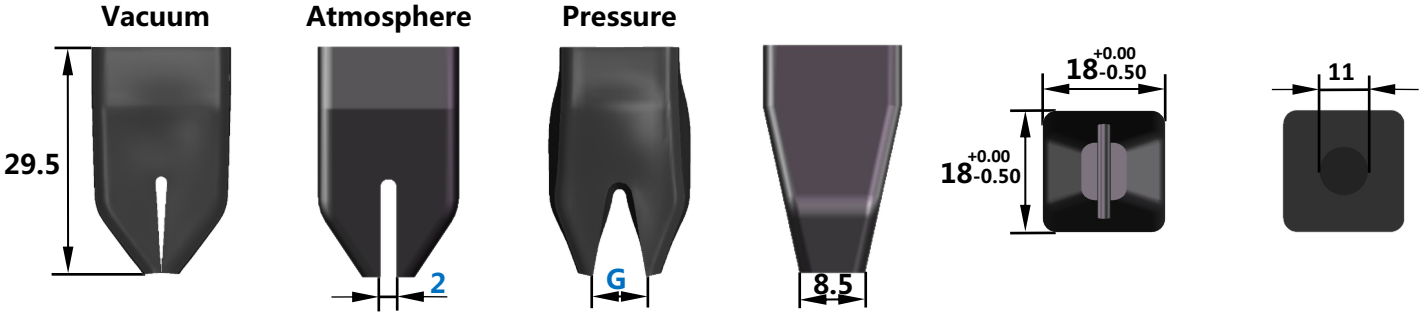
Product features

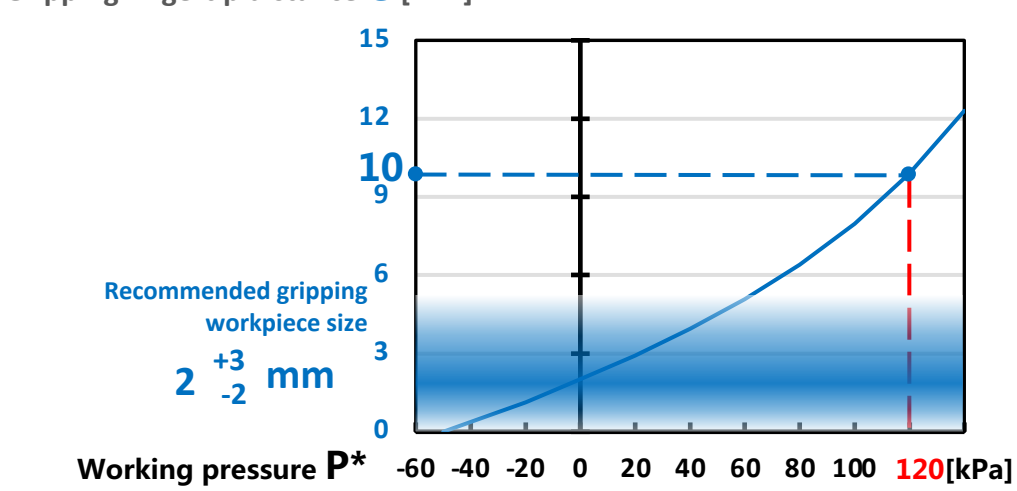
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- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-20802[P]	**Side Fitting Normal Material BML-20802[P]**
Straight Fitting Dust-free Normal Material BMC-20802[PAS]	**Side Fitting Dust-free Normal Material BML-20802[PAS]**









Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+120kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	×	BMC Weight	14g	BML Weight	23g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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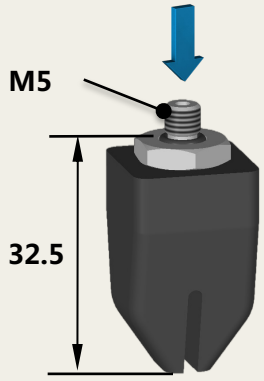
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Installation

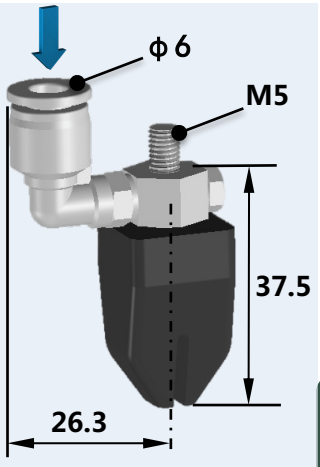
Straight Fitting
Normal Materia
BMC-20802[P]

Straight Fitting
Dust-free Normal Material
BMC-20802[PAS]



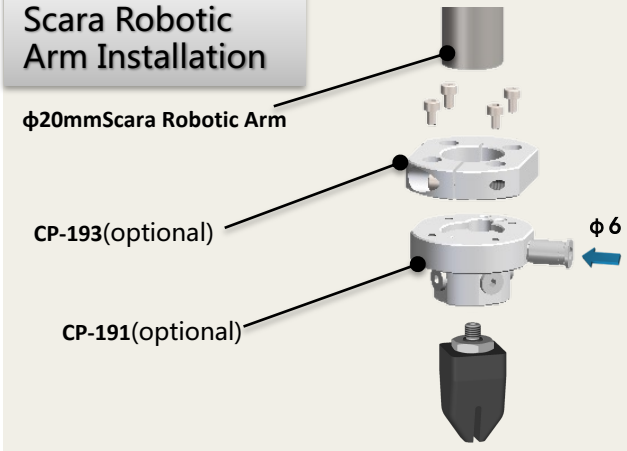
Side Fitting
Normal Material
BML-20802[P]

Side Fitting
Dust-free Normal Material
BML-20802[PAS]

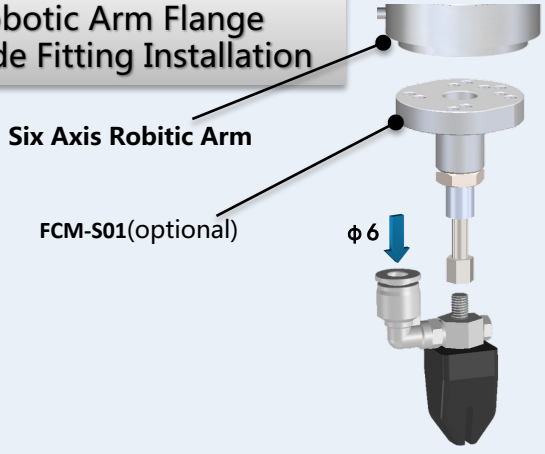


BM

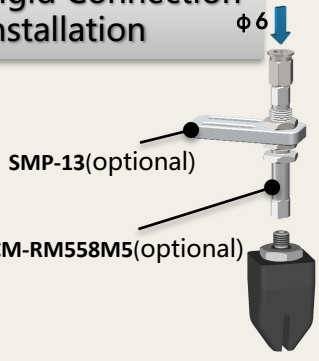
Scara Robotic Arm Installation



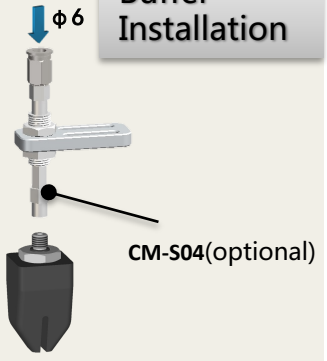
Robotic Arm Flange Side Fitting Installation



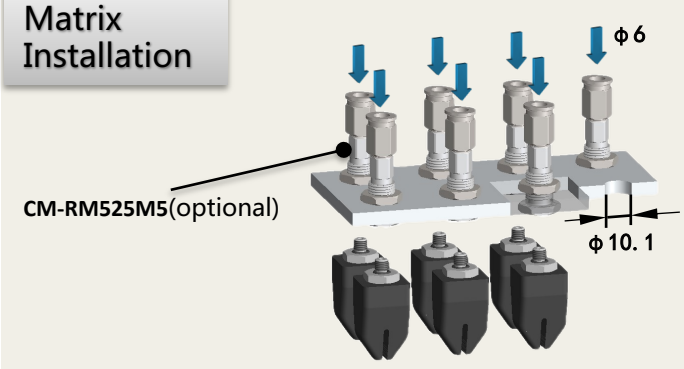
Rigid Connection Installation



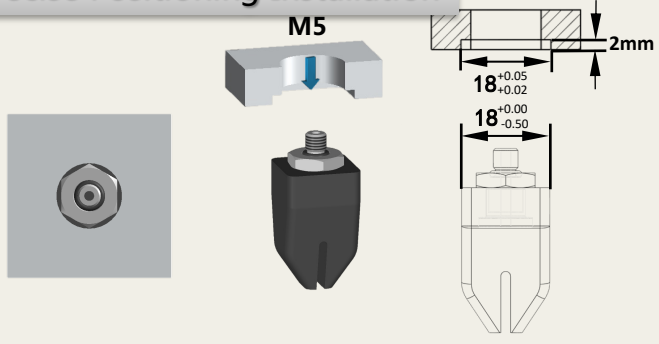
Buffer Installation



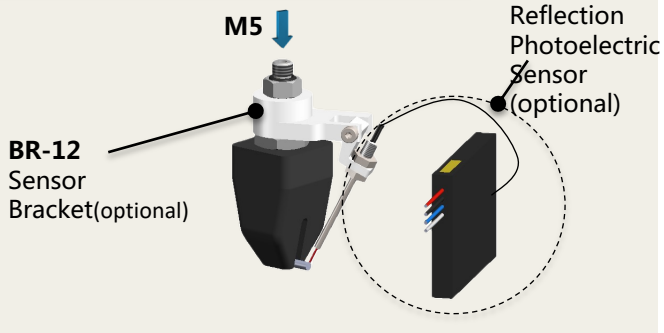
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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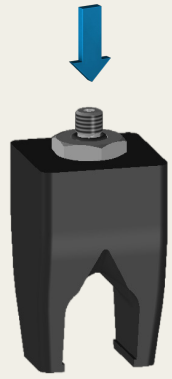
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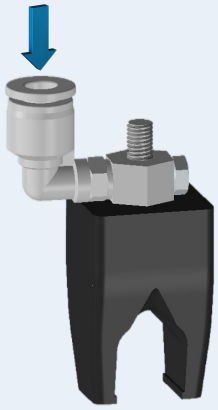
BM

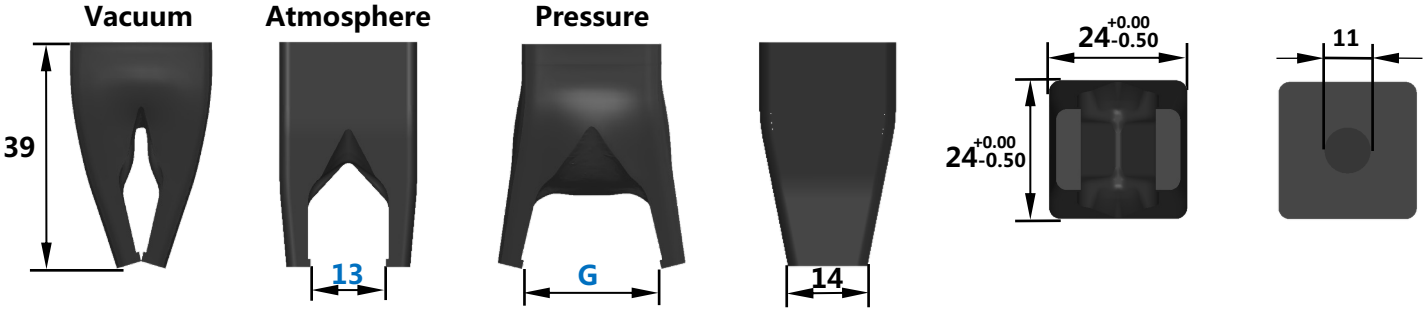
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

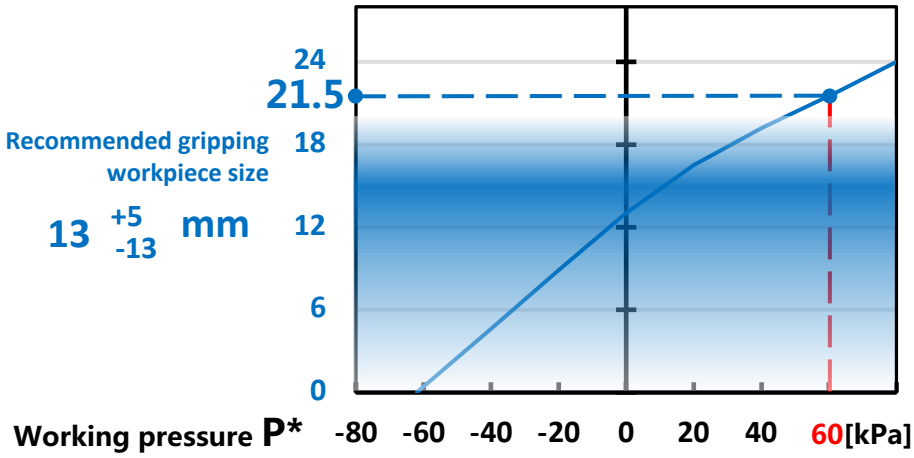
Straight Fitting Normal Materia BMC-21413[P]	Side Fitting Normal Material BML-21413[P]
Straight Fitting Dust-free Normal Material BMC-21413[PAS]	Side Fitting Dust-free Normal Material BML-21413[PAS]







Gripping fingertip distance **G** [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	50g	Lifetime	1.5 million times*	Safe Pressure	+60kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.5N	Internal gripping force	×	BMC Weight	20.6g	BML Weight	30g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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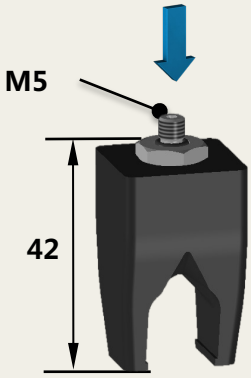
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Installation

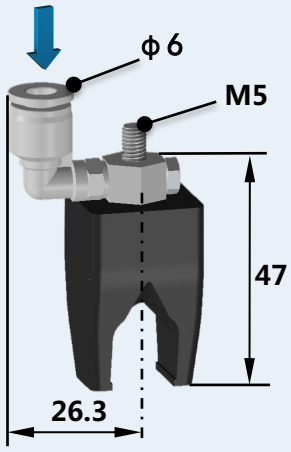
Straight Fitting
Normal Materia
BMC-21413[P]

Straight Fitting
Dust-free Normal Material
BMC-21413[PAS]



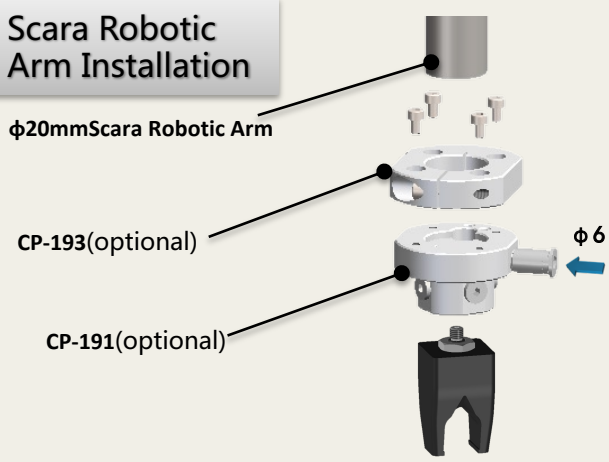
Side Fitting
Normal Material
BML-21413[P]

Side Fitting
Dust-free Normal Material
BML-21413[PAS]

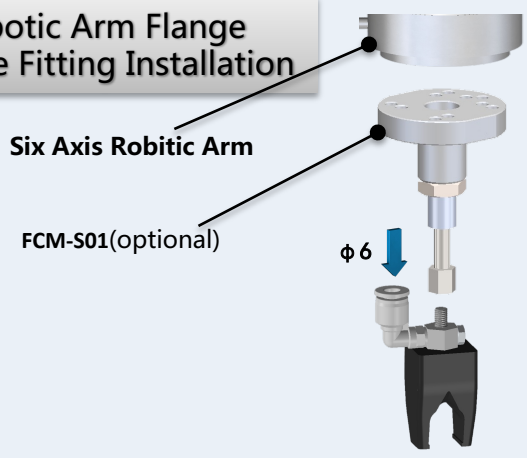


BM

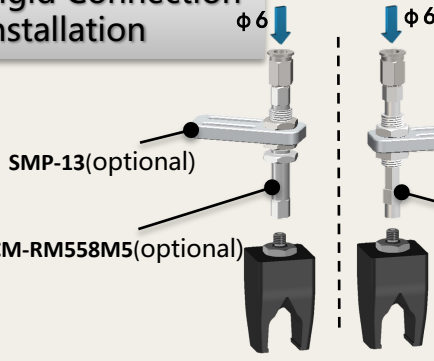
Scara Robotic Arm Installation



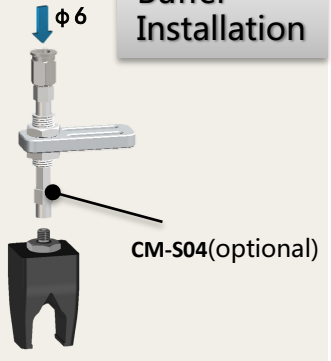
Robotic Arm Flange Side Fitting Installation



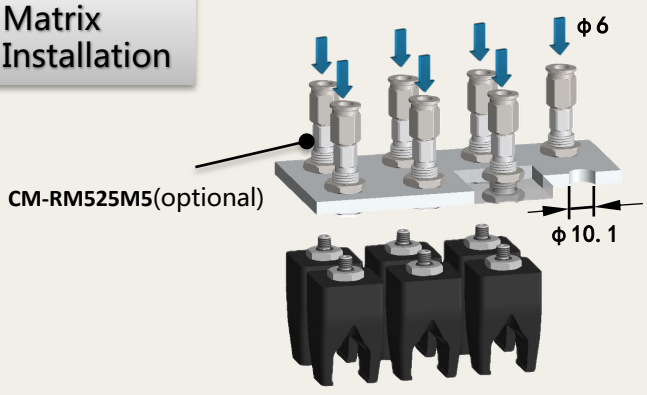
Rigid Connection Installation



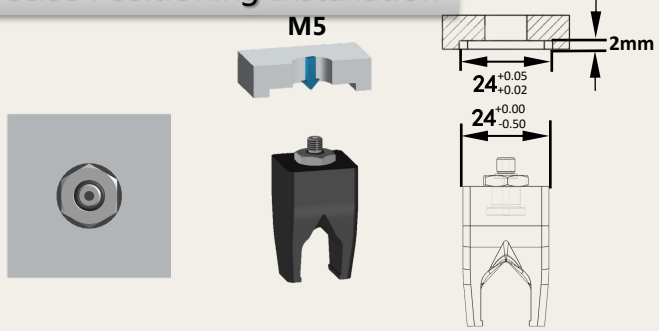
Buffer Installation



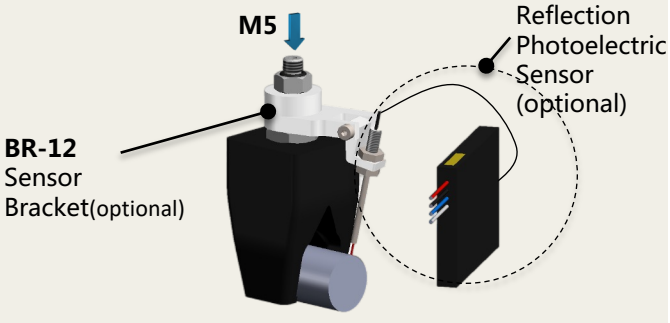
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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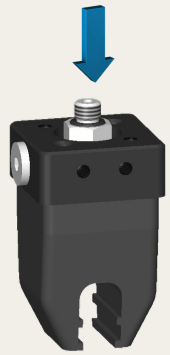
Scan to watch videos

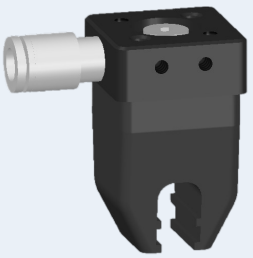
BM

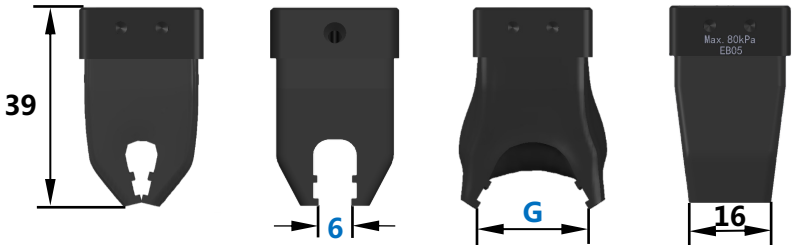
Product features

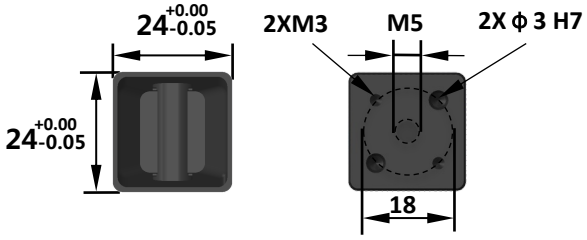
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

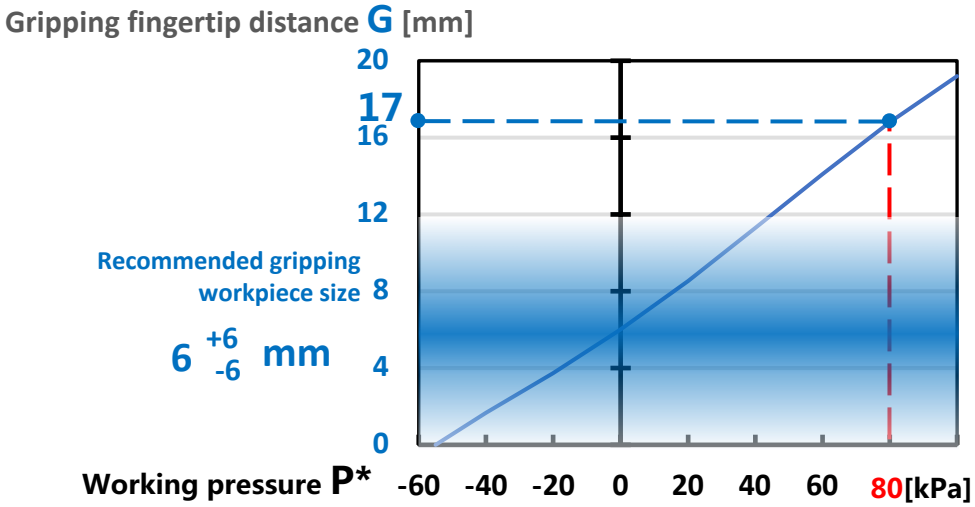
Straight Fitting Normal Materia BMC-21606[P]/M	**Side Fitting Normal Material BML-21606[P]/M**
Straight Fitting Dust-free Normal Material BMC-21606[PAS]/M	**Side Fitting Dust-free Normal Material BML-21606[PAS]/M**











Parameter

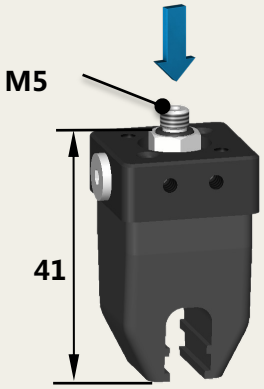
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	×	BMC Weight	24g	BML Weight	23g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

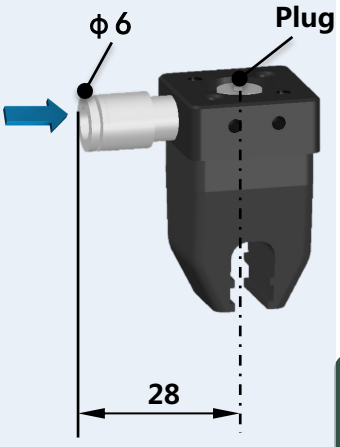
Straight Fitting
Normal Materia
BMC-21606[P]/M

Straight Fitting
Dust-free Normal Material
BMC-21606[PAS]/M



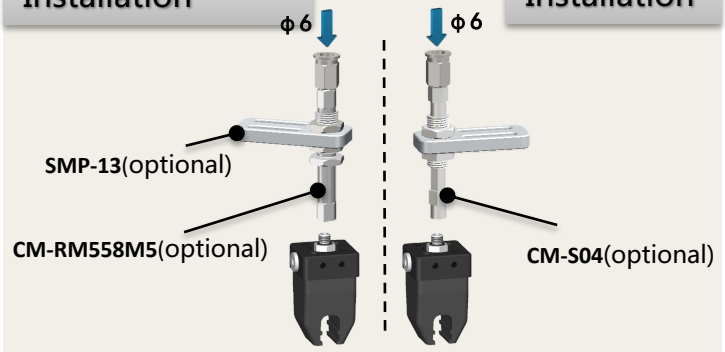
Side Fitting Normal Material
BML-21606[P]/M

Side Fitting
Dust-free Normal Material
BML-21606[PAS]/M



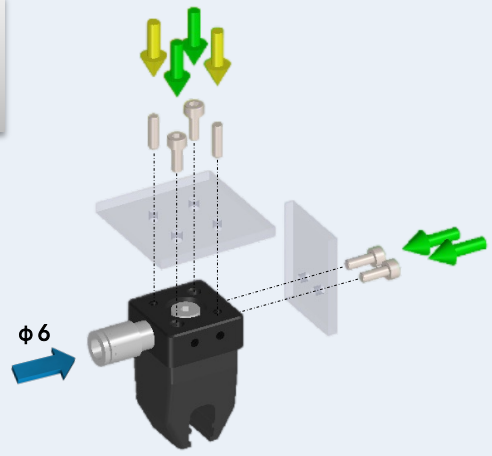
BM

Rigid Connection Installation

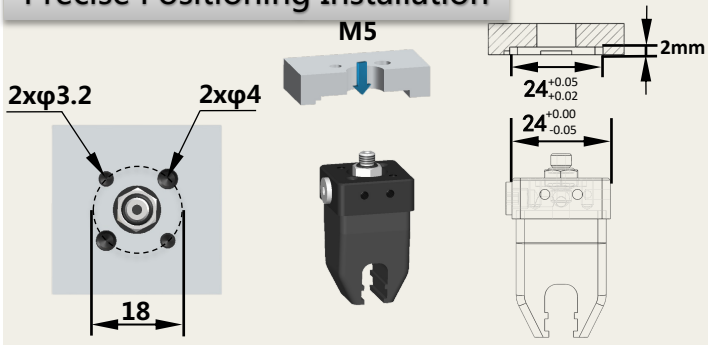


Buffer Installation

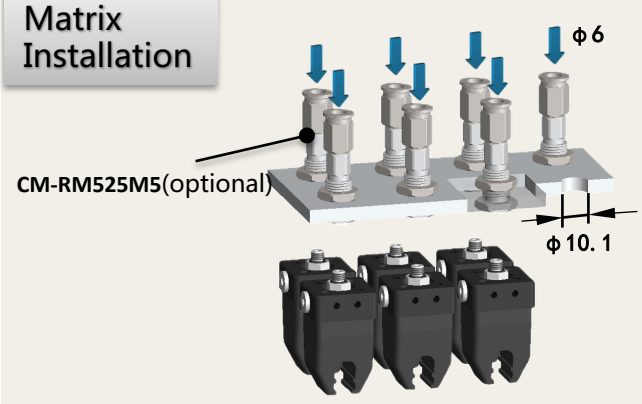
Side Fitting Partition Installation



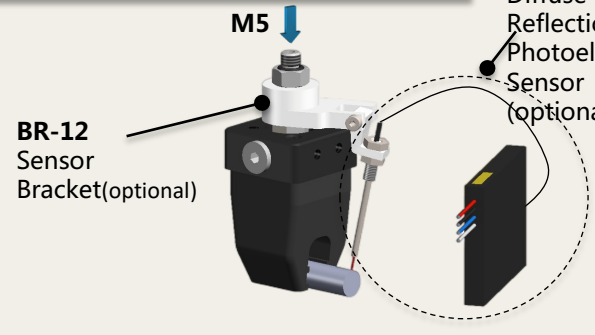
Precise Positioning Installation



Matrix Installation



Photoelectric Sensor Installation



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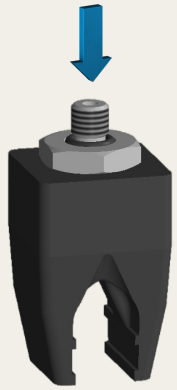
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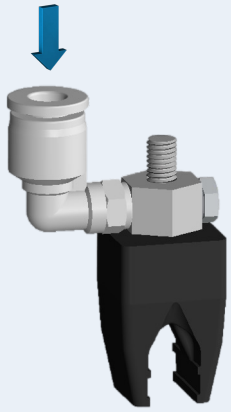
BM

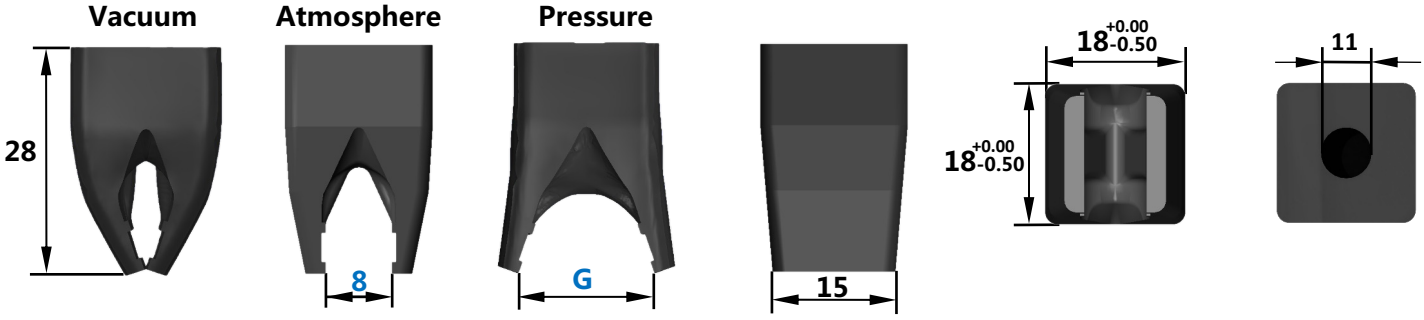
Product features

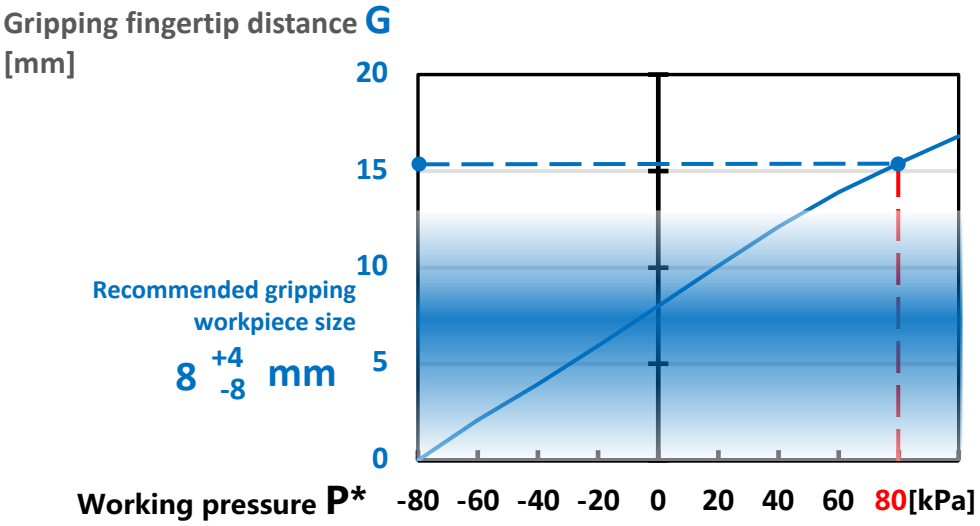
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-21608[P]	**Side Fitting Normal Material BML-21608[P]**
Straight Fitting Dust-free Normal Material BMC-21608[PAS]	**Side Fitting Dust-free Normal Material BML-21608[PAS]**









Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	×	BMC Weight	17g	BML Weight	26.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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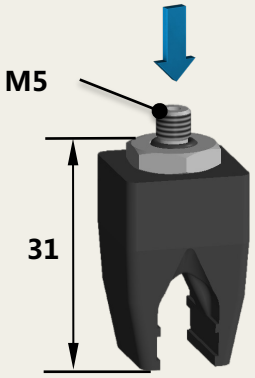
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Installation

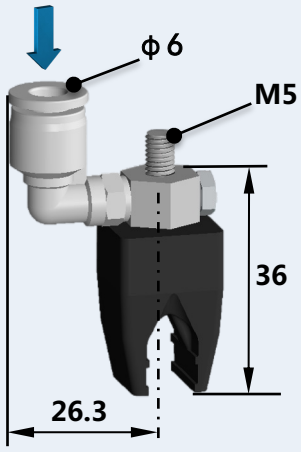
Straight Fitting
Normal Materia
BMC-21608[P]

Straight Fitting
Dust-free Normal Material
BMC-21608[PAS]



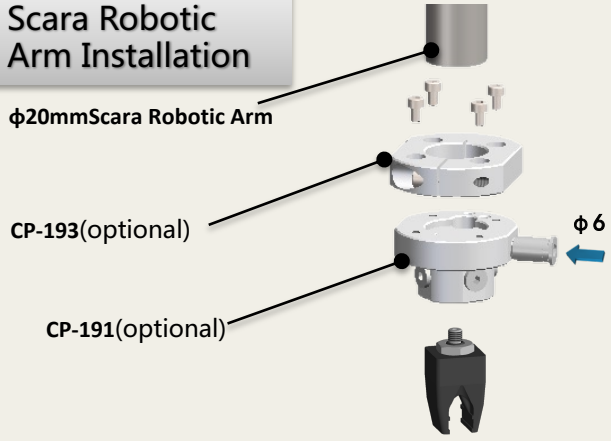
Side Fitting
Normal Material
BML-21608[P]

Side Fitting
Dust-free Normal Material
BML-21608[PAS]

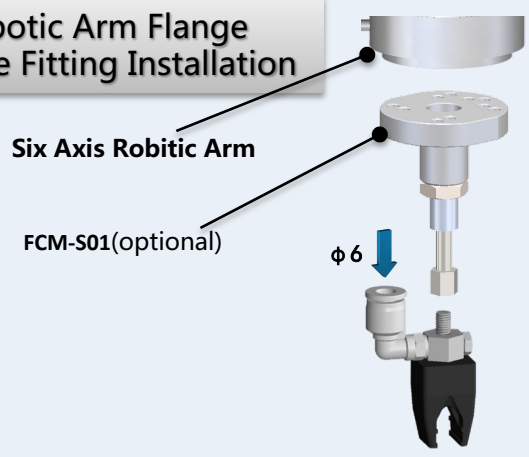


BM

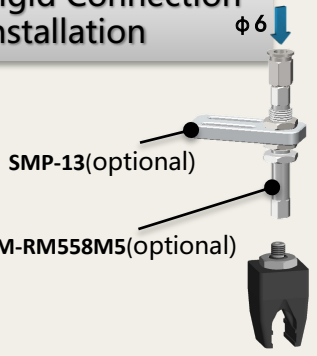
Scara Robotic Arm Installation



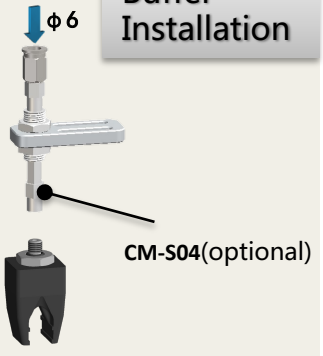
Robotic Arm Flange Side Fitting Installation



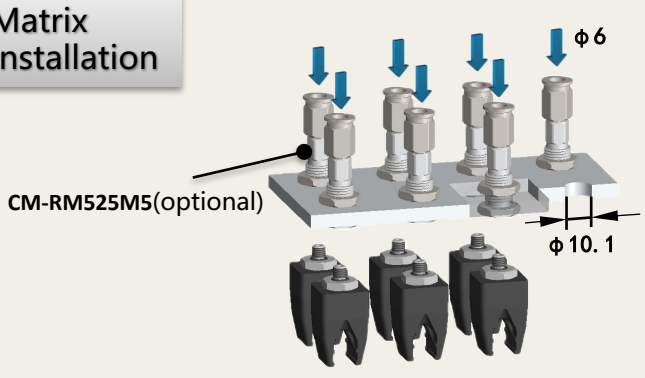
Rigid Connection Installation



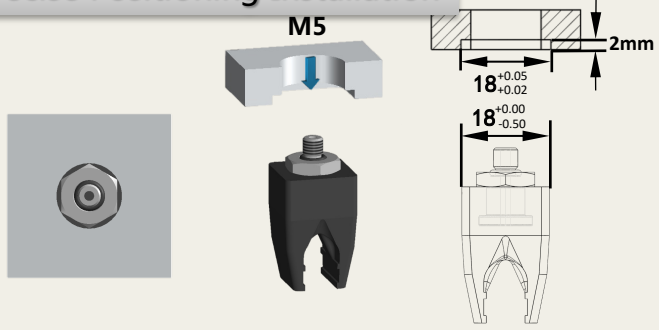
Buffer Installation



Matrix Installation

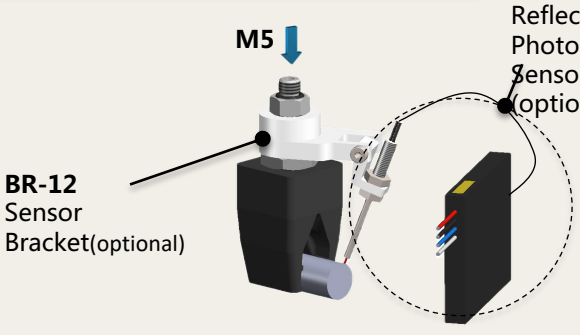


Precise Positioning Installation



Photoelectric Sensor Installation

SE-24
Diffuse Reflection Photoelectric Sensor (optional)



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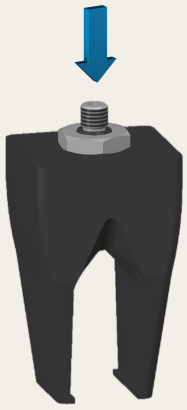
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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

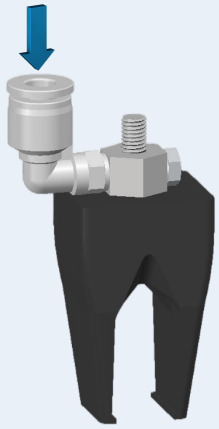
Straight Fitting
Normal Materia
BMC-21812[P]

Straight Fitting
Dust-free Normal Material
BMC-21812[PAS]

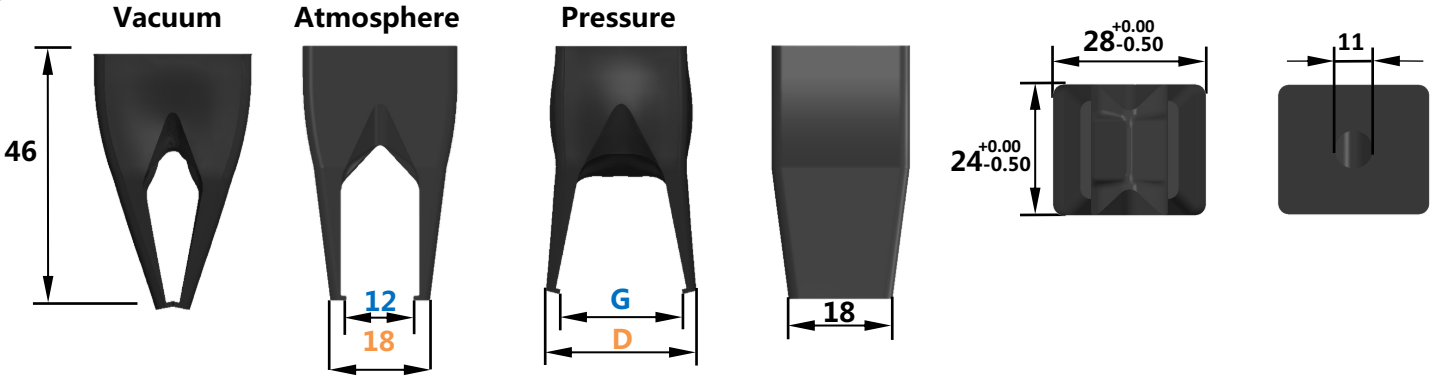


Side Fitting
Normal Material
BML-21812[P]

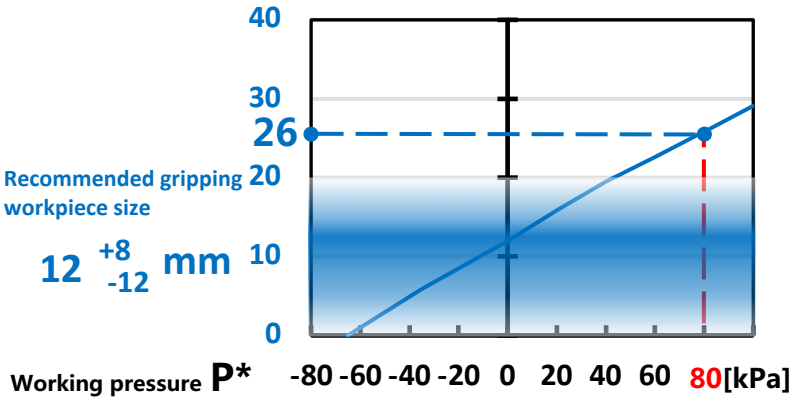
Side Fitting
Dust-free Normal Material
BML-21812[PAS]



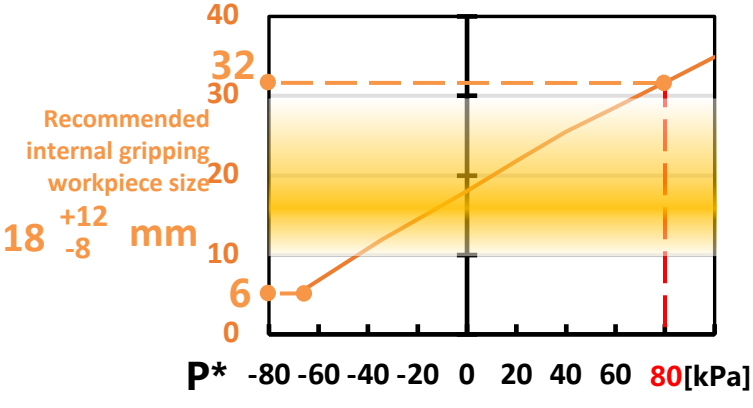
BM



Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

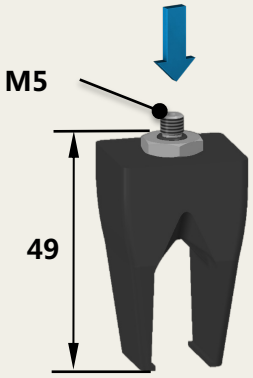
Repetitive Precision	±0.05mm	Recommend -ed Load	45g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.45N	Internal gripping force	0-1N	BMC Weight	20g	BML Weight	29g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

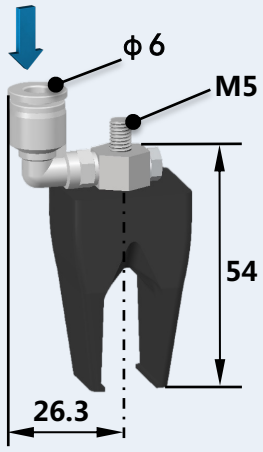
Straight Fitting
Normal Materia
BMC-21812[P]

Straight Fitting
Dust-free Normal Material
BMC-21812[PAS]



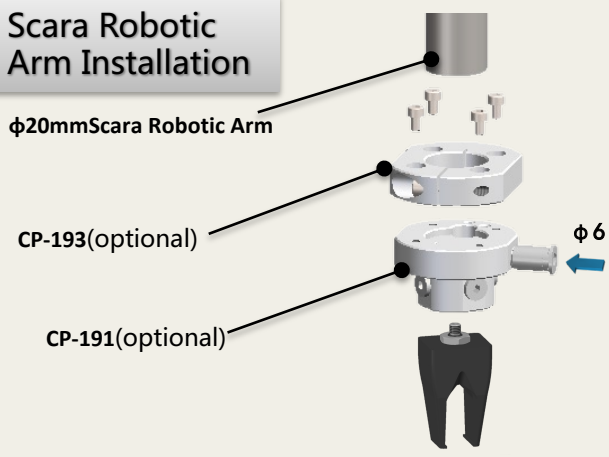
Side Fitting Normal Material
BML-21812[P]

Side Fitting
Dust-free Normal Material
BML-21812[PAS]

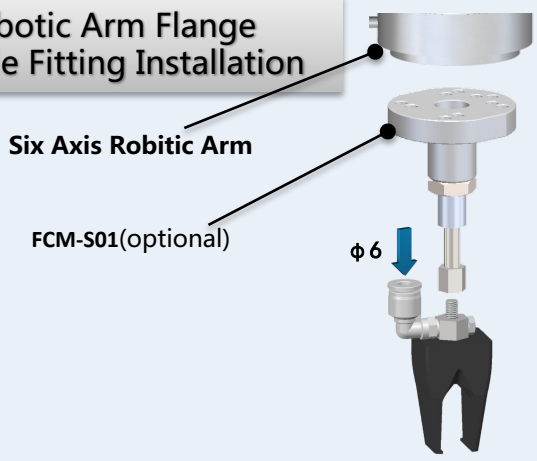


BM

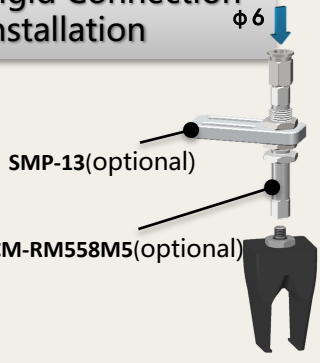
Scara Robotic Arm Installation



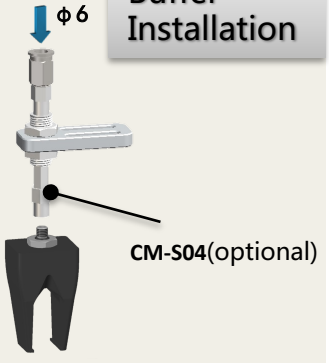
Robotic Arm Flange Side Fitting Installation



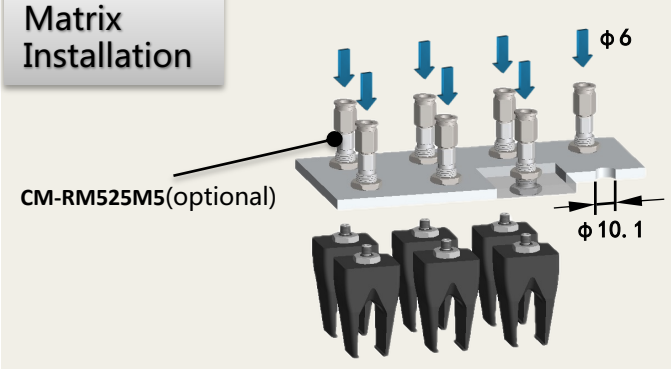
Rigid Connection Installation



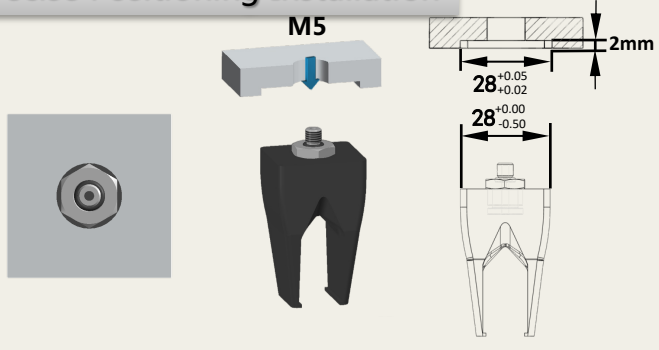
Buffer Installation



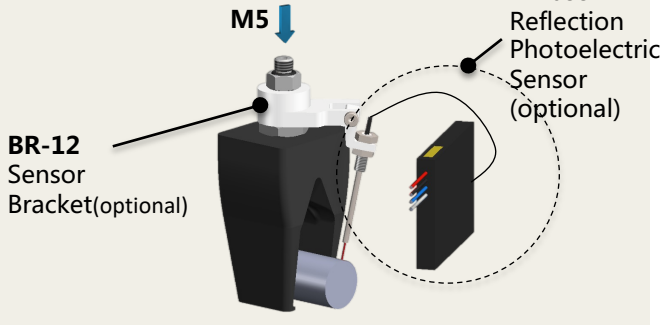
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

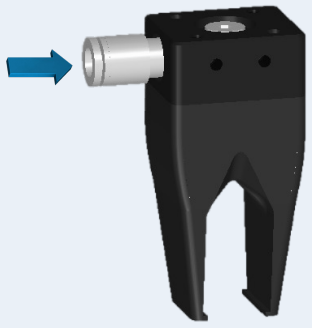
Straight Fitting
Normal Materia
BMC-21812[P]/M

Straight Fitting
Dust-free Normal Material
BMC-21812[PAS]/M

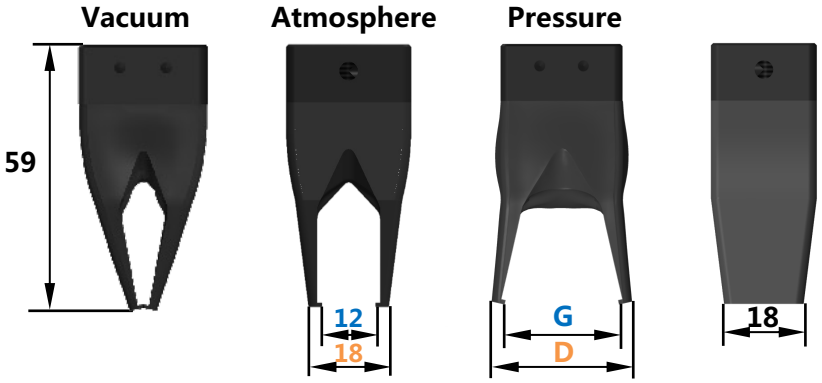


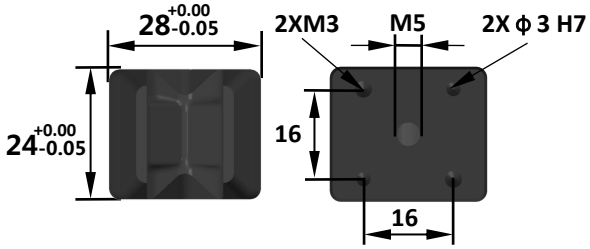
Side Fitting
Normal Material
BML-21812[P]/M

Side Fitting
Dust-free Normal Material
BML-21812[PAS]/M

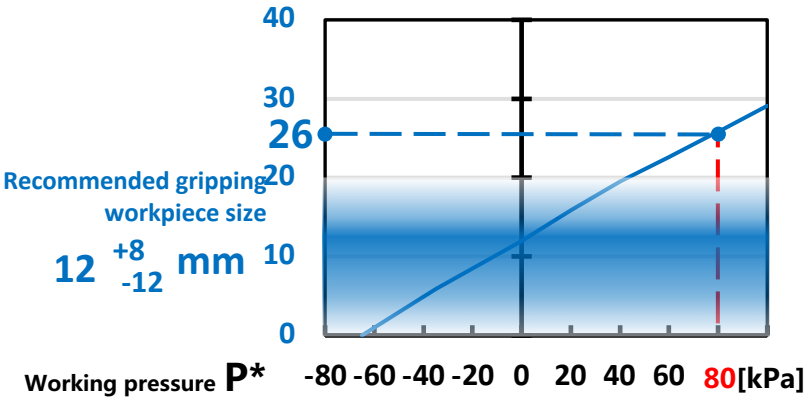


BM

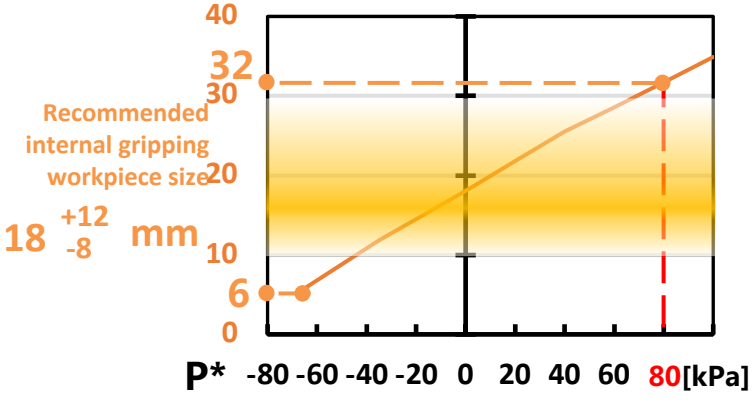




Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

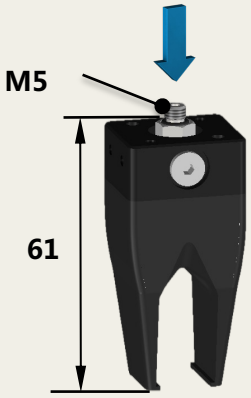
Repetitive Precision	±0.05mm	Recommend -ed Load	45g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.45N	Internal gripping force	0-1N	BMC Weight	40g	BML Weight	50g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

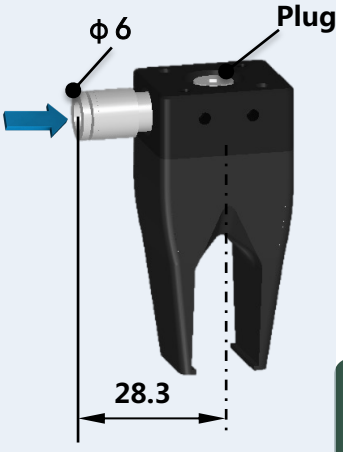
Straight Fitting
Normal Materia
BMC-21812[P]/M

Straight Fitting
Dust-free Normal Material
BMC-21812[PAS]/M



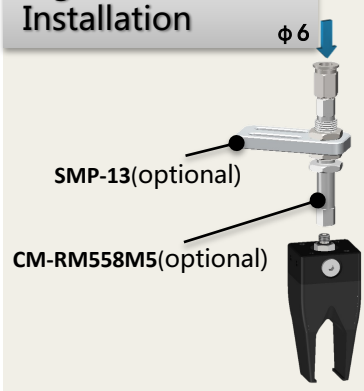
Side Fitting
Normal Material
BML-21812[P]/M

Side Fitting
Dust-free Normal Material
BML-21812[PAS]/M

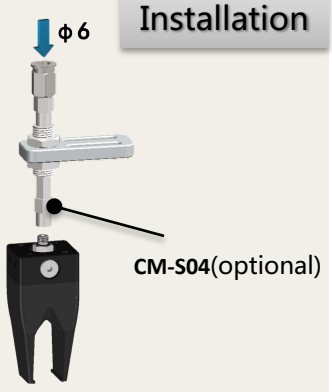


BM

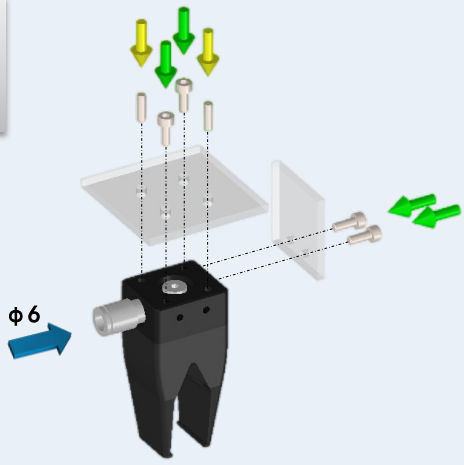
Rigid Connection Installation



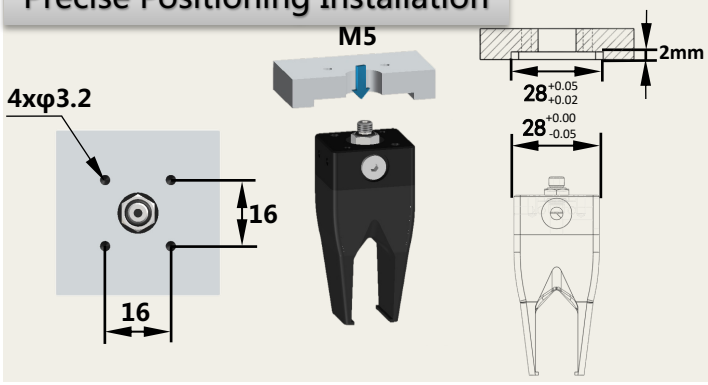
Buffer Installation



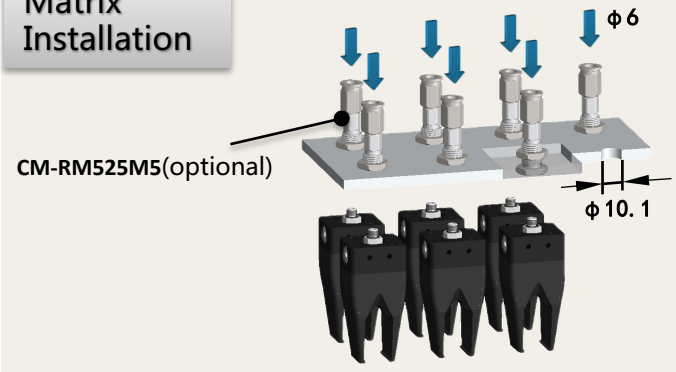
Side Fitting Partition Installation



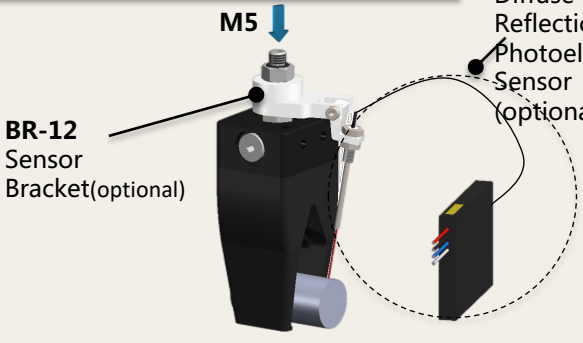
Precise Positioning Installation



Matrix Installation



Photoelectric Sensor Installation



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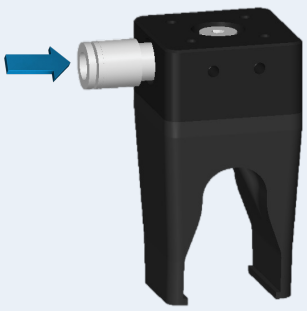
Scan to watch videos

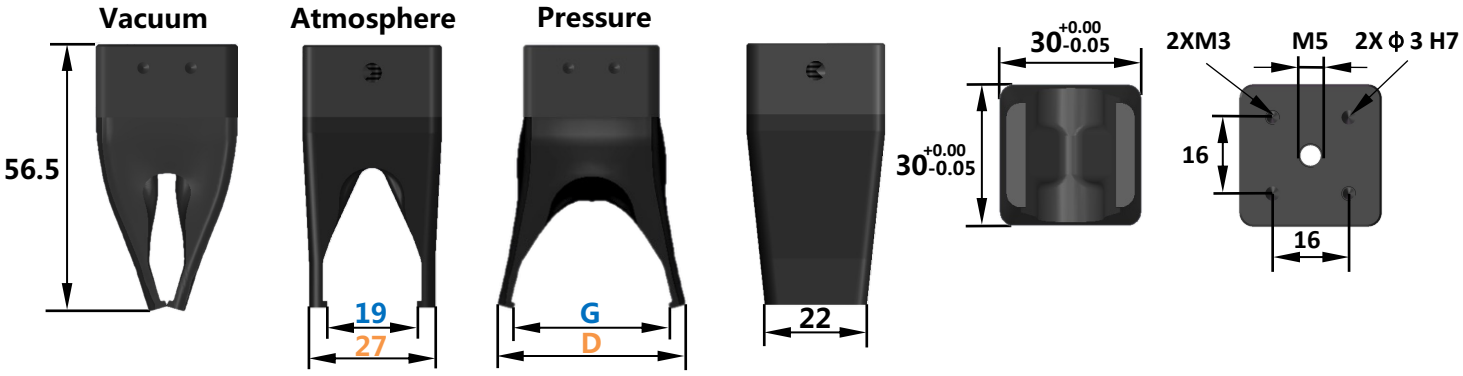
Product features

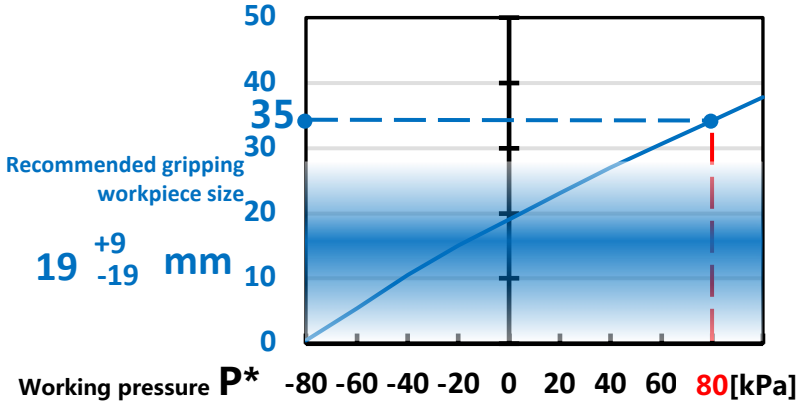
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

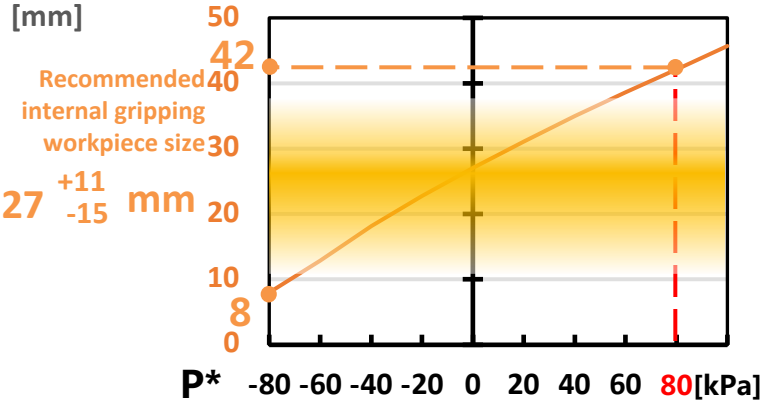
Straight Fitting Normal Materia BMC-22219[P]/M	Side Fitting Normal Material BML-22219[P]/M
Straight Fitting Dust-free Normal Material BMC-22219[PAS]/M	Side Fitting Dust-free Normal Material BML-22219[PAS]/M











Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	50g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.5N	Internal gripping force	0-1N	BMC Weight	48g	BML Weight	47g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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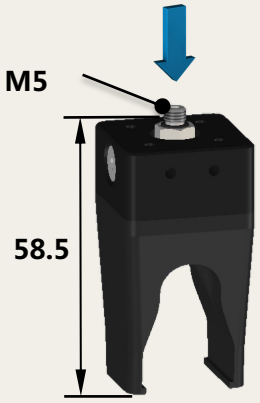
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Installation

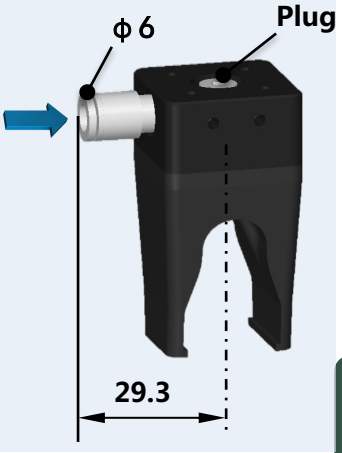
Straight Fitting
Normal Materia
BMC-22219[P]/M

Straight Fitting
Dust-free Normal Material
BMC-22219[PAS]/M



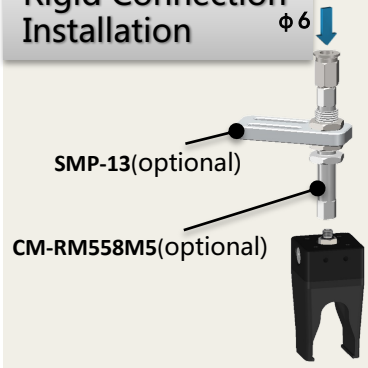
Side Fitting
Normal Material
BML-22219[P]/M

Side Fitting
Dust-free Normal Material
BML-22219[PAS]/M

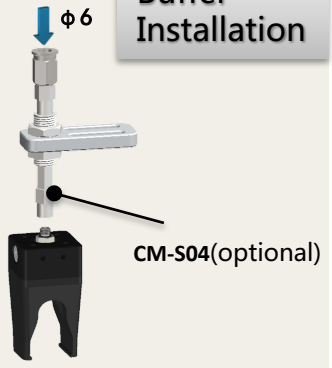


BM

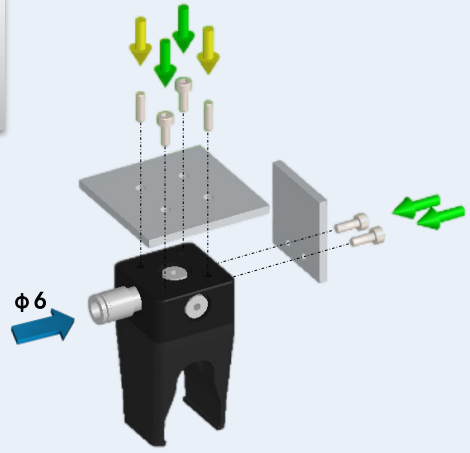
Rigid Connection Installation



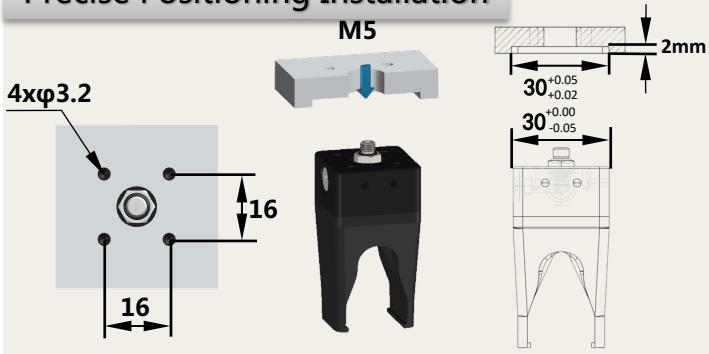
Buffer Installation



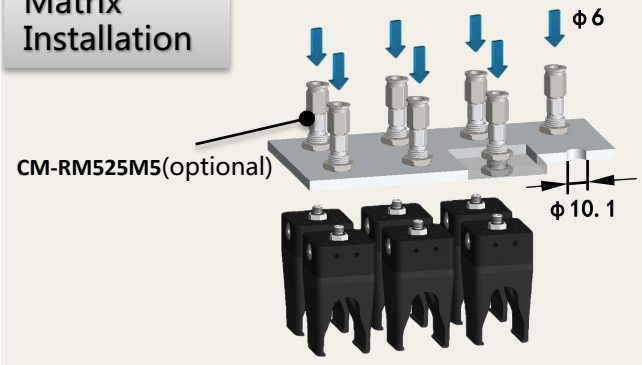
Side Fitting Partition Installation



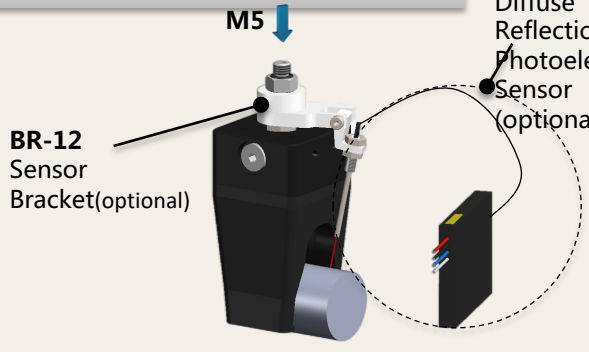
Precise Positioning Installation



Matrix Installation



Photoelectric Sensor Installation



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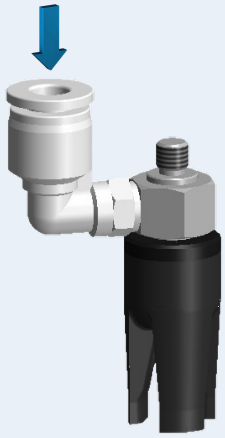
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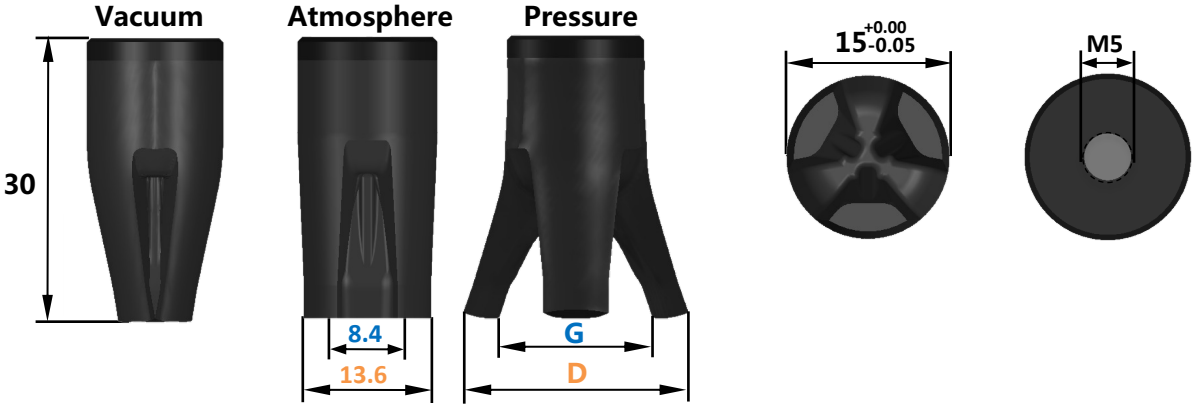
Product features

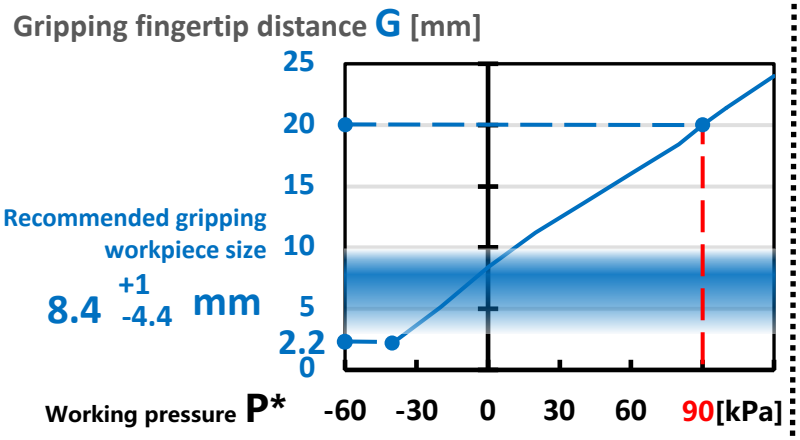
- Finger open in positive pressure state, clamped in vacuum state. It is recommended to use with Rochu control unit. Gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

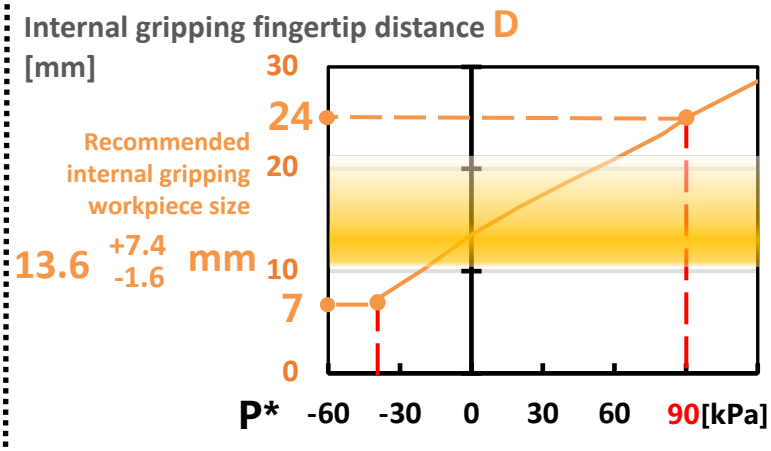
Straight Fitting Normal Materia BMC-3A15[P]/S	**Side Fitting Normal Material BML-3A15[P]/S**
Straight Fitting Dust-free Normal Material BMC-3A15[PAS]/S	**Side Fitting Dust-free Normal Material BML-3A15[PAS]/S**











Parameter

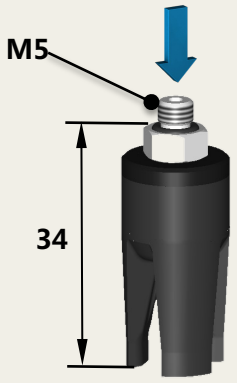
Repetitive Precision	±0.05mm	Recommend -ed Load	40g	Lifetime	1.5 million times*	Safe Pressure	+90kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	0-0.4N	BMC Weight	8.5g	BML Weight	17.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

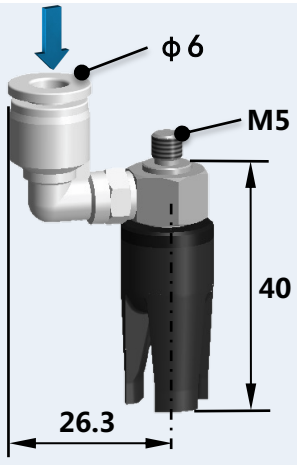
Straight Fitting
Normal Materia
BMC-3A15[P]/S

Straight Fitting
Dust-free Normal Material
BMC-3A15[PAS]/S

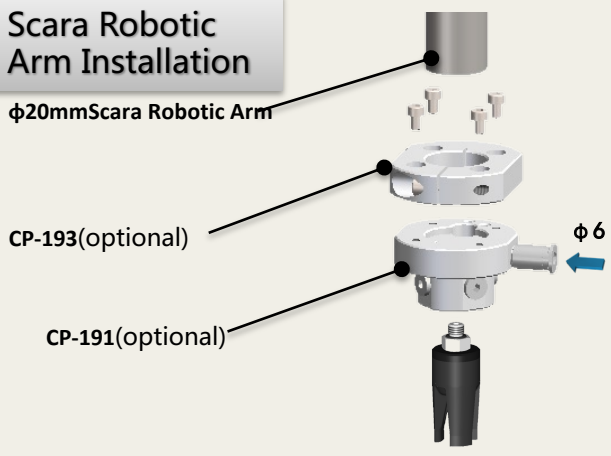


Side Fitting
Normal Material
BML-3A15[P]/S

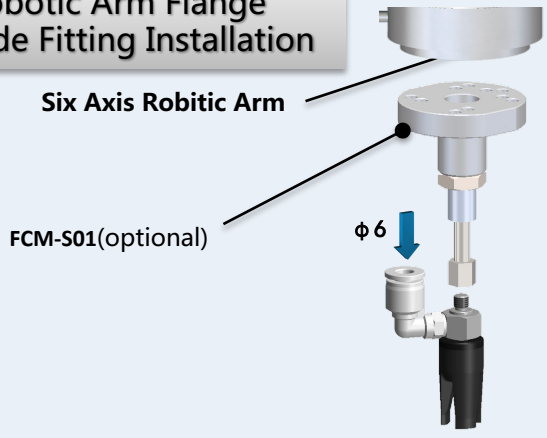
Side Fitting
Dust-free Normal Material
BML-3A15[PAS]/S



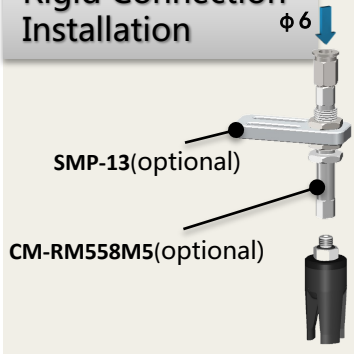
Scara Robotic Arm Installation



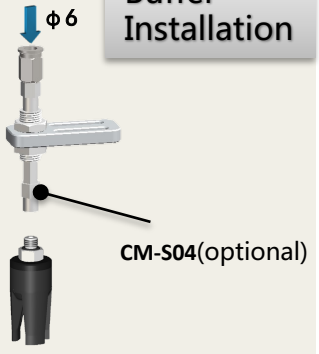
Robotic Arm Flange Side Fitting Installation



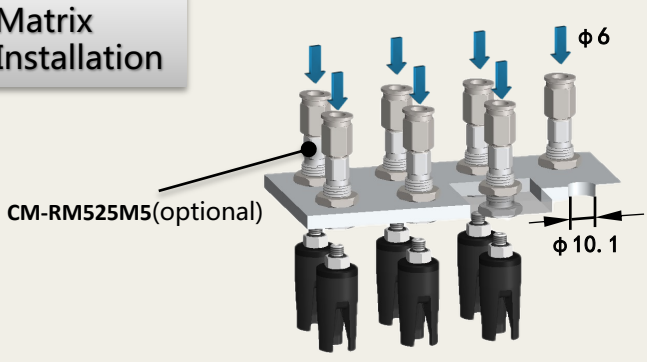
Rigid Connection Installation



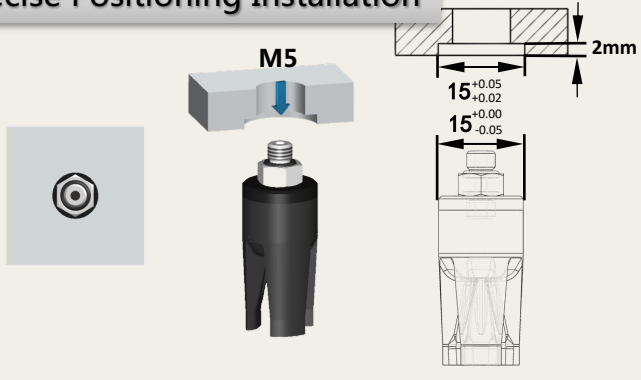
Buffer Installation



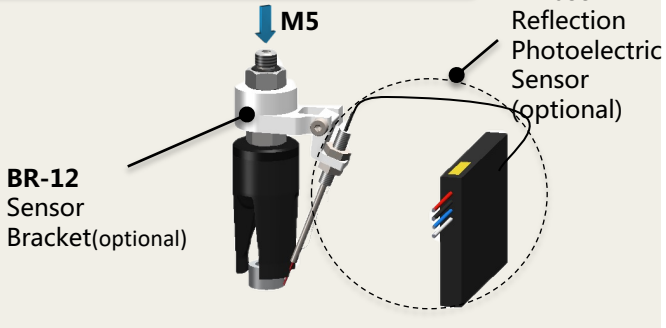
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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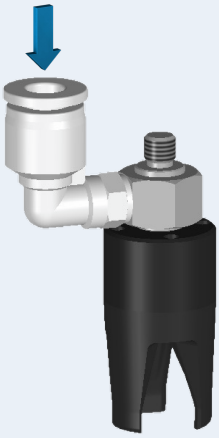
BM

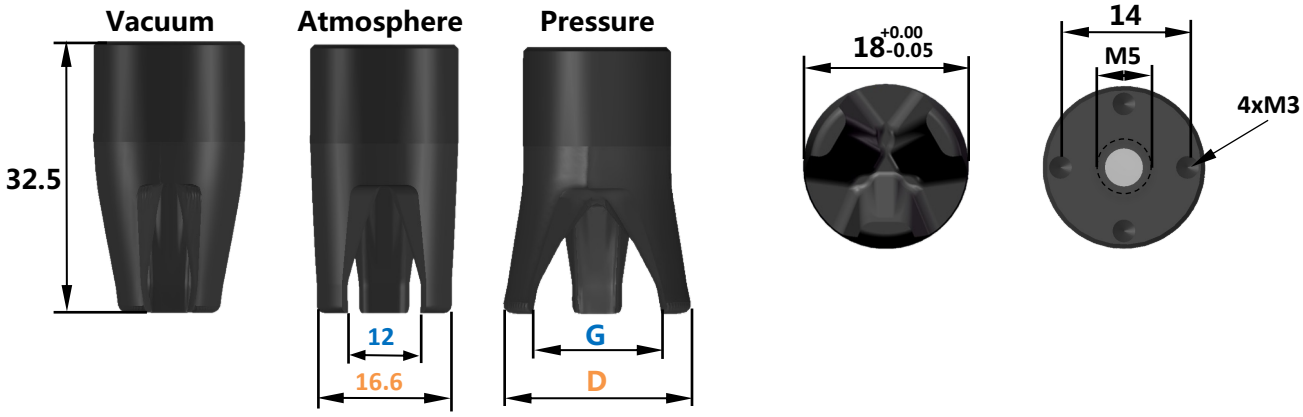
Product features

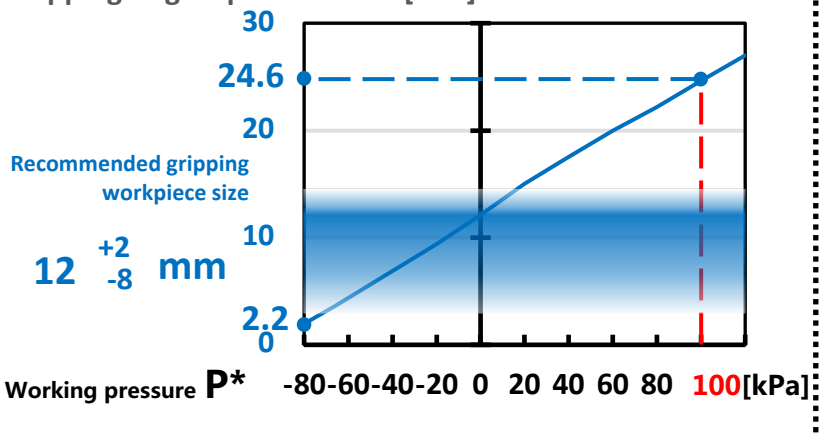
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

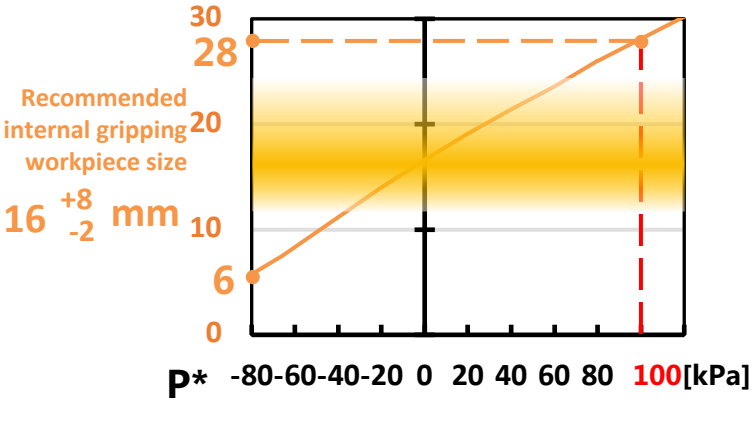
Straight Fitting Normal Materia BMC-3A18[P]/S	**Side Fitting Normal Material BML-3A18[P]/S**
Straight Fitting Dust-free Normal Material BMC-3A18[PAS]/S	**Side Fitting Dust-free Normal Material BML-3A18[PAS]/S**











Parameter

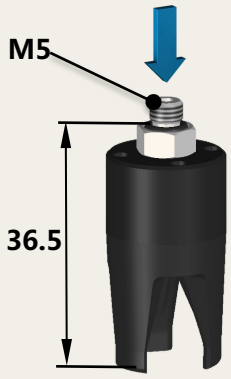
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	0-1.5N	BMC Weight	10g	BML Weight	19g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

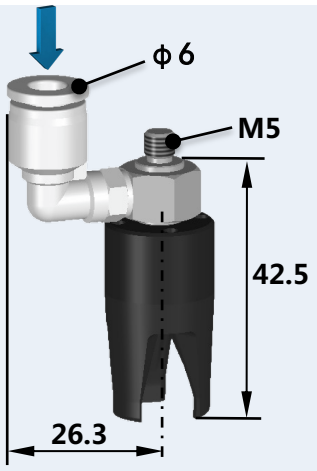
Straight Fitting
Normal Materia
BMC-3A18[P]/S

Straight Fitting
Dust-free Normal Material
BMC-3A18[PAS]/S

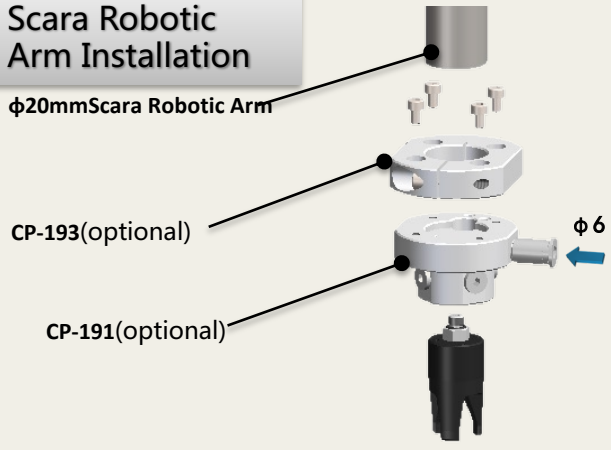


Side Fitting
Normal Material
BML-3A18[P]/S

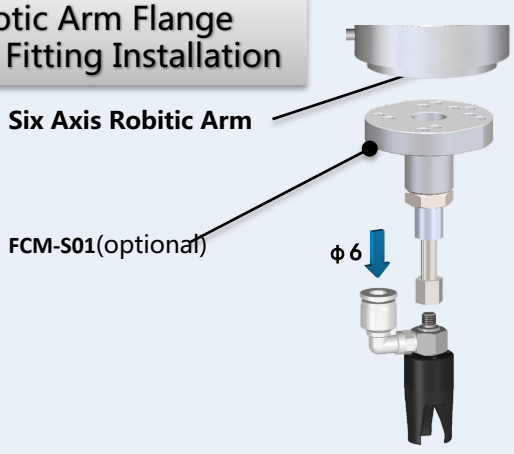
Side Fitting
Dust-free Normal Material
BML-3A18[PAS]/S



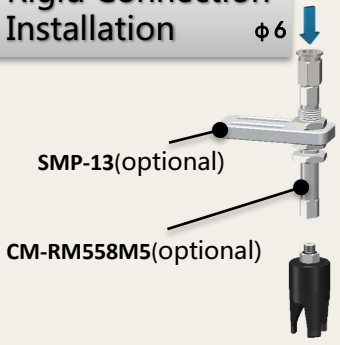
Scara Robotic Arm Installation



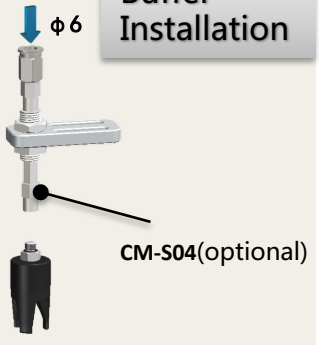
Robotic Arm Flange Side Fitting Installation



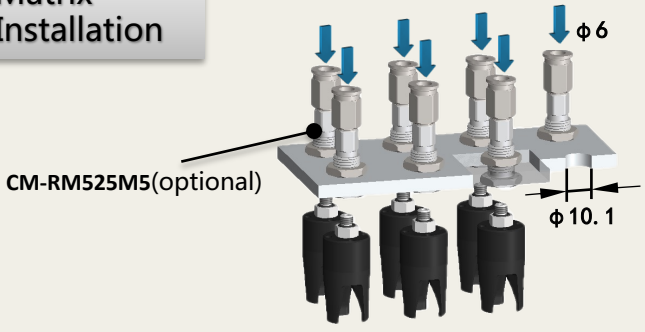
Rigid Connection Installation



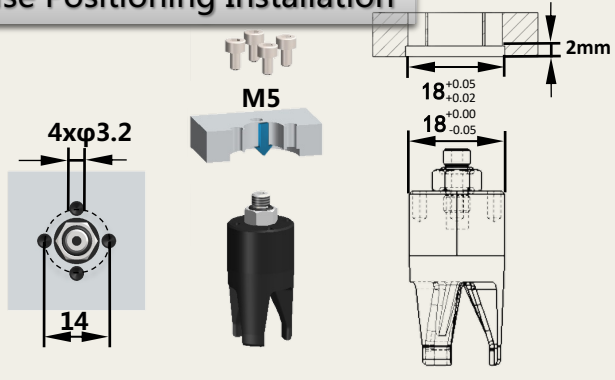
Buffer Installation



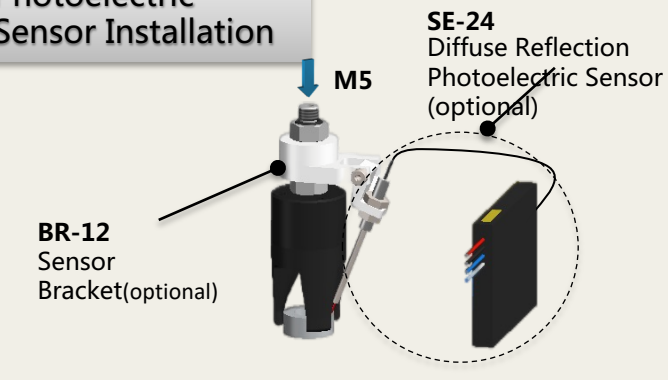
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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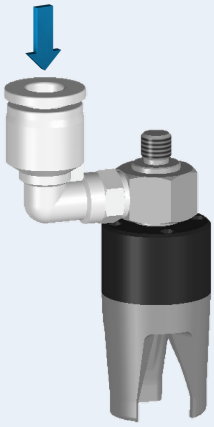
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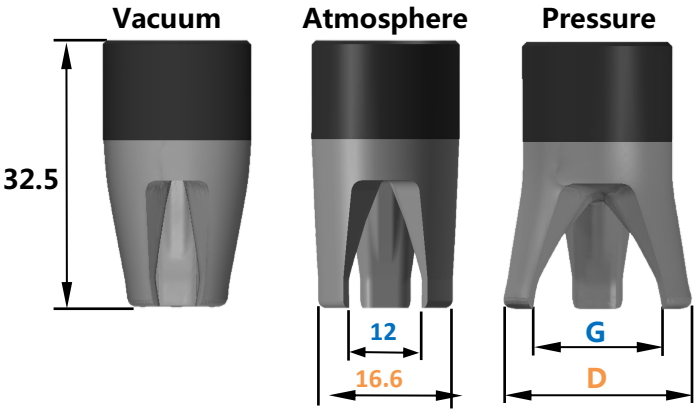
Scan to watch videos

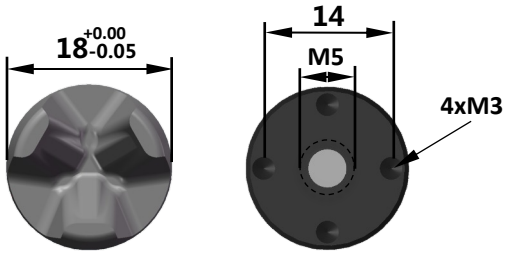
BM

Product features

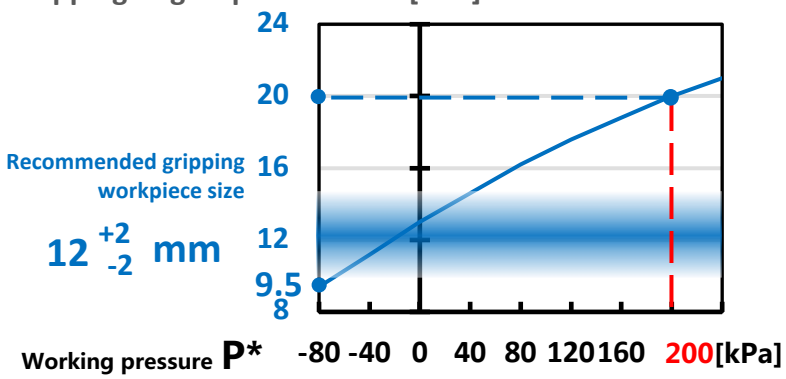
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

Straight Fitting **Normal Materia** **BMC-3A18[H]/S**	
Straight Fitting **Dust-free Normal Material** **BMC-3A18[HAS]/S**	
Side Fitting **Normal Material** **BML-3A18[H]/S**	
Side Fitting **Dust-free Normal Material** **BML-3A18[HAS]/S**	

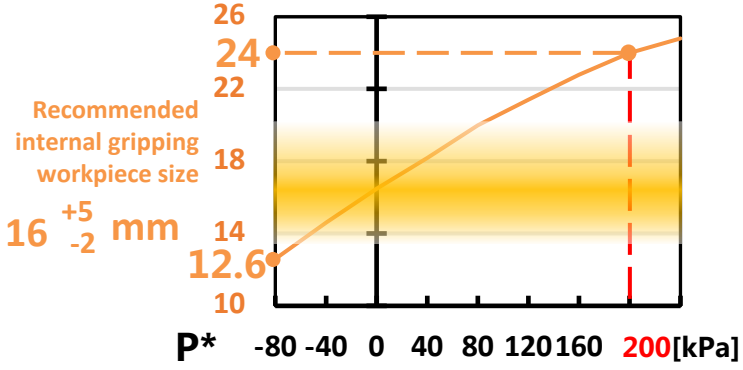




Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

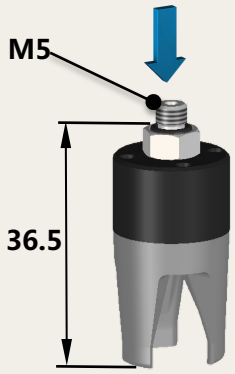
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+200kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	0-2N	BMC Weight	10.5g	BML Weight	19.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

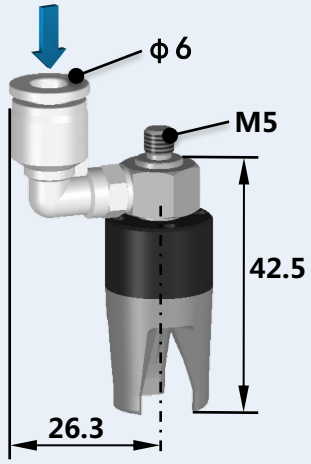
Straight Fitting
Normal Materia
BMC-3A18[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3A18[HAS]/S

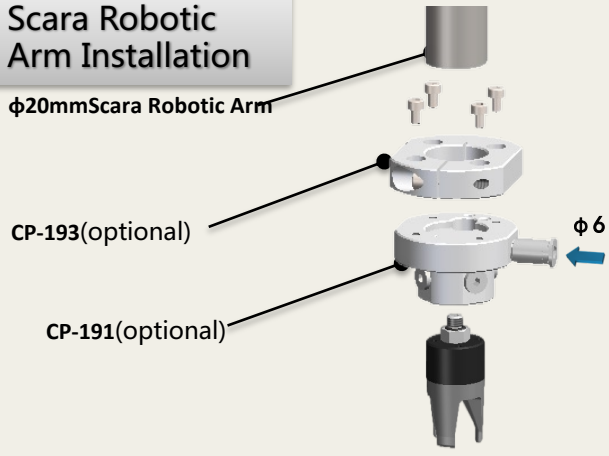


Side Fitting
Normal Material
BML-3A18[H]/S

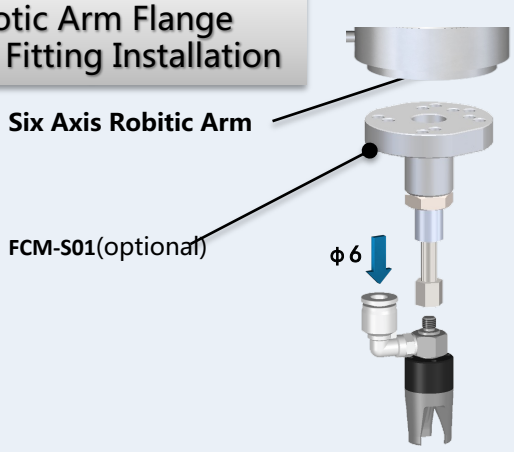
Side Fitting
Dust-free Normal Material
BML-3A18[HAS]/S



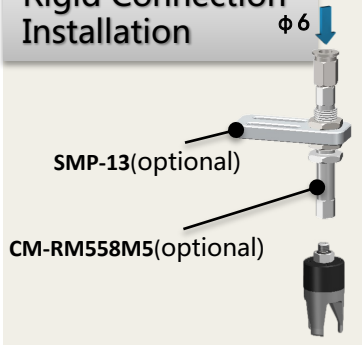
Scara Robotic Arm Installation



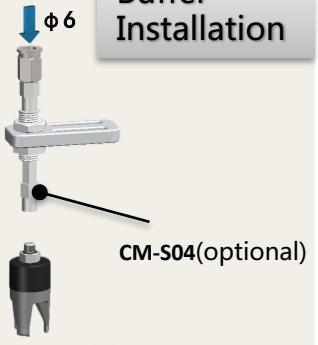
Robotic Arm Flange Side Fitting Installation



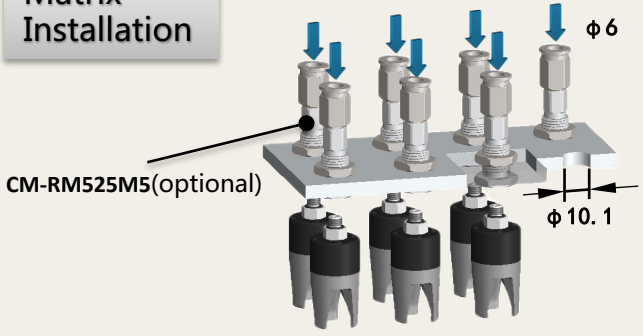
Rigid Connection Installation



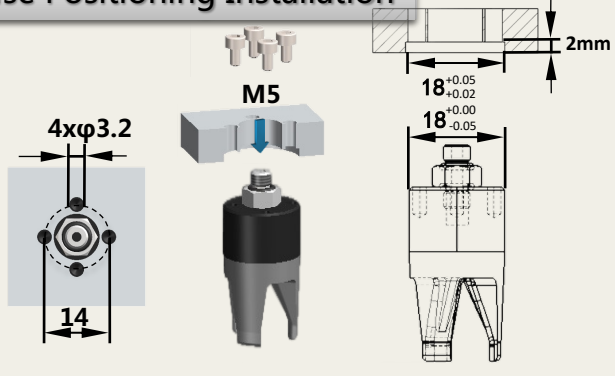
Buffer Installation



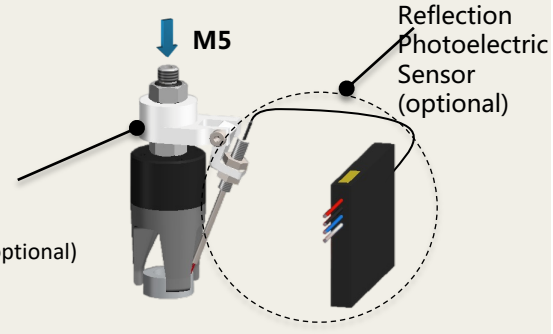
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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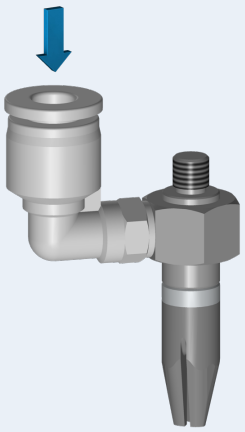
BM

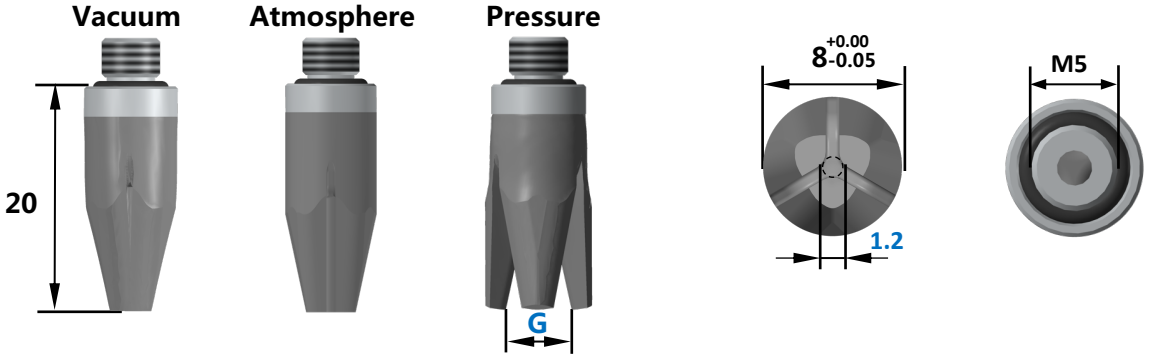
Product features

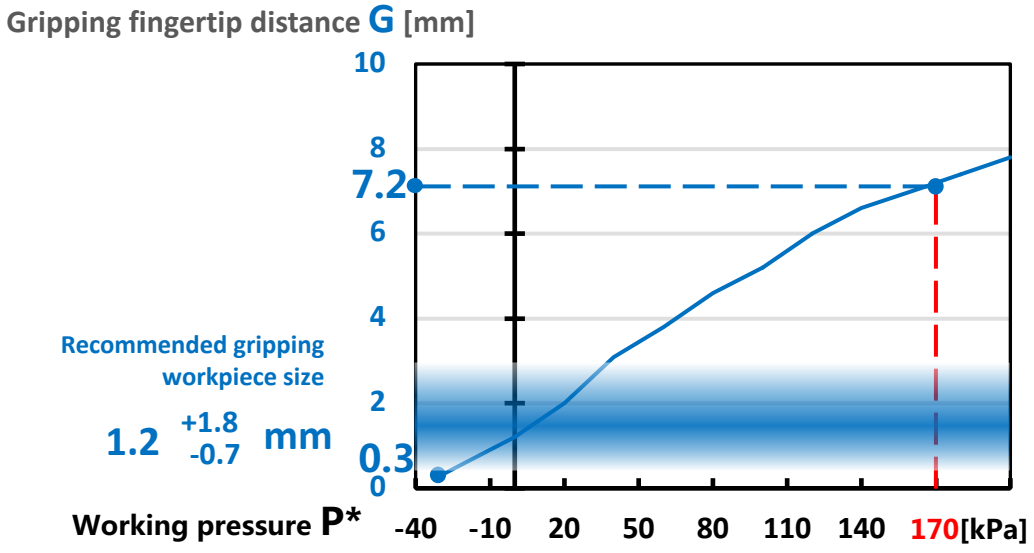
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

Straight Fitting Normal Materia BMC-3B08[H]/S	**Side Fitting Normal Material BML-3B08[H]/S**
Straight Fitting Dust-free Normal Material **BMC-3B08[HAS]/S**	**Side Fitting** Dust-free Normal Material **BML-3B08[HAS]/S**









Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	4g	Lifetime	1.5 million times*	Safe Pressure	+170kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.04N	Internal gripping force	×	BMC Weight	5g	BML Weight	14g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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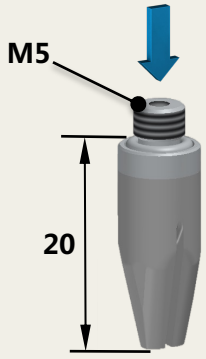
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Installation

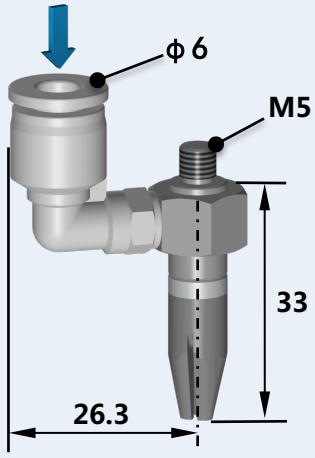
Straight Fitting
Normal Materia
BMC-3B08[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B08[HAS]/S

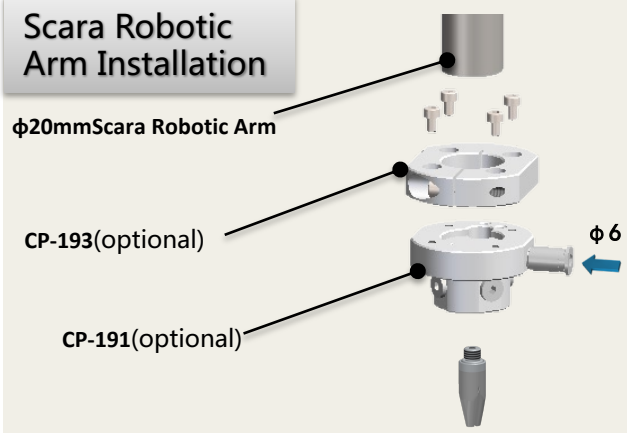


Side Fitting
Normal Material
BML-3B08[H]/S

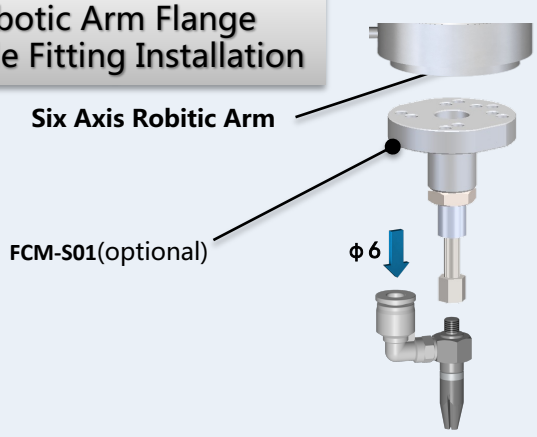
Side Fitting
Dust-free Normal Material
BML-3B08[HAS]/S



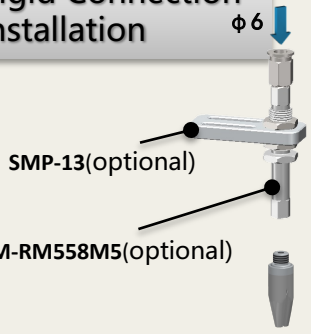
Scara Robotic Arm Installation



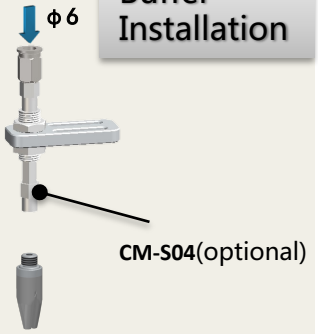
Robotic Arm Flange Side Fitting Installation



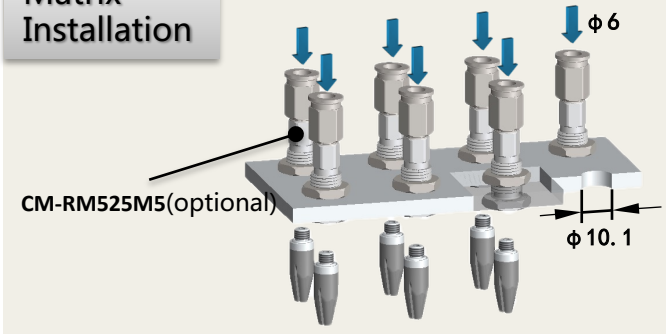
Rigid Connection Installation



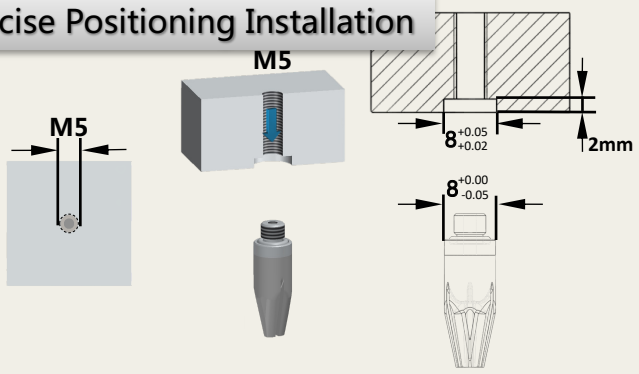
Buffer Installation



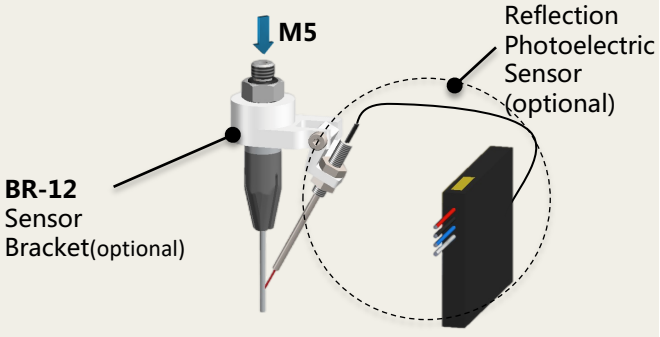
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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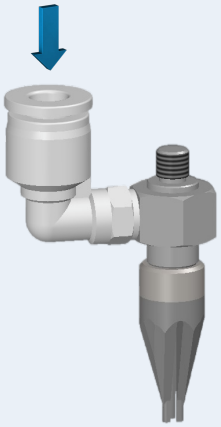
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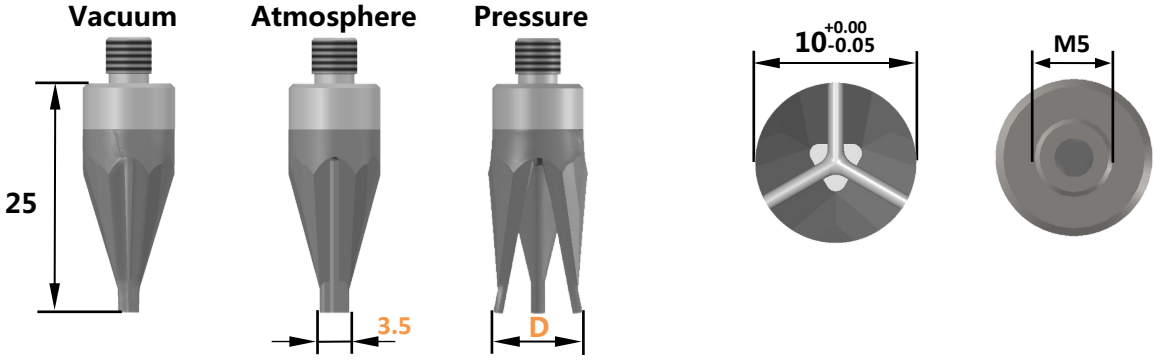
Product features

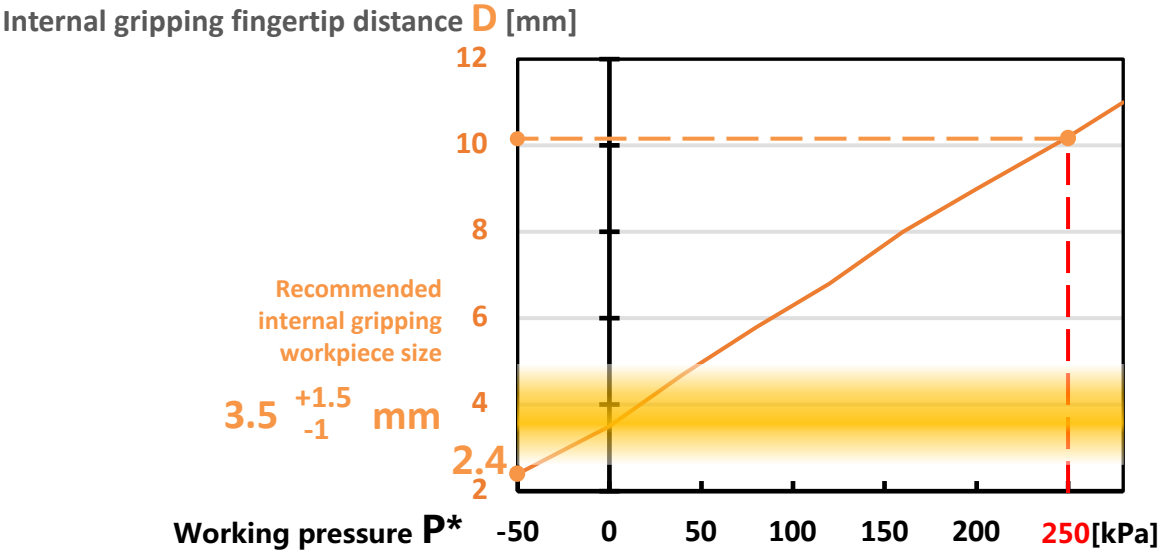
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [H] and Dust-free Normal Material [HAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [HAS] is preferred.

Straight Fitting Normal Materia BMC-3B10[H]/S	**Side Fitting Normal Material BML-3B10[H]/S**
Straight Fitting Dust-free Normal Material BMC-3B10[HAS]/S	**Side Fitting Dust-free Normal Material BML-3B10[HAS]/S**









Parameter

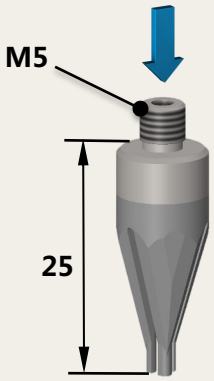
Repetitive Precision	±0.05mm	Recommend -ed Load	2g	Lifetime	1.5 million times*	Safe Pressure	+250kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.02N	BMC Weight	5g	BML Weight	14g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

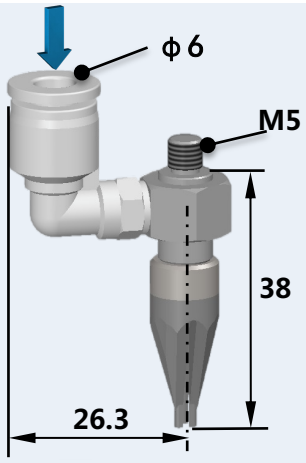
Straight Fitting
Normal Materia
BMC-3B10[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B10[HAS]/S

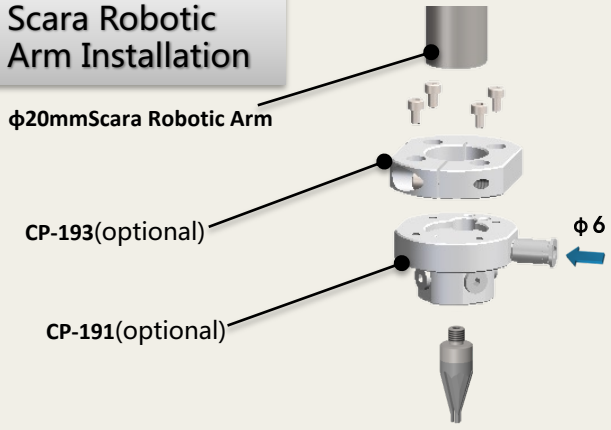


Side Fitting
Normal Material
BML-3B10[H]/S

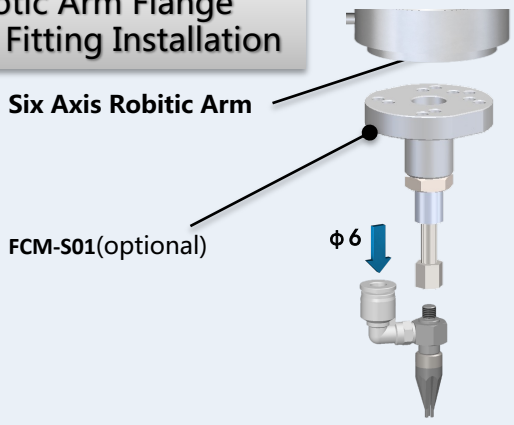
Side Fitting
Dust-free Normal Material
BML-3B10[HAS]/S



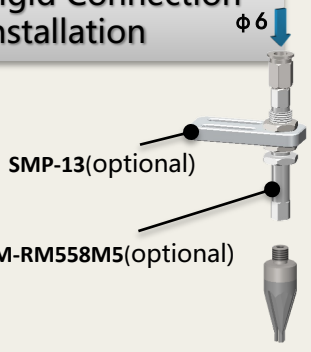
Scara Robotic Arm Installation



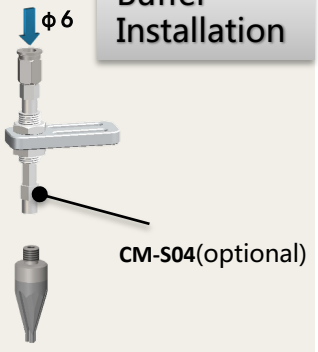
Robotic Arm Flange Side Fitting Installation



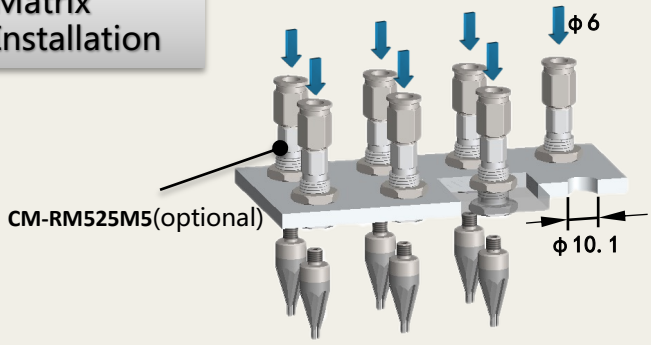
Rigid Connection Installation



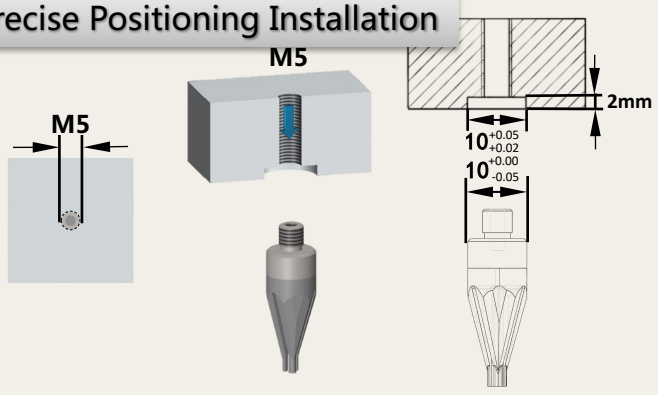
Buffer Installation



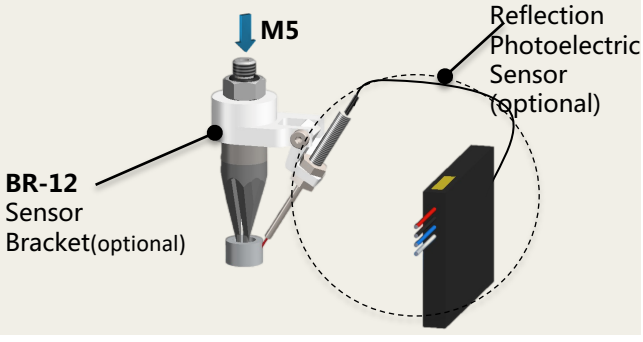
Matrix Installation



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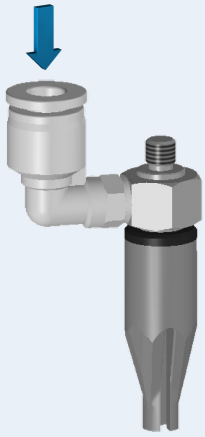
Scan to watch videos

Product features

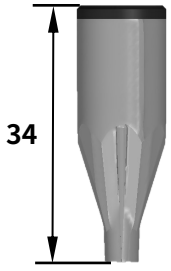
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [H] and Dust-free Normal Material [HAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [HAS] is preferred.

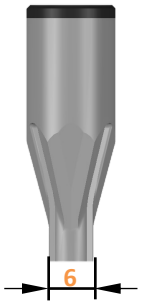
Straight Fitting Normal Materia BMC-3B12[H]/S	**Side Fitting Normal Material BML-3B12[H]/S**
Straight Fitting Dust-free Normal Material BMC-3B12[HAS]/S	**Side Fitting Dust-free Normal Material BML-3B12[HAS]/S**



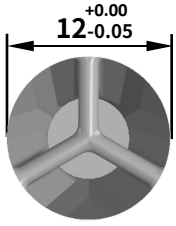


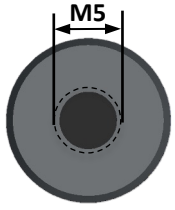
BM



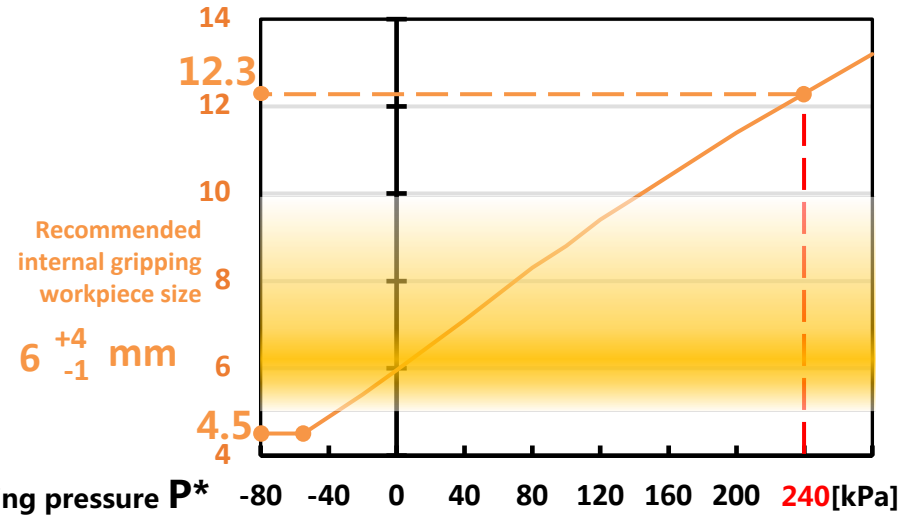








Internal gripping fingertip distance D [mm]



Parameter

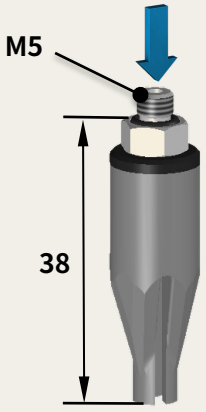
Repetitive Precision	±0.05mm	Recommend -ed Load	10g	Lifetime	1.5 million times*	Safe Pressure	+240kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.1N	BMC Weight	6g	BML Weight	15g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

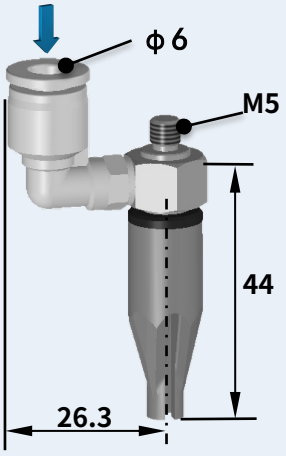
Straight Fitting
Normal Materia
BMC-3B12[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B12[HAS]/S



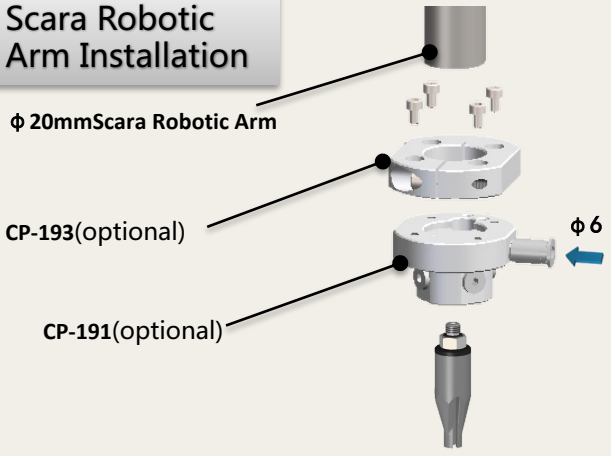
Side Fitting
Normal Material
BML-3B12[H]/S

Side Fitting
Dust-free Normal Material
BML-3B12[HAS]/S

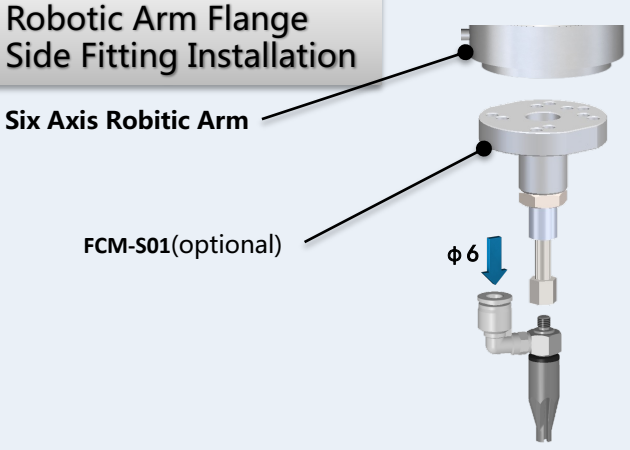


BM

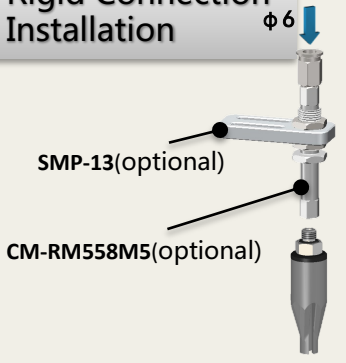
Scara Robotic Arm Installation



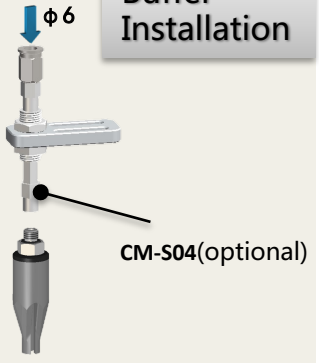
Robotic Arm Flange Side Fitting Installation



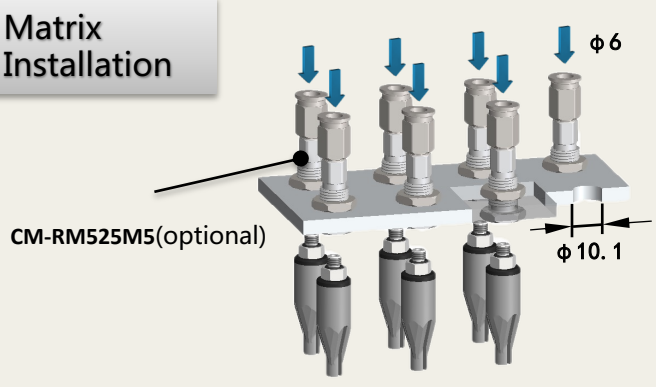
Rigid Connection Installation



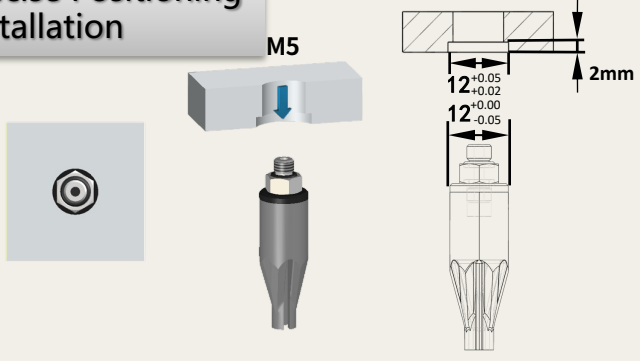
Buffer Installation



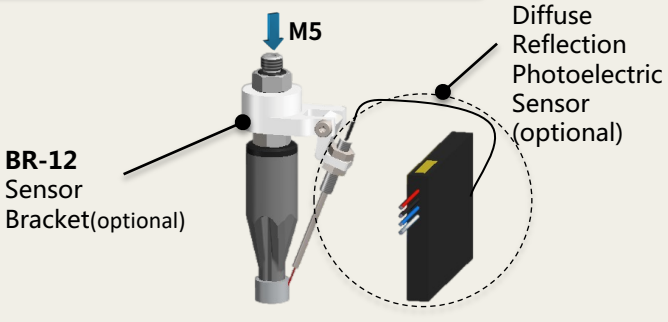
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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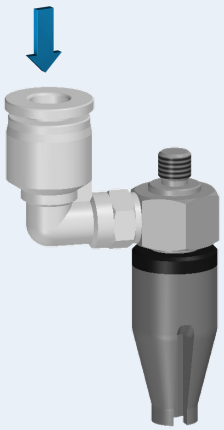
BM

Product features

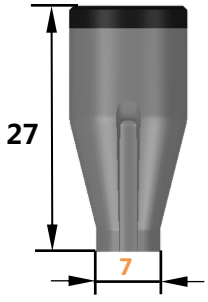
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [H] and Dust-free Normal Material [HAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [HAS] is preferred.

Straight Fitting Normal Materia BMC-3B13[H]/S	**Side Fitting Normal Material BML-3B13[H]/S**
Straight Fitting Dust-free Normal Material BMC-3B13[HAS]/S	**Side Fitting Dust-free Normal Material BML-3B13[HAS]/S**

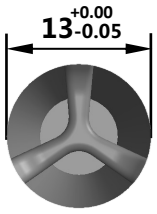


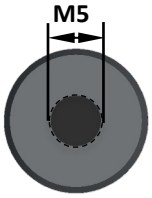




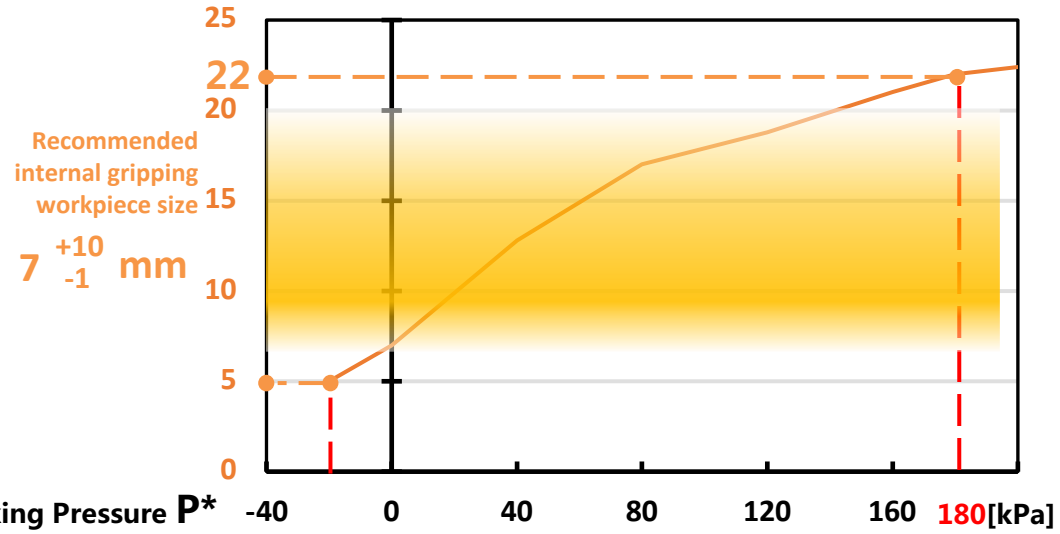








Internal gripping fingertip distance D [mm]



Parameter

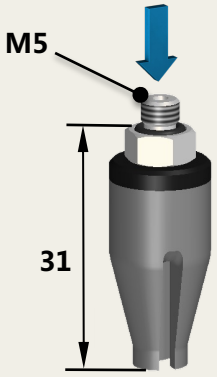
Repetitive Precision	±0.05mm	Recommend -ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.2N	BMC Weight	8g	BML Weight	17g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

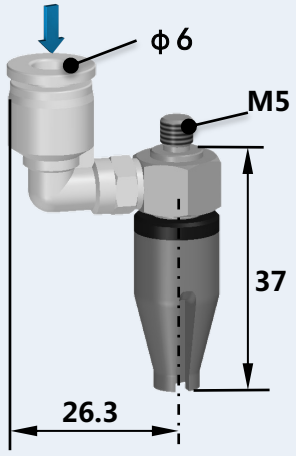
Straight Fitting
Normal Materia
BMC-3B13[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B13[HAS]/S

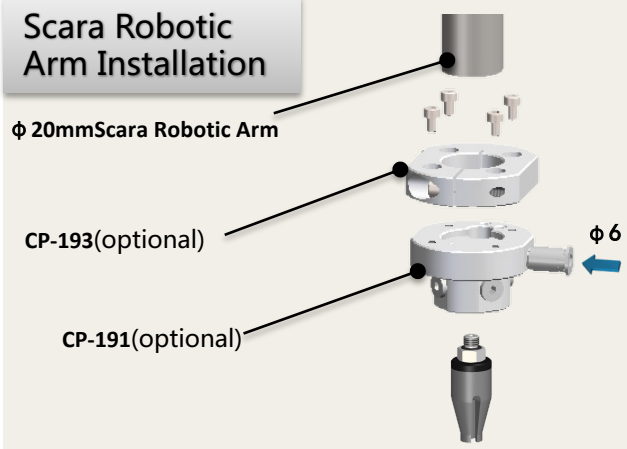


Side Fitting
Normal Material
BML-3B13[H]/S

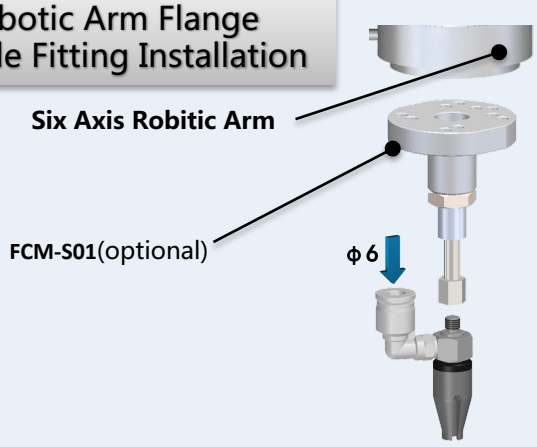
Side Fitting
Dust-free Normal Material
BML-3B13[HAS]/S



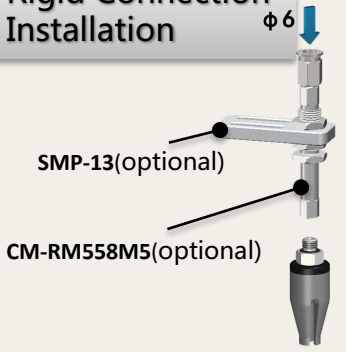
Scara Robotic Arm Installation



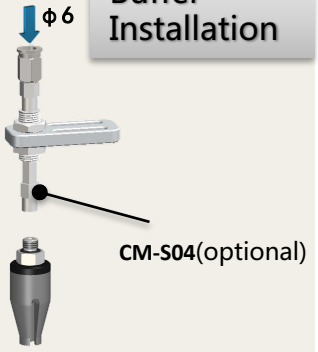
Robotic Arm Flange Side Fitting Installation



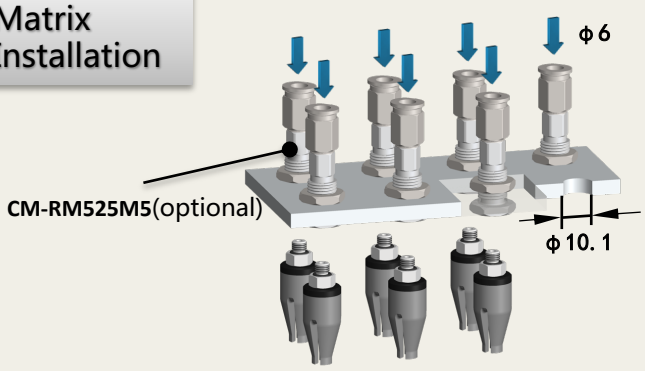
Rigid Connection Installation



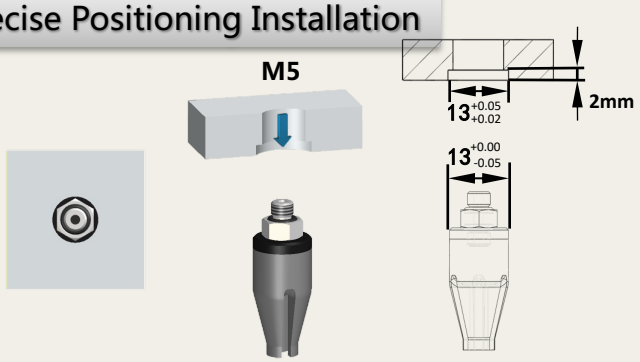
Buffer Installation



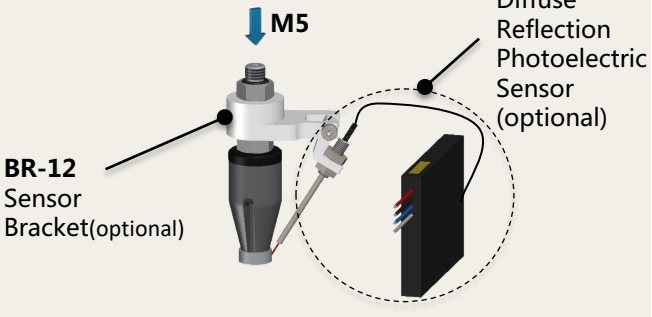
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [P] and Dust-free Normal Material [PAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [PAS] is preferred.

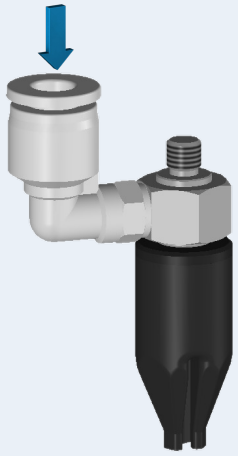
Straight Fitting
Normal Materia
BMC-3B14[P]/S

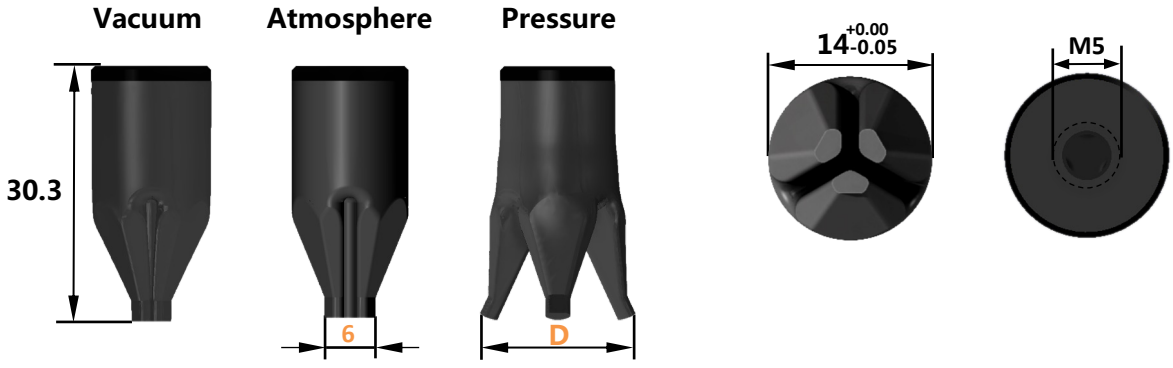
Straight Fitting
Dust-free Normal Material
BMC-3B14[PAS]/S



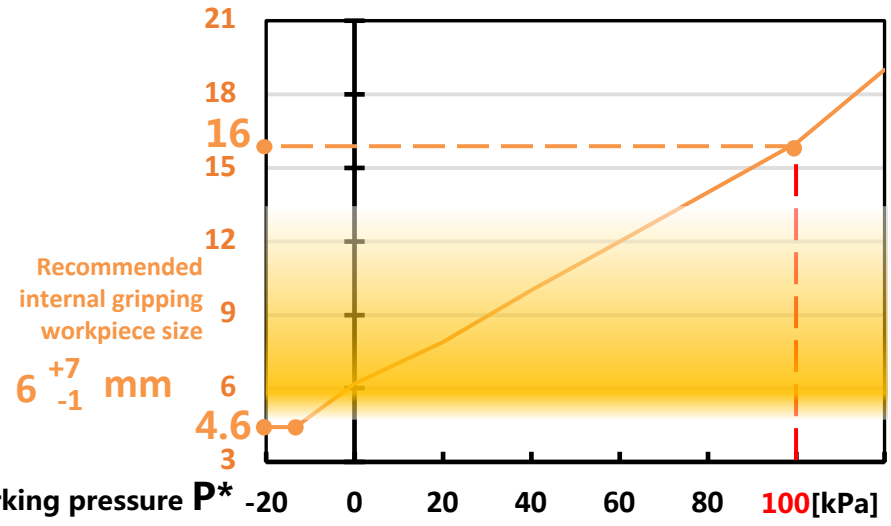
Side Fitting
Normal Material
BML-3B14[P]/S

Side Fitting
Dust-free Normal Material
BML-3B14[PAS]/S





Internal gripping fingertip distance D [mm]



Parameter

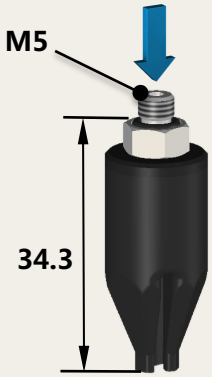
Repetitive Precision	±0.05mm	Recommend -ed Load	12g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.12N	BMC Weight	6g	BML Weight	15g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

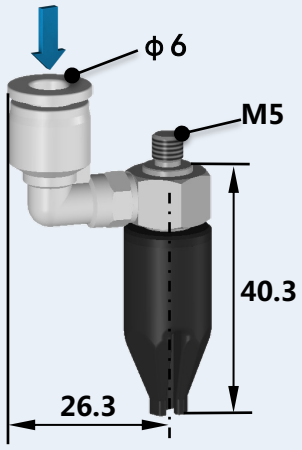
Straight Fitting
Normal Materia
BMC-3B14[P]/S

Straight Fitting
Dust-free Normal Material
BMC-3B14[PAS]/S



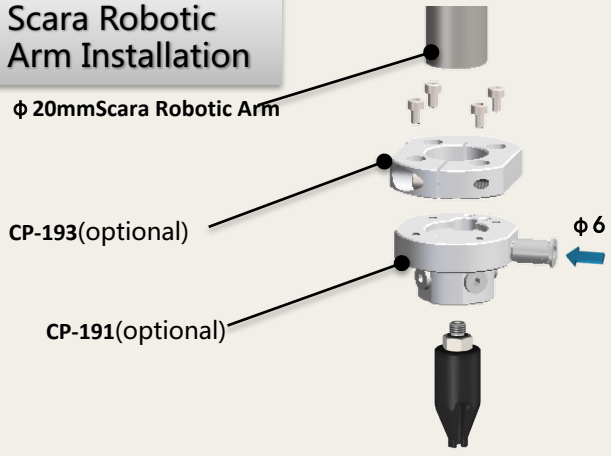
Side Fitting
Normal Material
BML-3B14[P]/S

Side Fitting
Dust-free Normal Material
BML-3B14[PAS]/S

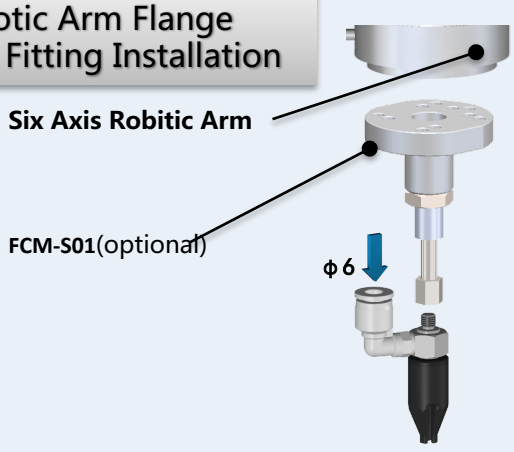


BM

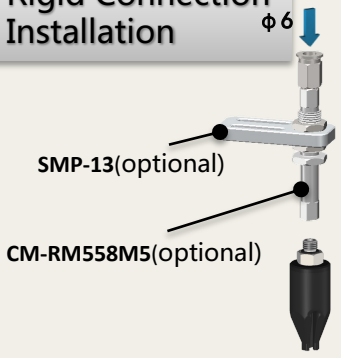
Scara Robotic Arm Installation



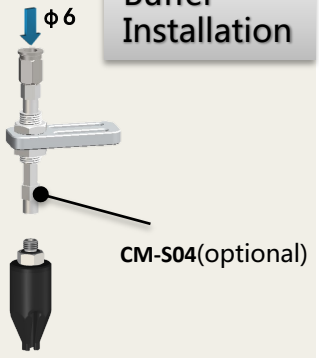
Robotic Arm Flange Side Fitting Installation



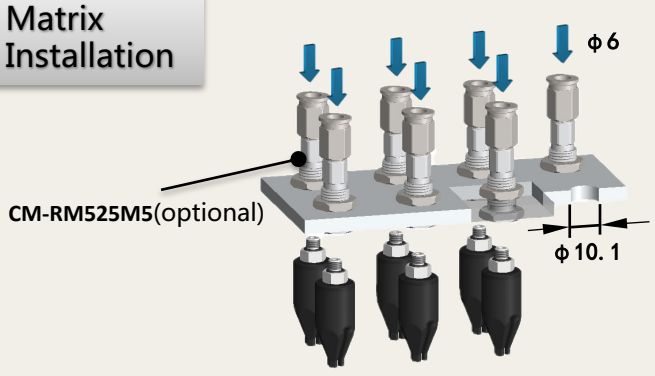
Rigid Connection Installation



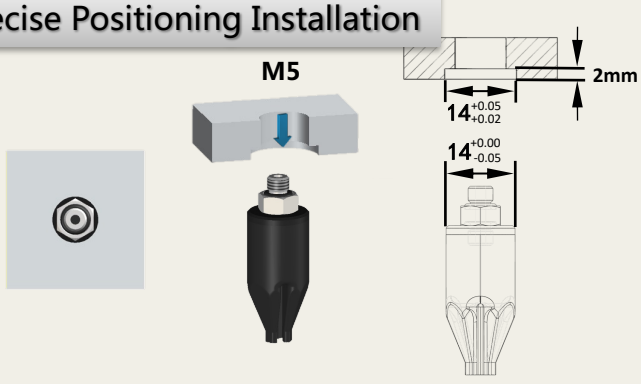
Buffer Installation



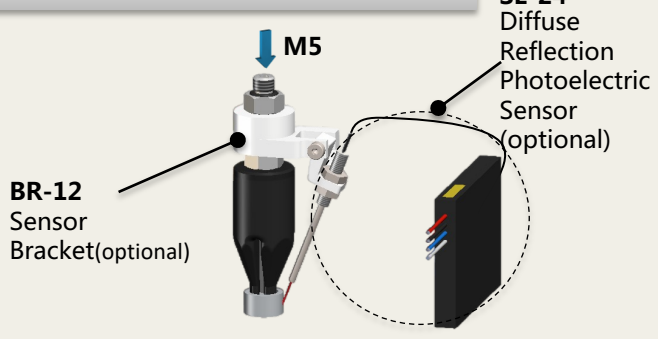
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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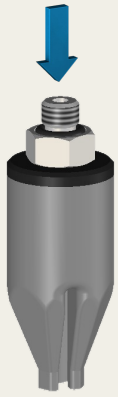
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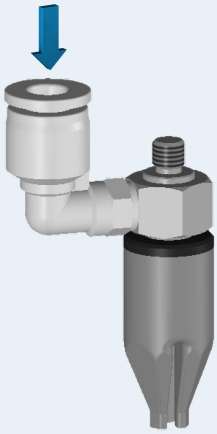
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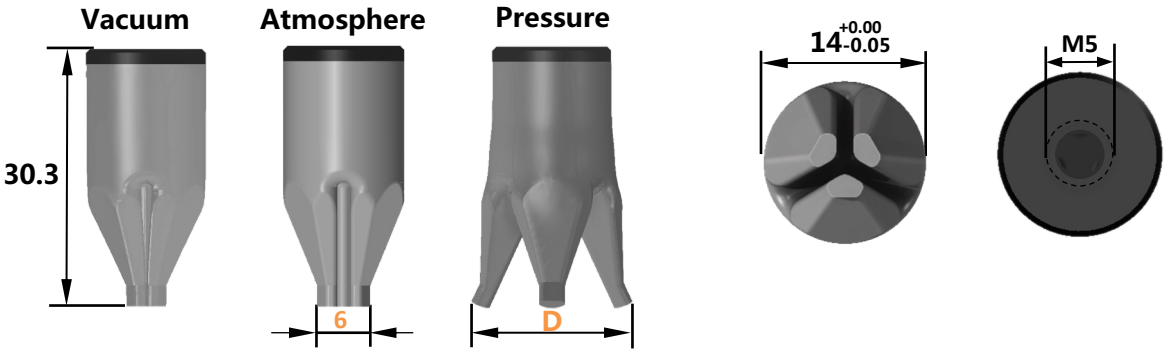
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
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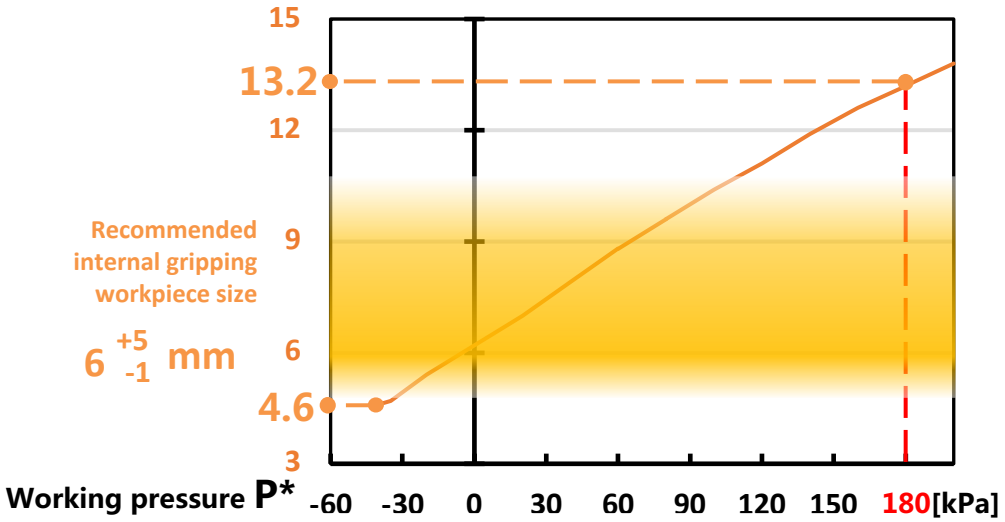
Straight Fitting Normal Materia BMC-3B14[H]/S	**Side Fitting Normal Material BML-3B14[H]/S**
Straight Fitting Dust-free Normal Material BMC-3B14[HAS]/S	**Side Fitting Dust-free Normal Material BML-3B14[HAS]/S**







Internal gripping fingertip distance D [mm]



Parameter

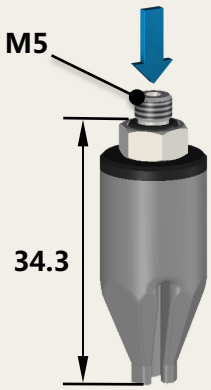
Repetitive Precision	±0.05mm	Recommend -ed Load	12g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.12N	BMC Weight	6.5g	BML Weight	15.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

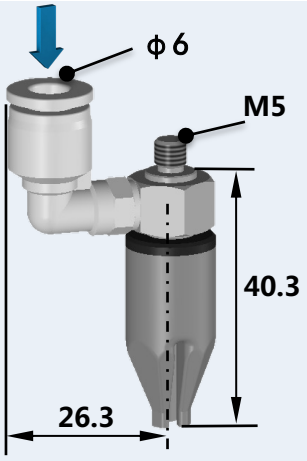
Straight Fitting
Normal Materia
BMC-3B14[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B14[HAS]/S

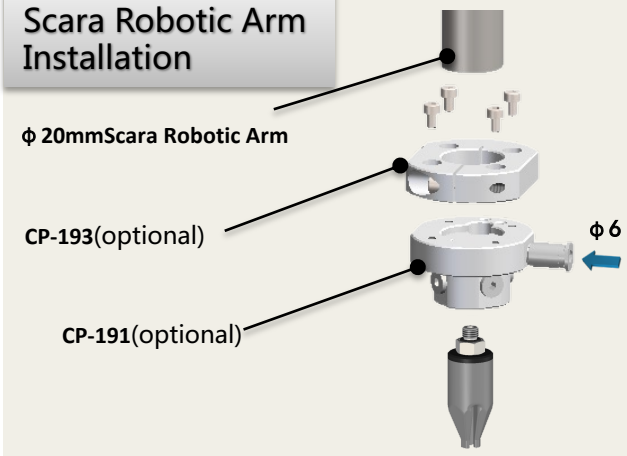


Side Fitting Normal Material
BML-3B14[H]/S

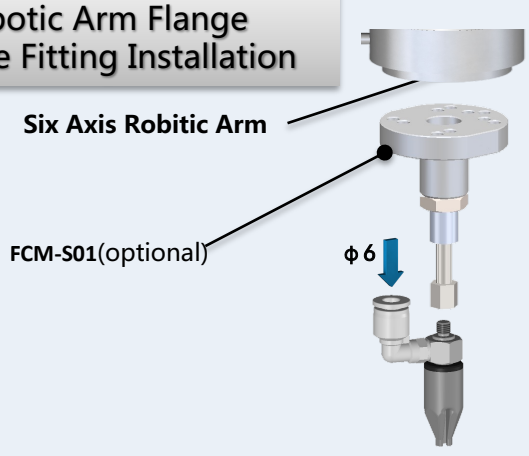
Side Fitting
Dust-free Normal Material
BML-3B14[HAS]/S



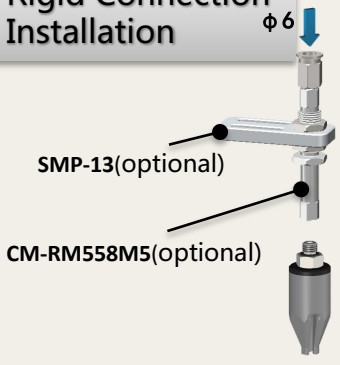
Scara Robotic Arm Installation



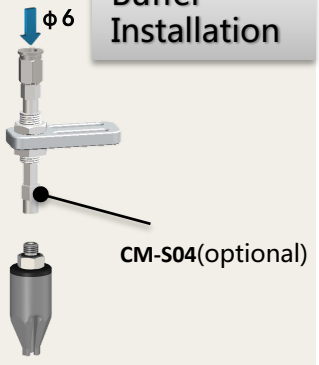
Robotic Arm Flange Side Fitting Installation



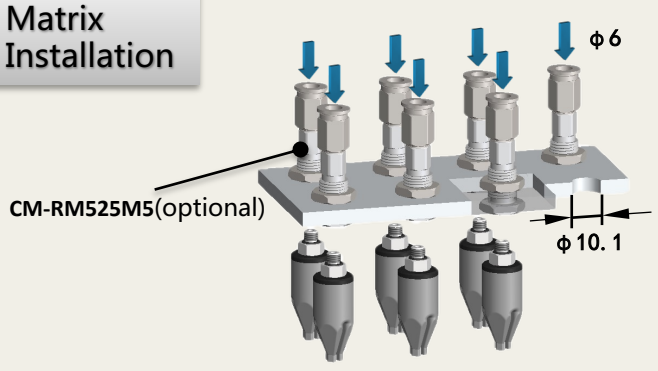
Rigid Connection Installation



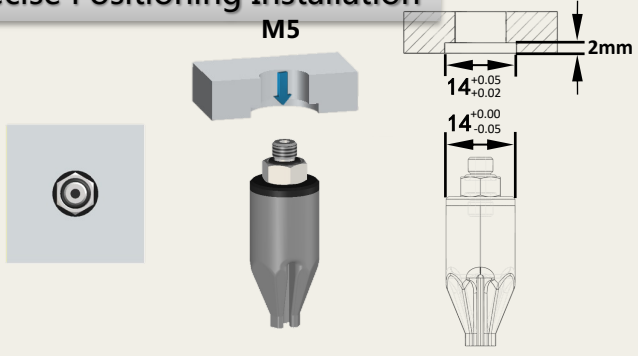
Buffer Installation



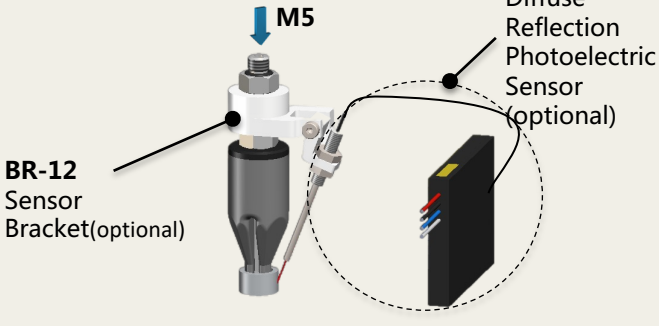
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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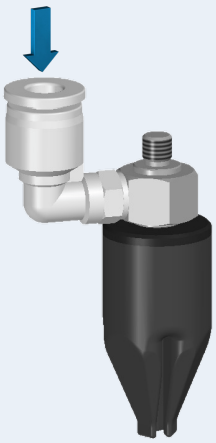
BM

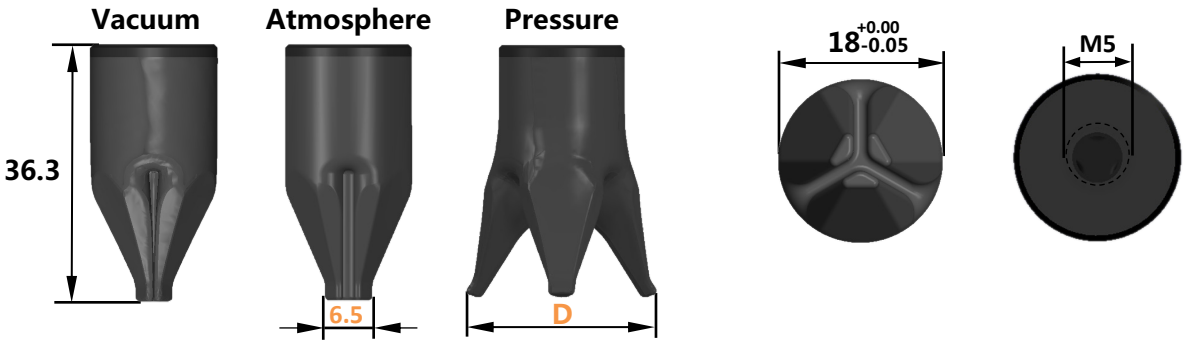
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [P] and Dust-free Normal Material [PAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [PAS] is preferred.

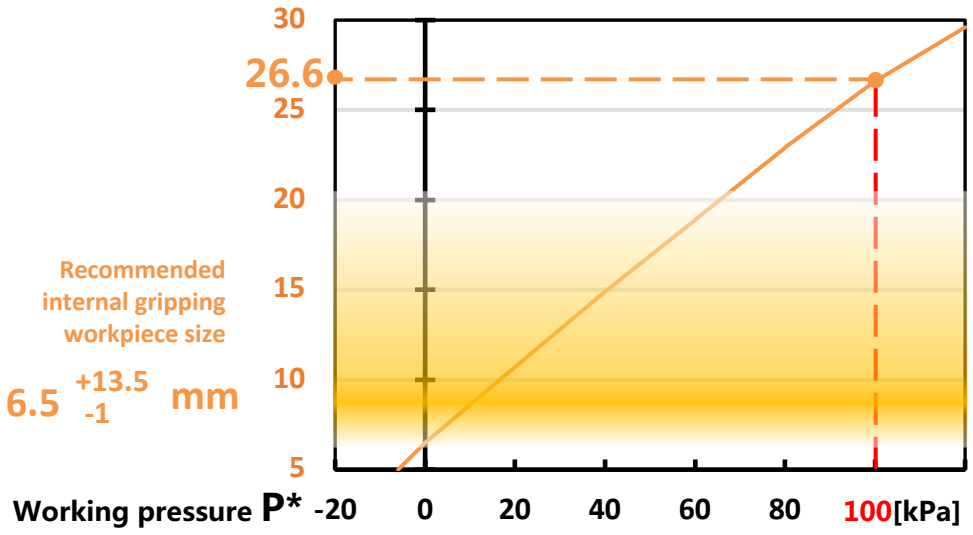
Straight Fitting Normal Materia BMC-3B18[P]/S	**Side Fitting Normal Material BML-3B18[P]/S**
Straight Fitting Dust-free Normal Material BMC-3B18[PAS]/S	**Side Fitting Dust-free Normal Material BML-3B18[PAS]/S**







Internal gripping fingertip distance D [mm]



Parameter

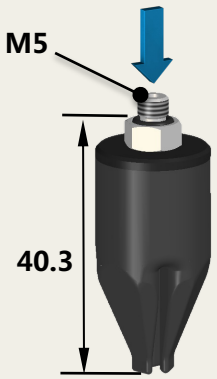
Repetitive Precision	±0.05mm	Recommend -ed Load	15g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.15N	BMC Weight	15g	BML Weight	24g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

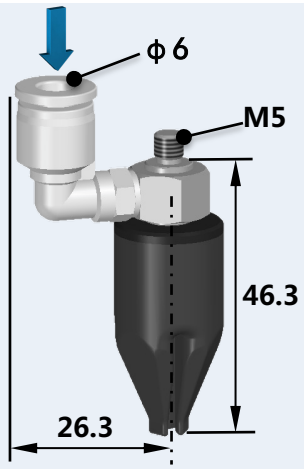
Straight Fitting
Normal Materia
BMC-3B18[P]/S

Straight Fitting
Dust-free Normal Material
BMC-3B18[PAS]/S

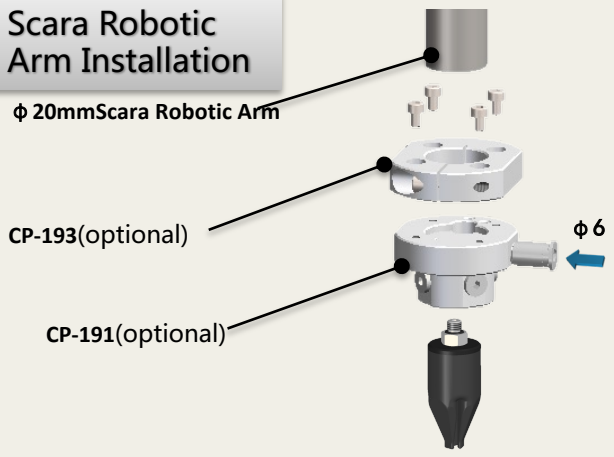


Side Fitting
Normal Material
BML-3B18[P]/S

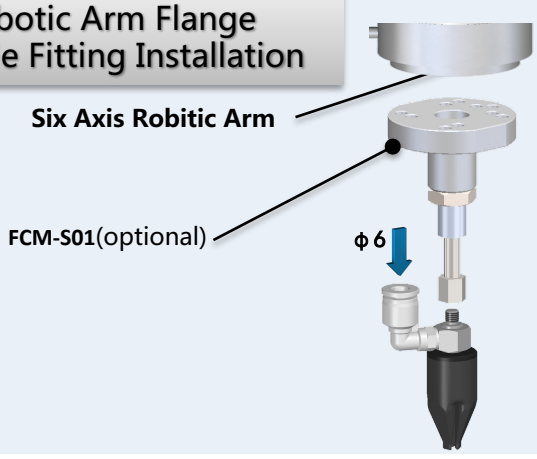
Side Fitting
Dust-free Normal Material
BML-3B18[PAS]/S



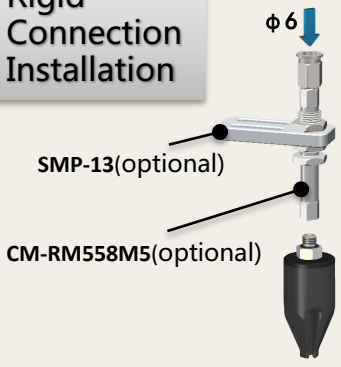
Scara Robotic Arm Installation



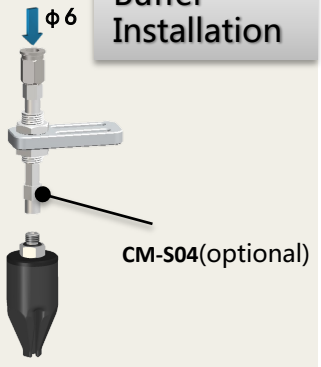
Robotic Arm Flange Side Fitting Installation



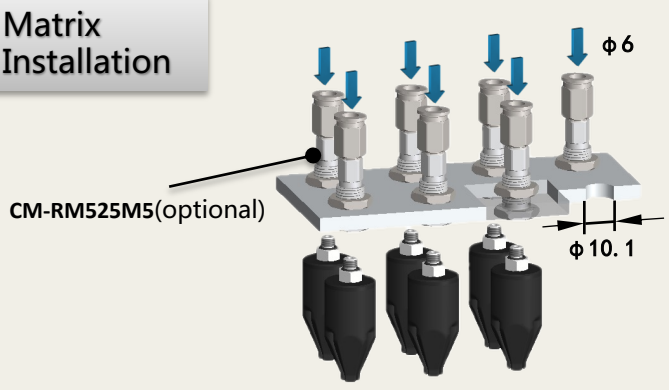
Rigid Connection Installation



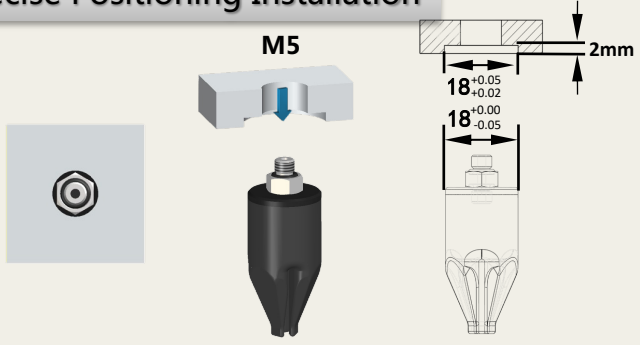
Buffer Installation



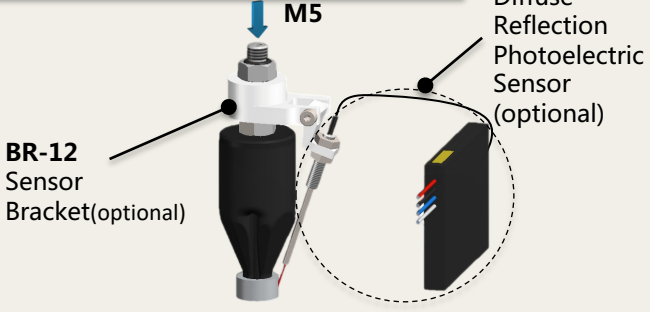
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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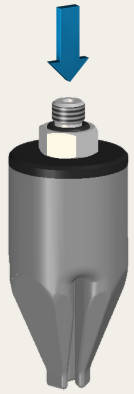
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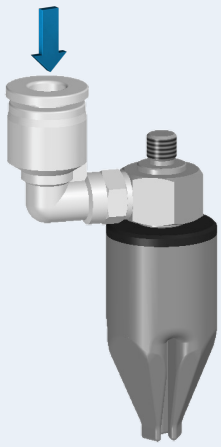
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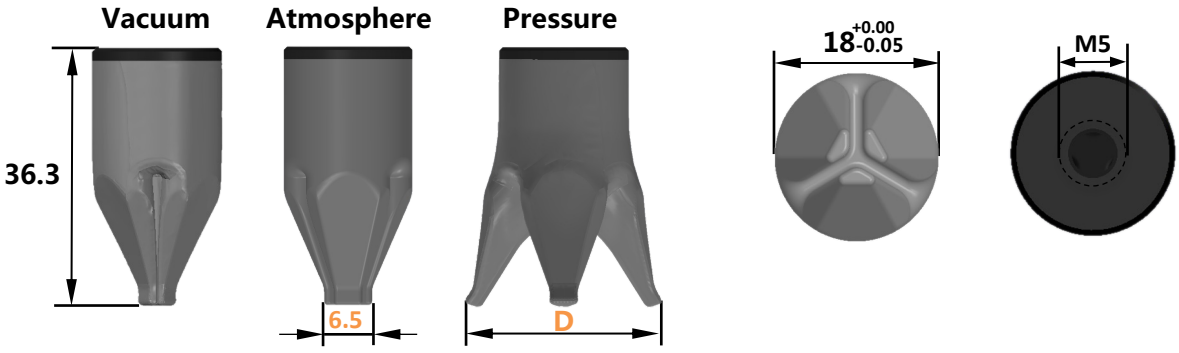
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance D can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [H] and Dust-free Normal Material [HAS]. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material [HAS] is preferred.

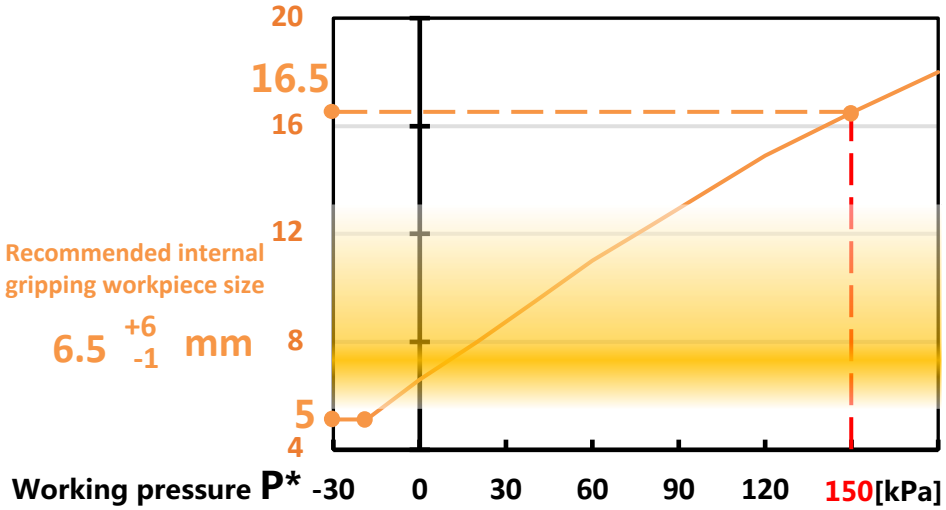
Straight Fitting Normal Materia BMC-3B18[H]/S	**Side Fitting Normal Material BML-3B18[H]/S**
Straight Fitting Dust-free Normal Material BMC-3B18[HAS]/S	**Side Fitting Dust-free Normal Material BML-3B18[HAS]/S**







Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	15g	Lifetime	1.5 million times*	Safe Pressure	+150kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.15N	BMC Weight	16.5g	BML Weight	25.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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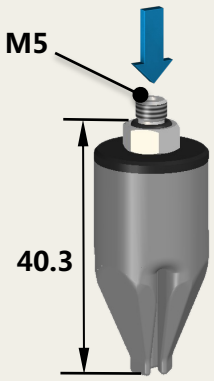
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Installation

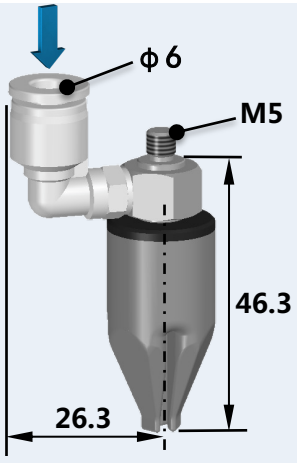
Straight Fitting
Normal Materia
BMC-3B18[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B18[HAS]/S

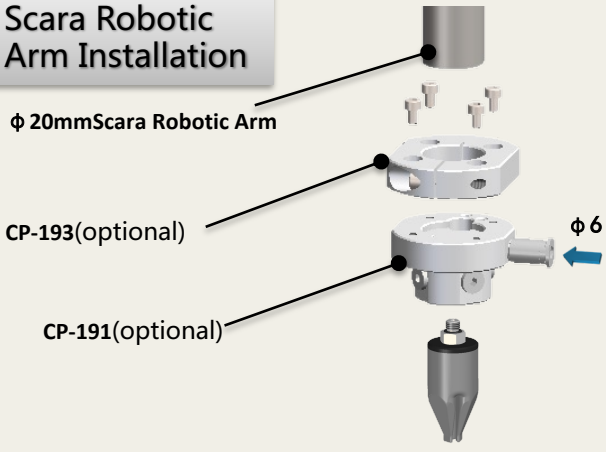


Side Fitting
Normal Material
BML-3B18[H]/S

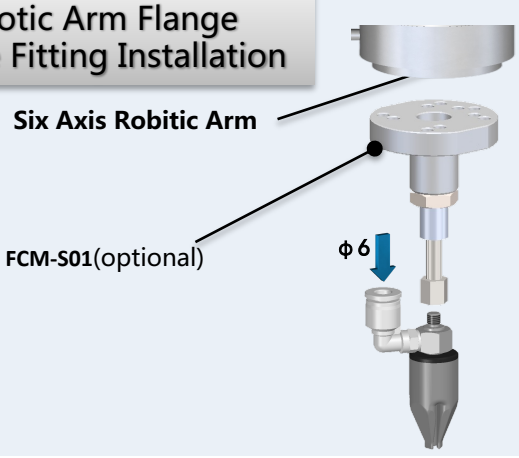
Side Fitting
Dust-free Normal Material
BML-3B18[HAS]/S



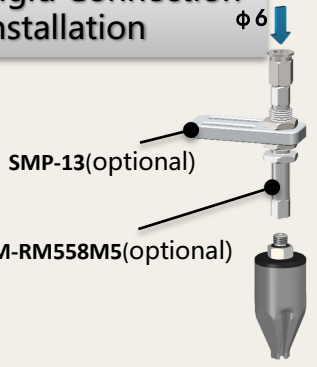
Scara Robotic Arm Installation



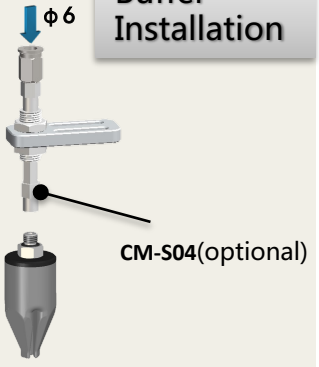
Robotic Arm Flange Side Fitting Installation



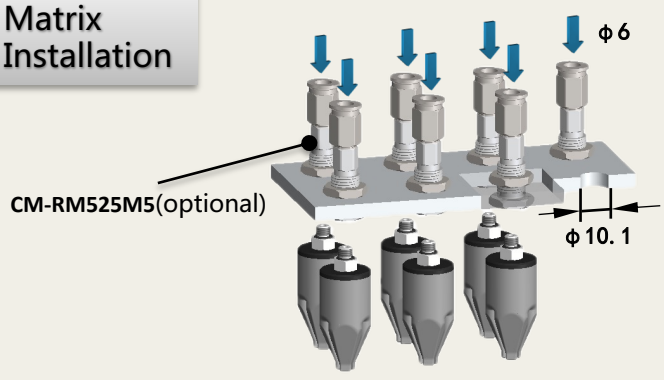
Rigid Connection Installation



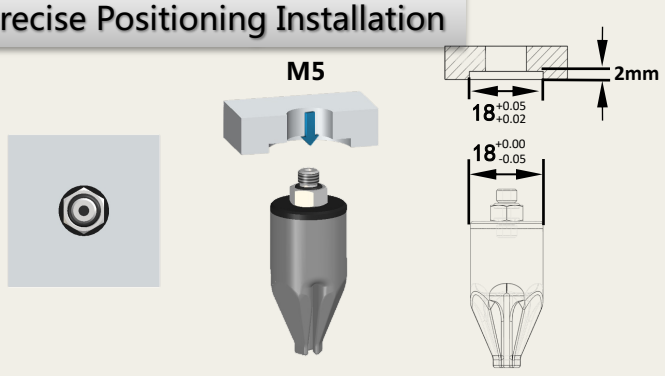
Buffer Installation



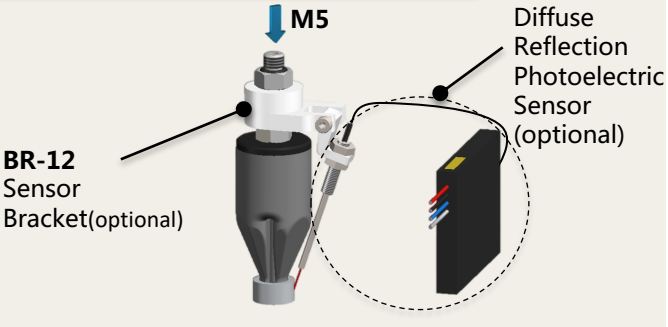
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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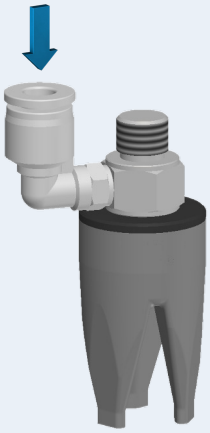
BM

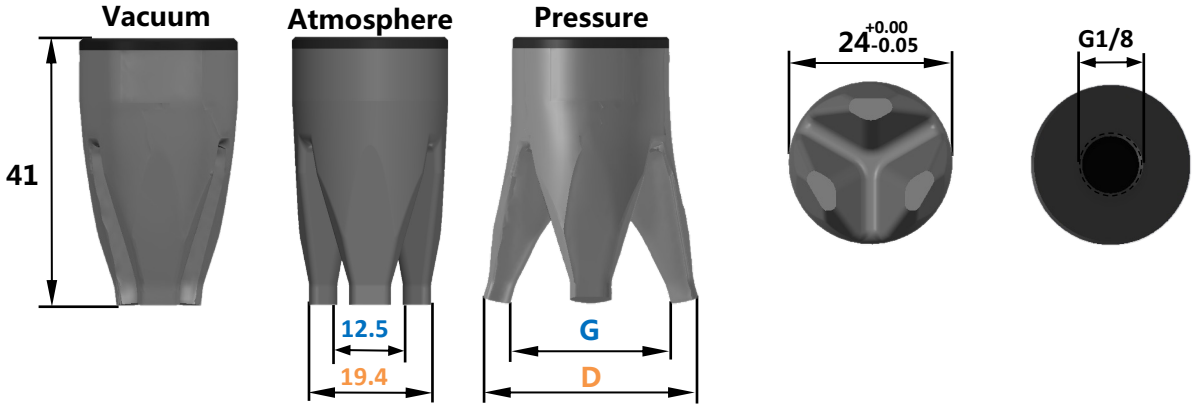
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

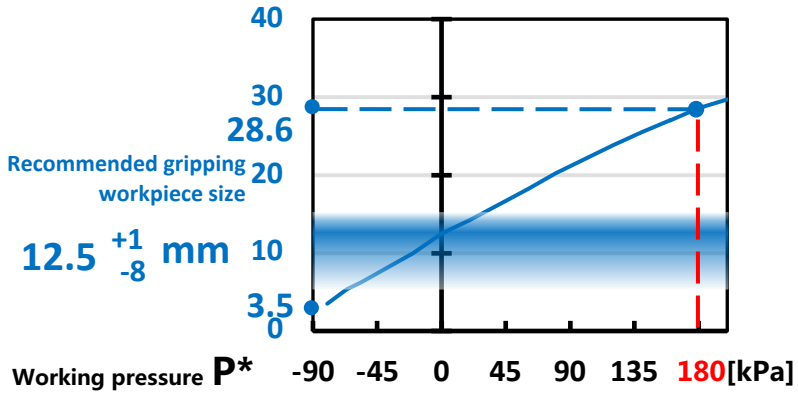
Straight Fitting Normal Materia BMC-3B24[H]/S	**Side Fitting Normal Material BML-3B24[H]/S**
Straight Fitting Dust-free Normal Material BMC-3B24[HAS]/S	**Side Fitting Dust-free Normal Material BML-3B24[HAS]/S**



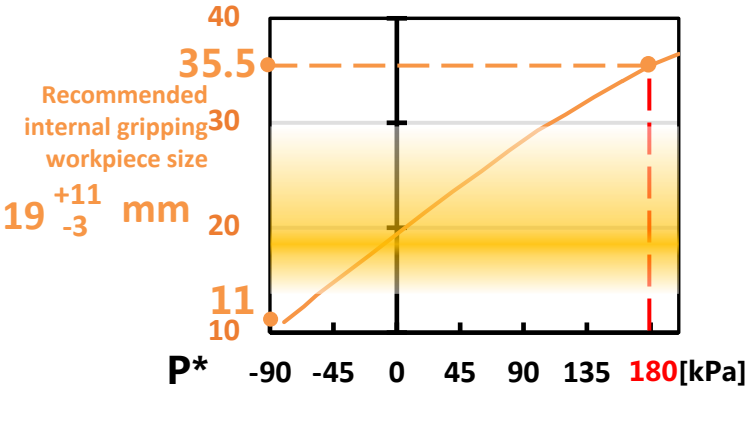




Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

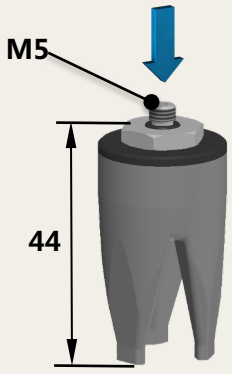
Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.1N	Internal gripping force	0-0.3N	BMC Weight	25.5g	BML Weight	40.5g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

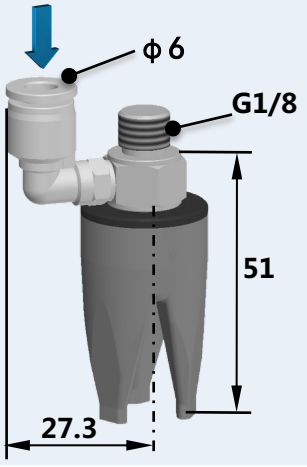
Straight Fitting
Normal Materia
BMC-3B24[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3B24[HAS]/S

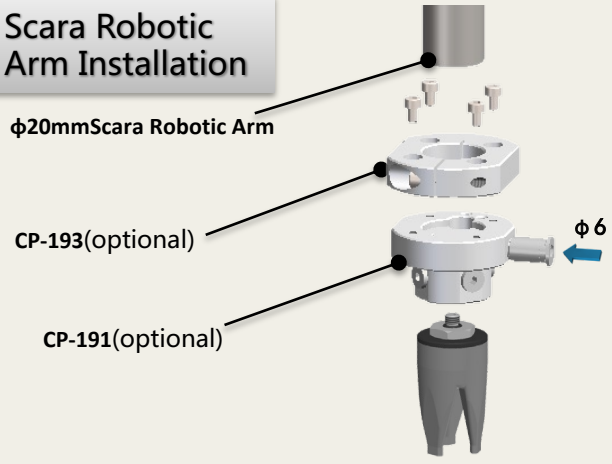


Side Fitting
Normal Material
BML-3B24[H]/S

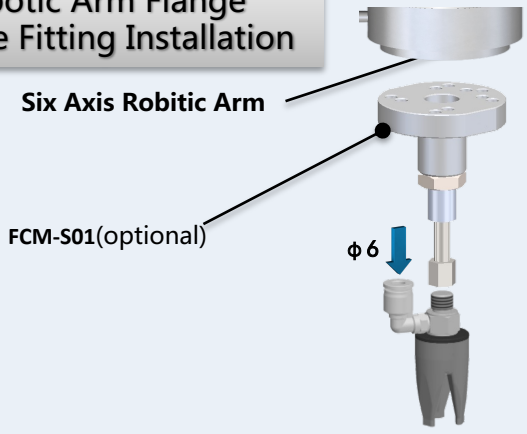
Side Fitting
Dust-free Normal Material
BML-3B24[HAS]/S



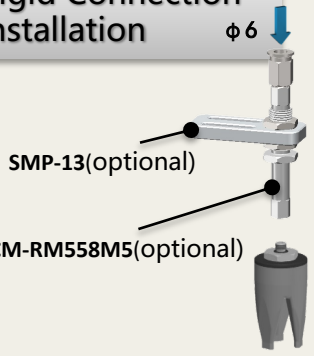
Scara Robotic Arm Installation



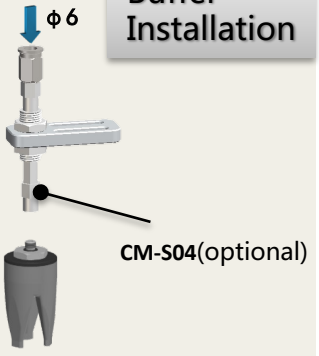
Robotic Arm Flange Side Fitting Installation



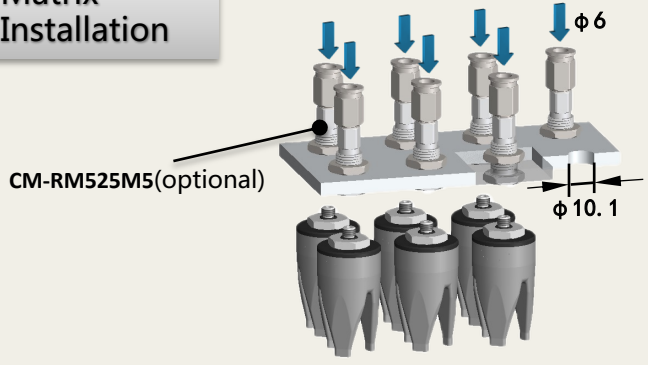
Rigid Connection Installation



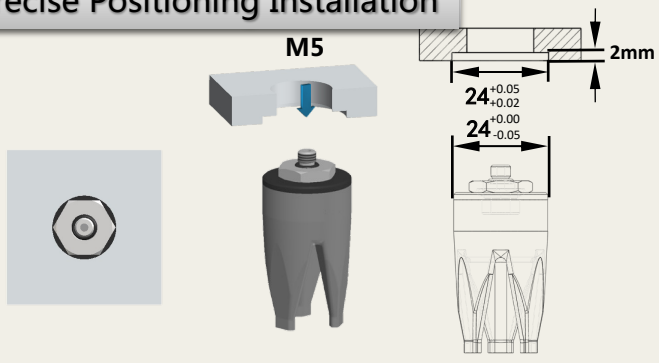
Buffer Installation



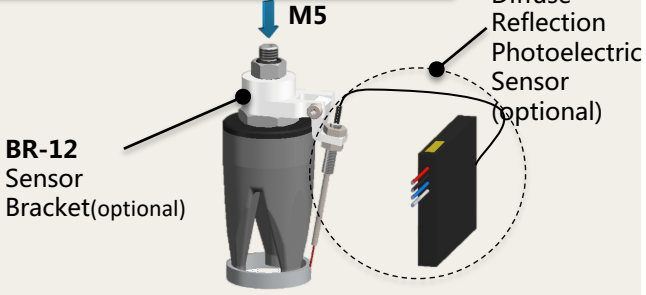
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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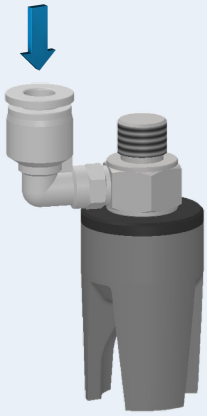
Scan to watch videos

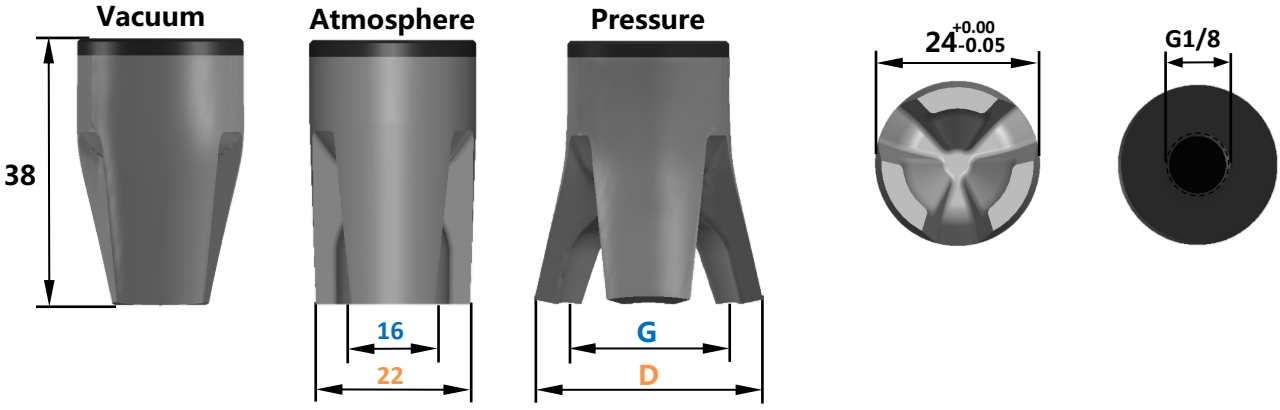
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

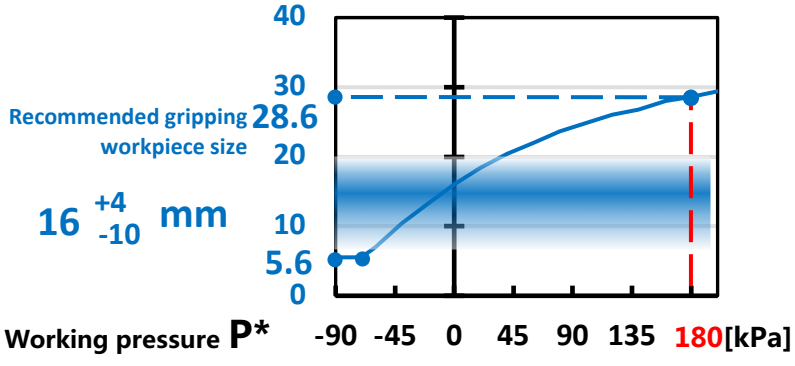
Straight Fitting Normal Materia BMC-3C24[H]/S	**Side Fitting Normal Material BML-3C24[H]/S**
Straight Fitting Dust-free Normal Material BMC-3C24[HAS]/S	**Side Fitting Dust-free Normal Material BML-3C24[HAS]/S**



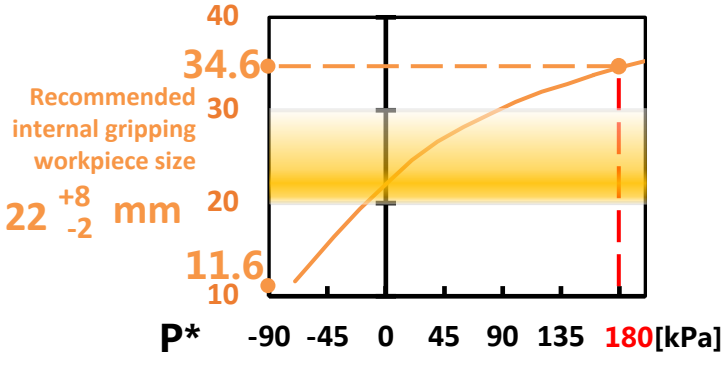




Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

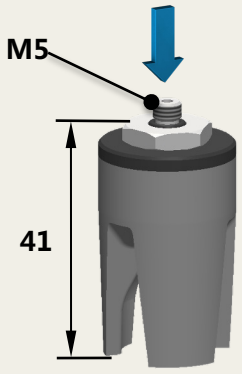
Repetitive Precision	±0.05mm	Recommend -ed Load	80g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.8N	Internal gripping force	0-1N	BMC Weight	20g	BML Weight	35g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

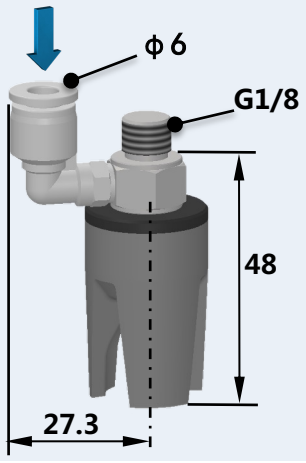
Straight Fitting
Normal Materia
BMC-3C24[H]/S

Straight Fitting
Dust-free Normal Material
BMC-3C24[HAS]/S

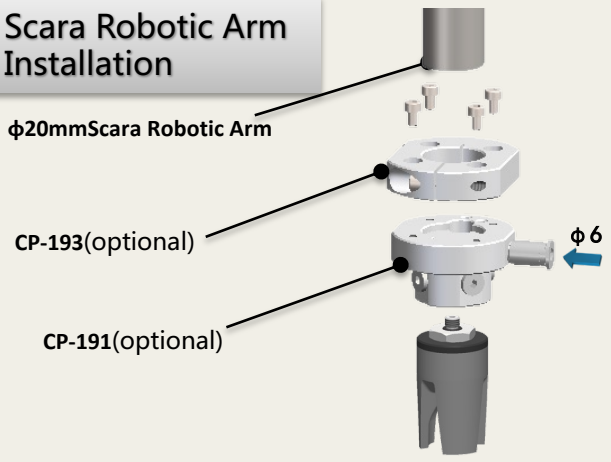


Side Fitting
Normal Material
BML-3C24[H]/S

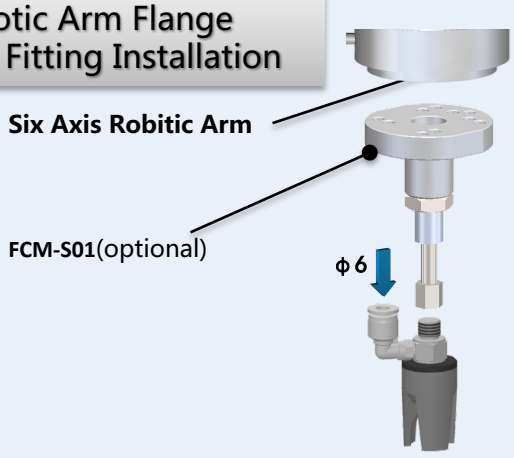
Side Fitting
Dust-free Normal Material
BML-3C24[HAS]/S



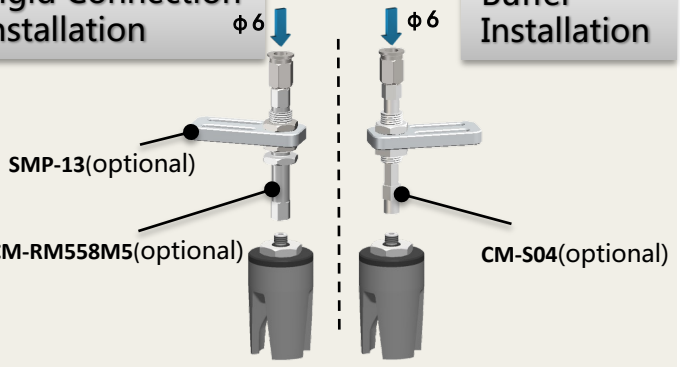
Scara Robotic Arm Installation



Robotic Arm Flange Side Fitting Installation

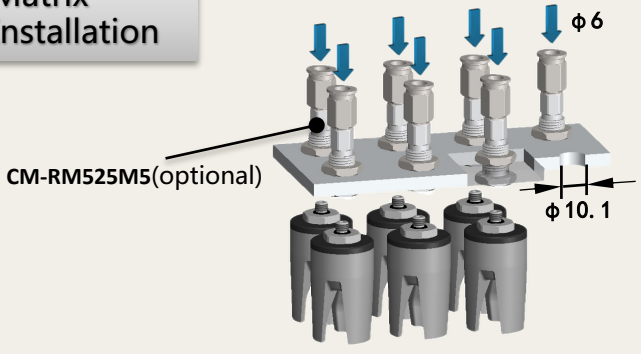


Rigid Connection Installation

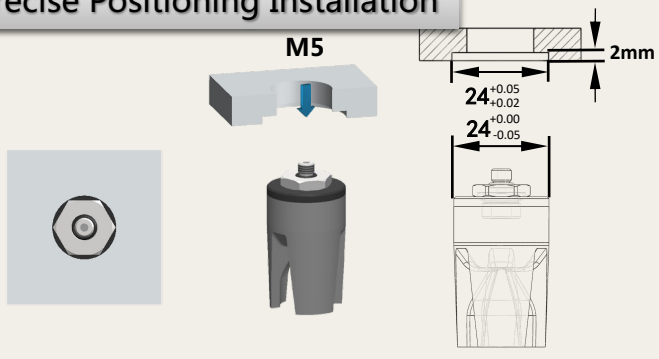


Buffer Installation

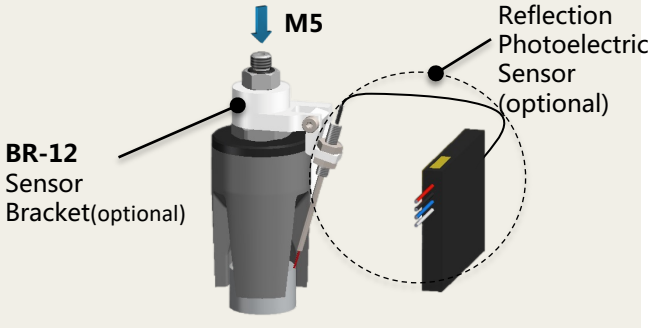
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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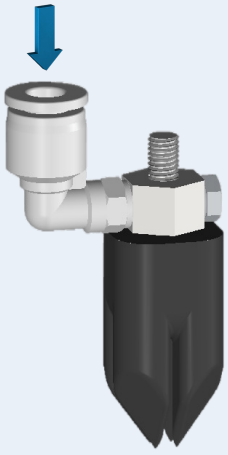
BM

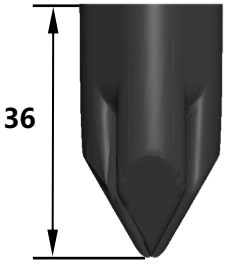
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting Normal Materia BMC-4B18[P]	**Side Fitting Normal Material BML-4B18[P]**
Straight Fitting Dust-free Normal Material BMC-4B18[PAS]	**Side Fitting Dust-free Normal Material BML-4B18[PAS]**

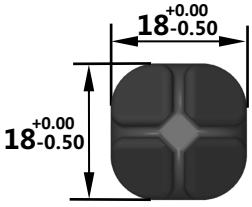


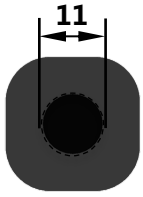




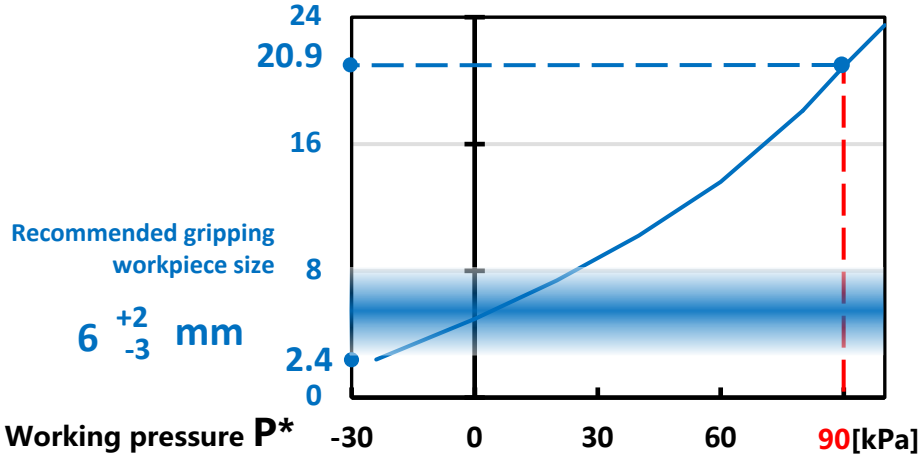








Gripping fingertip distance **G** [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	5g	Lifetime	1.5 million times*	Safe Pressure	+90kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.05N	Internal gripping force	×	BMC Weight	13.6g	BML Weight	22g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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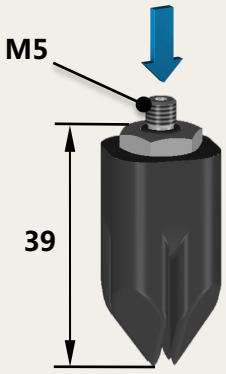
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Installation

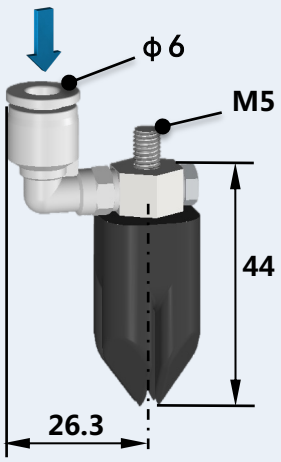
Straight Fitting
Normal Materia
BMC-4B18[P]

Straight Fitting
Dust-free Normal Material
BMC-4B18[PAS]



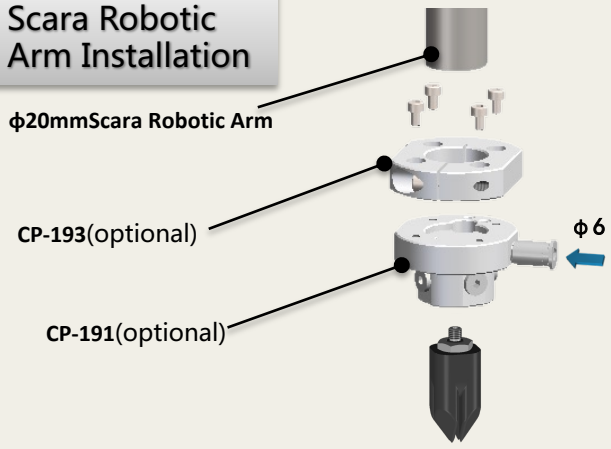
Side Fitting
Normal Material
BML-4B18[P]

Side Fitting
Dust-free Normal Material
BML-4B18[PAS]

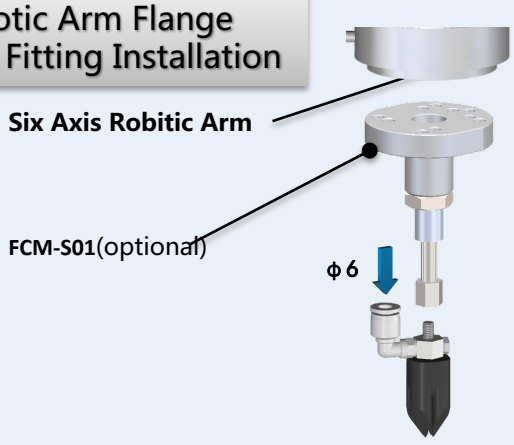


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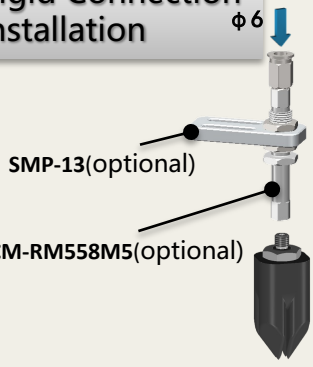
Scara Robotic Arm Installation



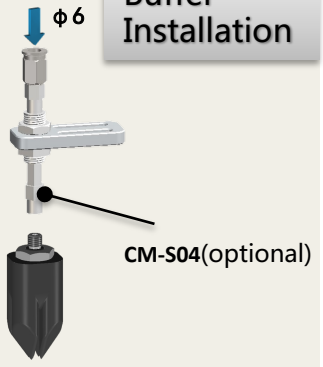
Robotic Arm Flange Side Fitting Installation



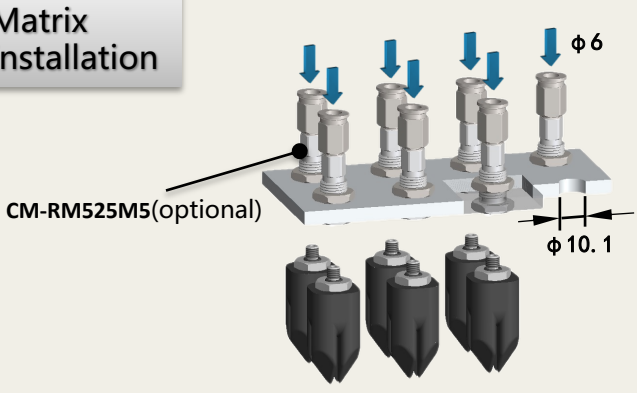
Rigid Connection Installation



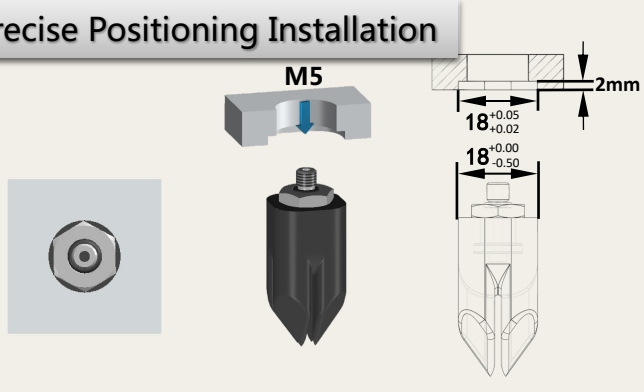
Buffer Installation



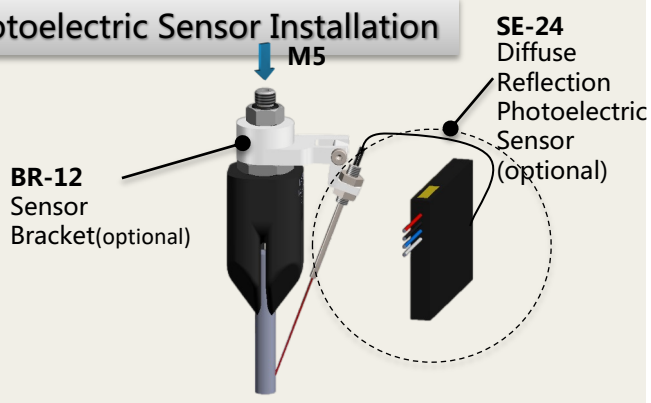
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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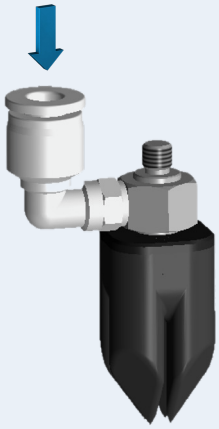
BM

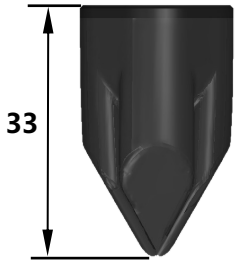
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

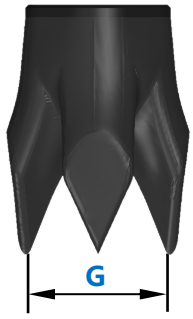
Straight Fitting Normal Materia BMC-4B18[P]/S	**Side Fitting Normal Material BML-4B18[P]/S**
Straight Fitting Dust-free Normal Material BMC-4B18[PAS]/S	**Side Fitting Dust-free Normal Material BML-4B18[PAS]/S**

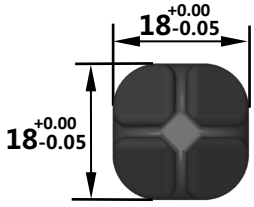


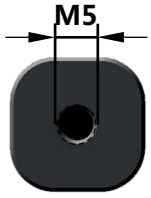




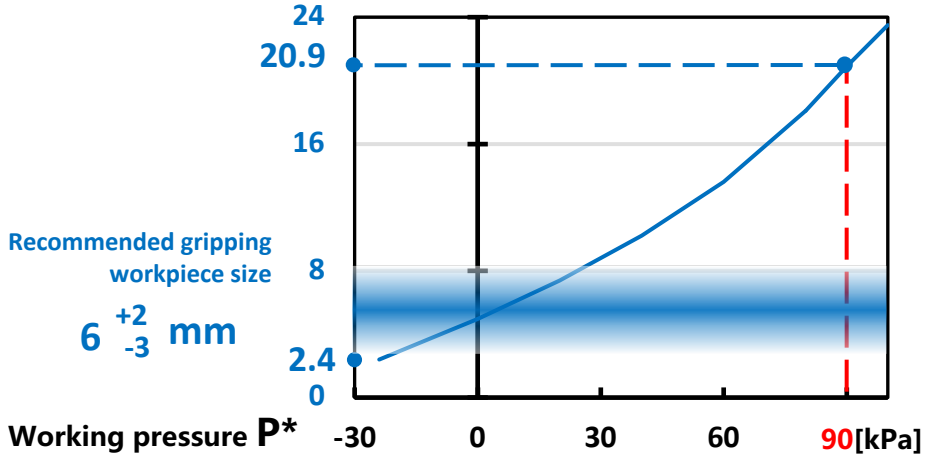








Gripping fingertip distance **G** [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	5g	Lifetime	1.5 million times*	Safe Pressure	+90kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.05N	Internal gripping force	×	BMC Weight	11g	BML Weight	20g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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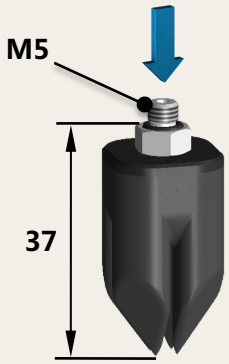
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Installation

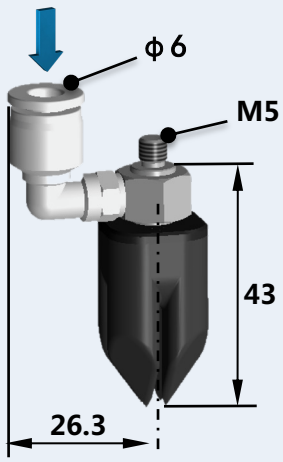
Straight Fitting
Normal Materia
BMC-4B18[P]/S

Straight Fitting
Dust-free Normal Material
BMC-4B18[PAS]/S



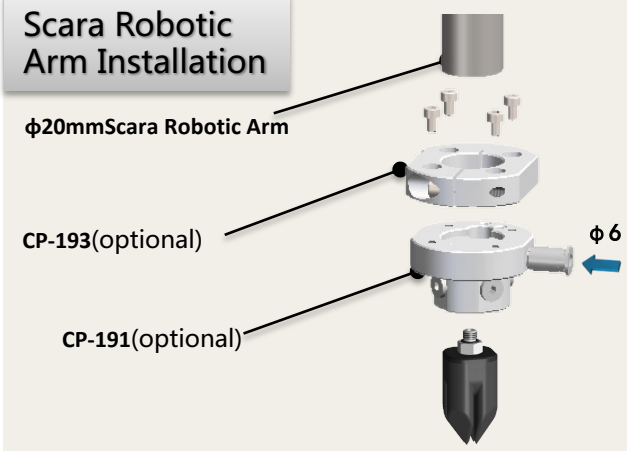
Side Fitting
Normal Material
BML-4B18[P]/S

Side Fitting
Dust-free Normal Material
BML-4B18[PAS]/S

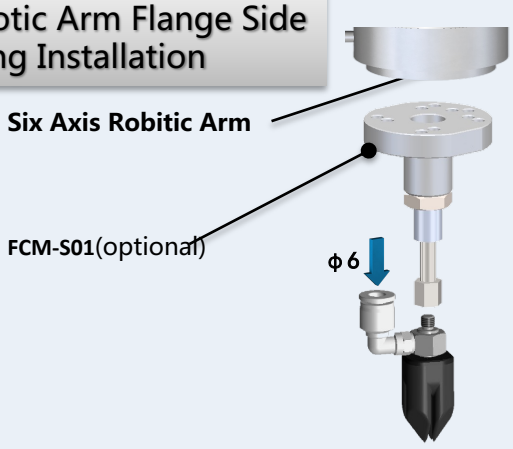


BM

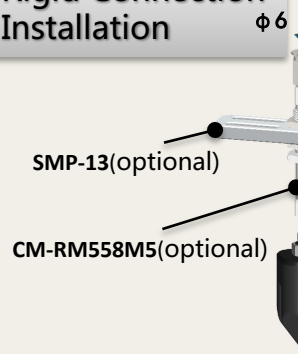
Scara Robotic Arm Installation



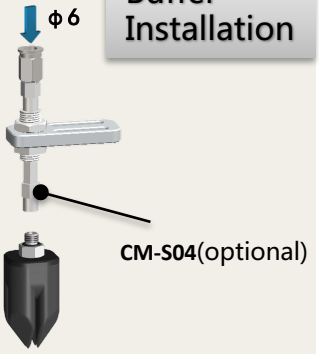
Robotic Arm Flange Side Fitting Installation



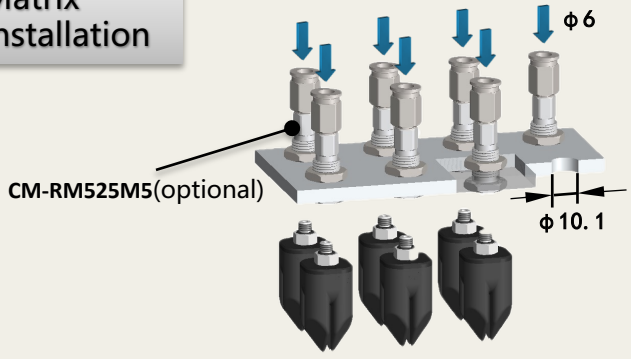
Rigid Connection Installation



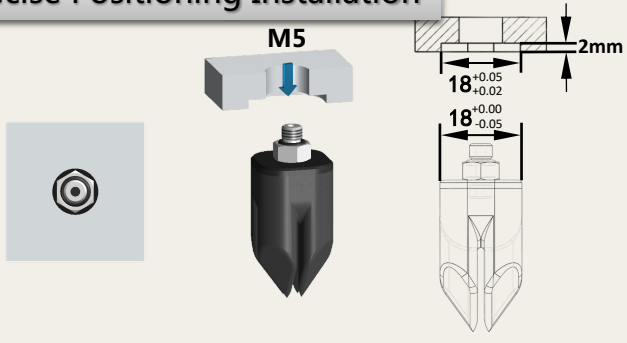
Buffer Installation



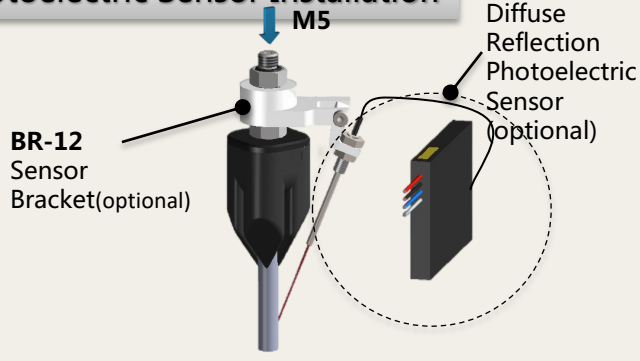
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

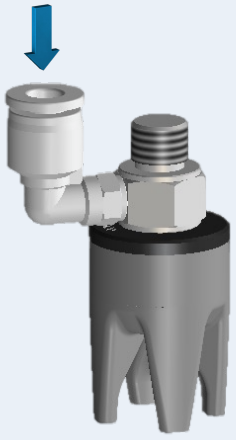
Straight Fitting
Normal Materia
BMC-4A24[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4A24[HAS]/S



Side Fitting
Normal Material
BML-4A24[H]/S

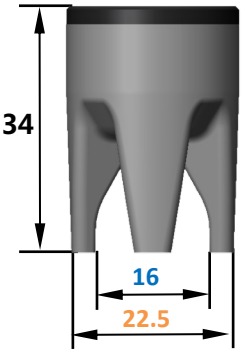
Side Fitting
Dust-free Normal Material
BML-4A24[HAS]/S



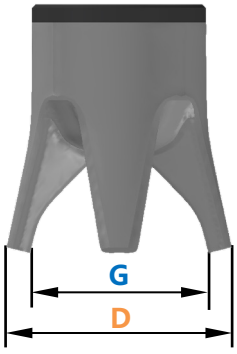
BM



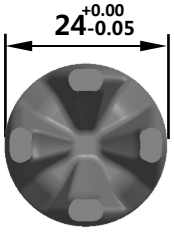
Vacuum

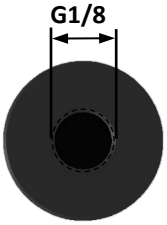


Atmosphere

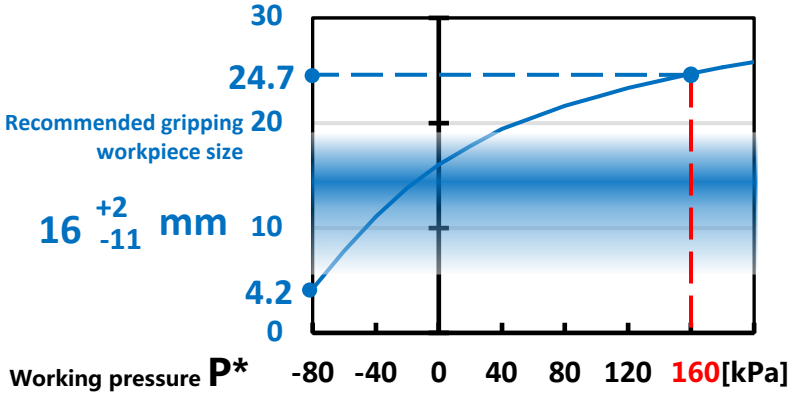


Pressure

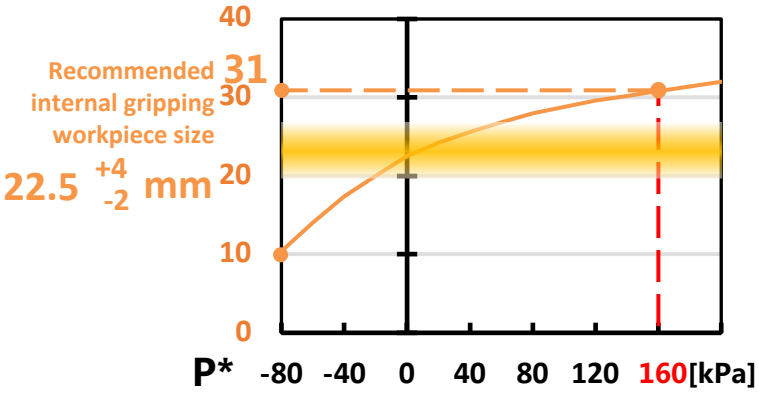




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

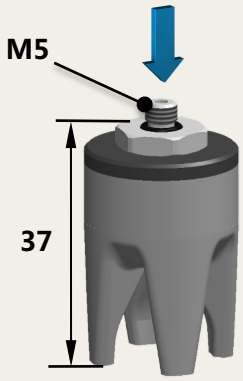
Repetitive Precision	±0.05mm	Recommend -ed Load	60g	Lifetime	1.5 million times*	Safe Pressure	+160kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.6N	Internal gripping force	0-1N	BMC Weight	19g	BML Weight	34g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

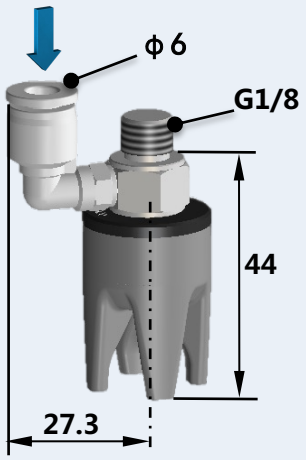
Straight Fitting
Normal Materia
BMC-4A24[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4A24[HAS]/S

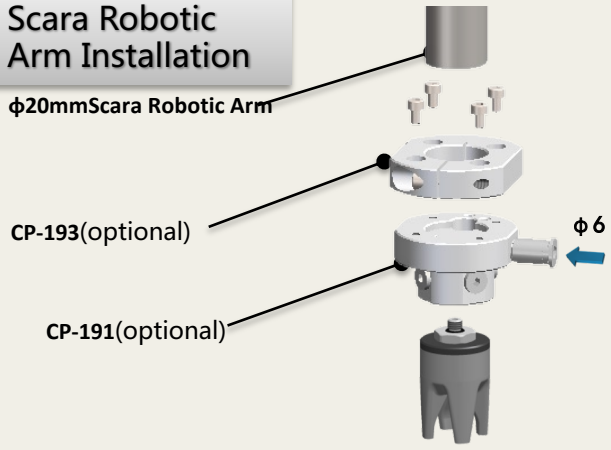


Side Fitting
Normal Material
BML-4A24[H]/S

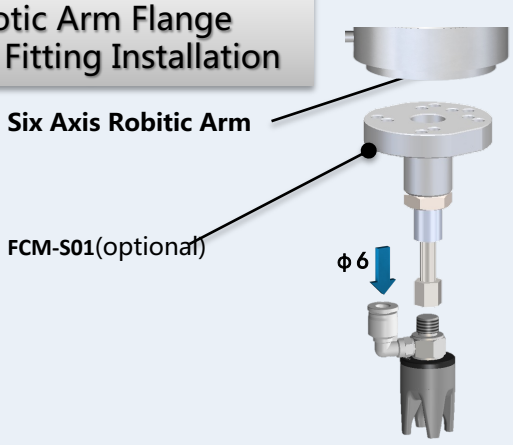
Side Fitting
Dust-free Normal Material
BML-4A24[HAS]/S



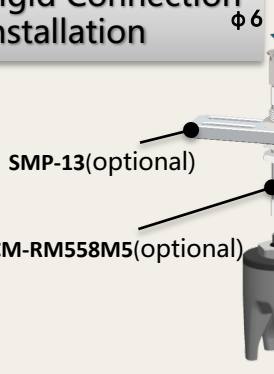
Scara Robotic Arm Installation



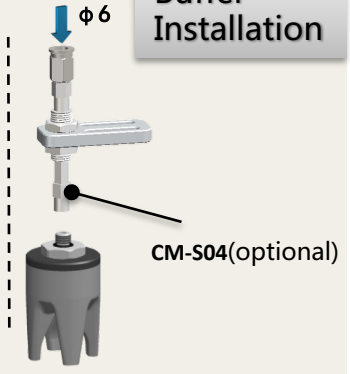
Robotic Arm Flange Side Fitting Installation



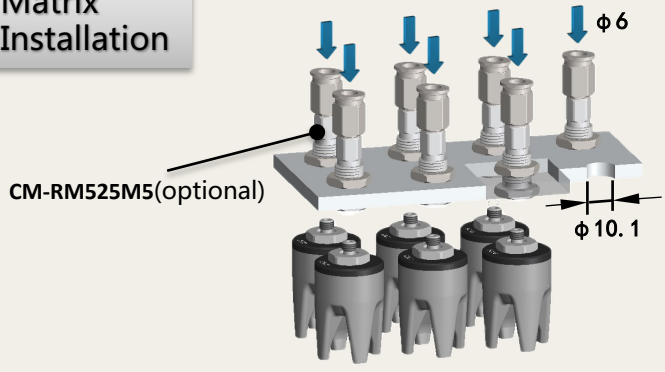
Rigid Connection Installation



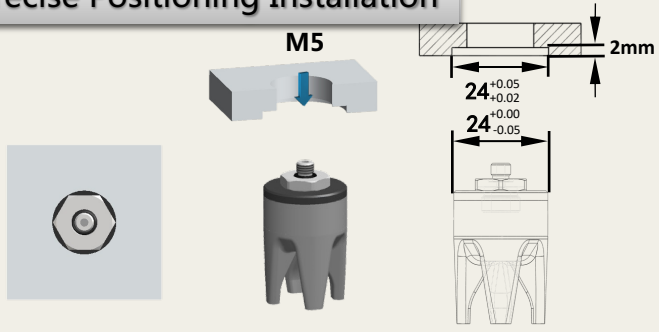
Buffer Installation



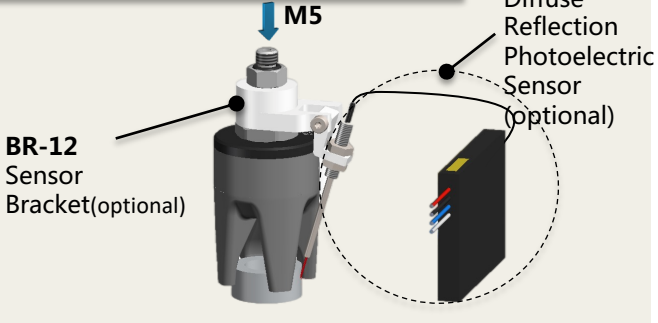
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



BM

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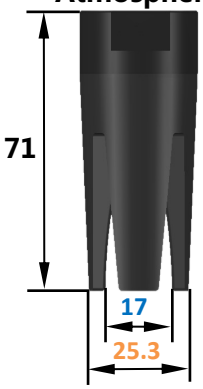
BM

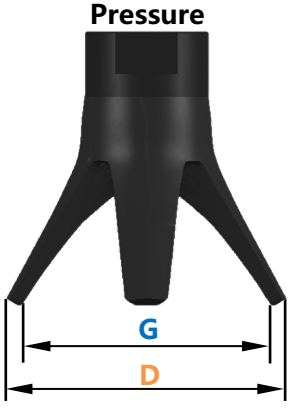
Product features

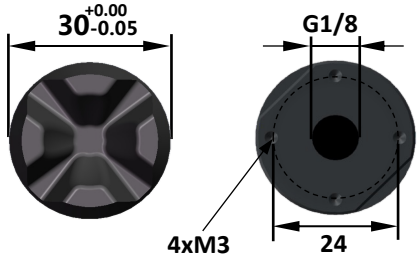
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

Straight Fitting **Normal Materia** **BMC-4A30[P]/M**		**Side Fitting** **Normal Material** **BML-4A30[P]/M**	
Straight Fitting **Dust-free Normal Material** **BMC-4A30[PAS]/M**		**Side Fitting** **Dust-free Normal Material** **BML-4A30[PAS]/M**	

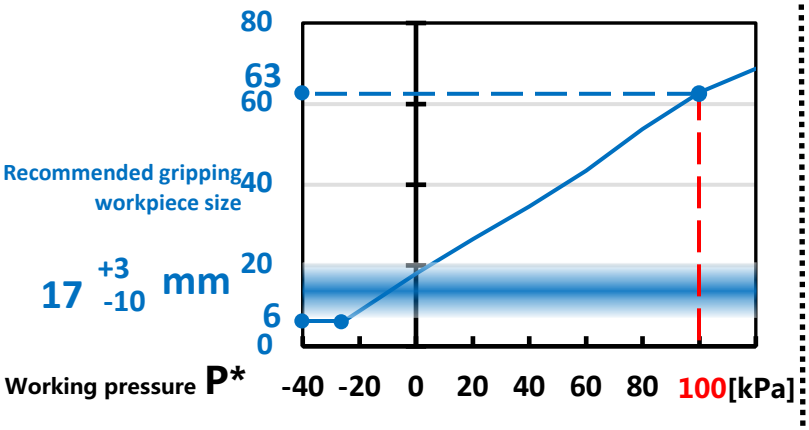




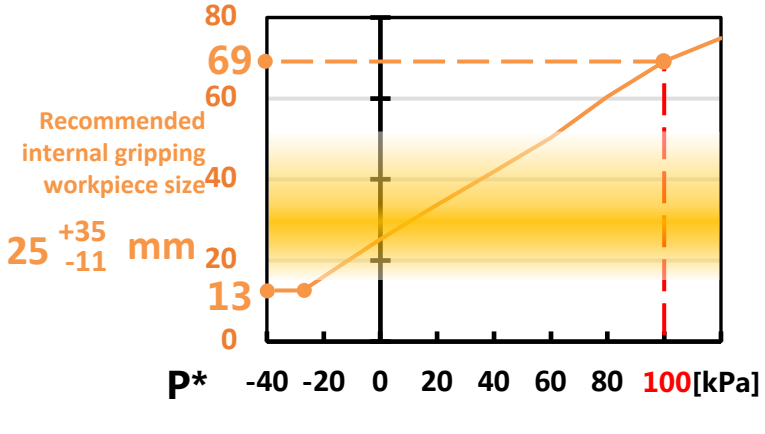




Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	40g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.4N	Internal gripping force	0-1N	BMC Weight	47g	BML Weight	62g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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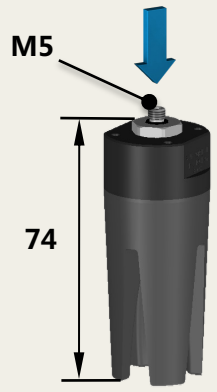
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Installation

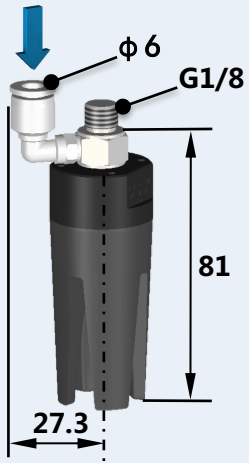
Straight Fitting
Normal Materia
BMC-4A30[P]/M

Straight Fitting
Dust-free Normal Material
BMC-4A30[PAS]/M



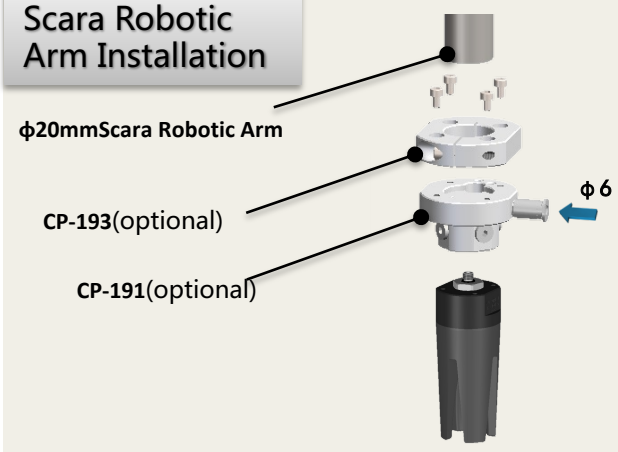
Side Fitting
Normal Material
BML-4A30[P]/M

Side Fitting
Dust-free Normal Material
BML-4A30[PAS]/M

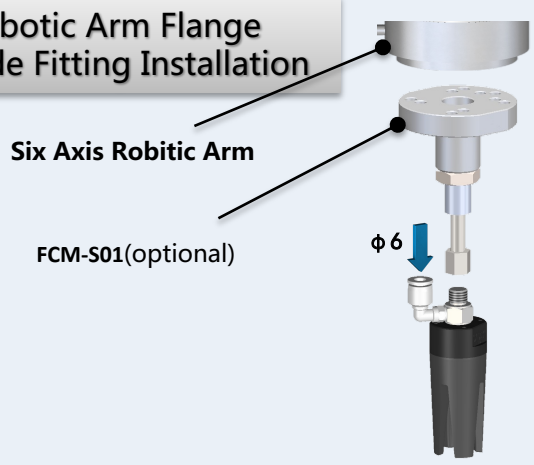


BM

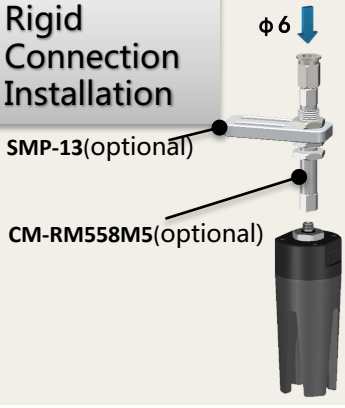
Scara Robotic Arm Installation



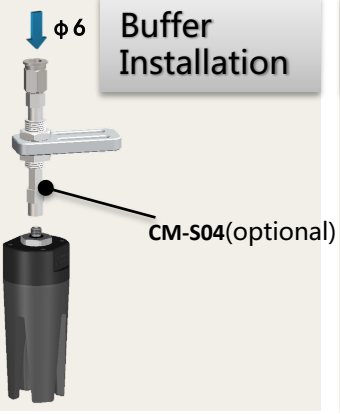
Robotic Arm Flange Side Fitting Installation



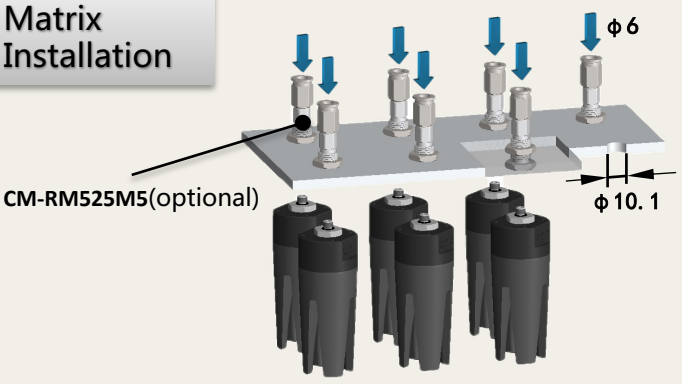
Rigid Connection Installation



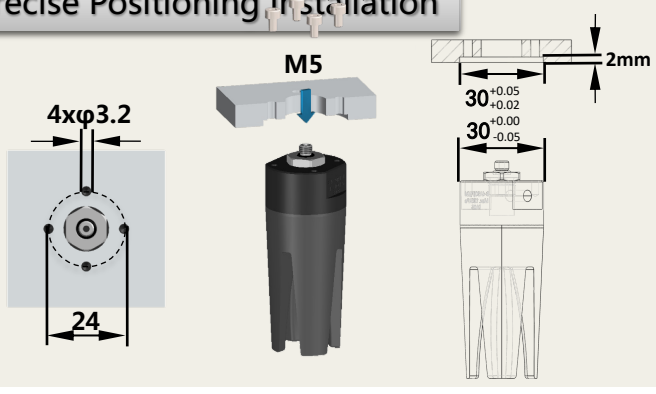
Buffer Installation



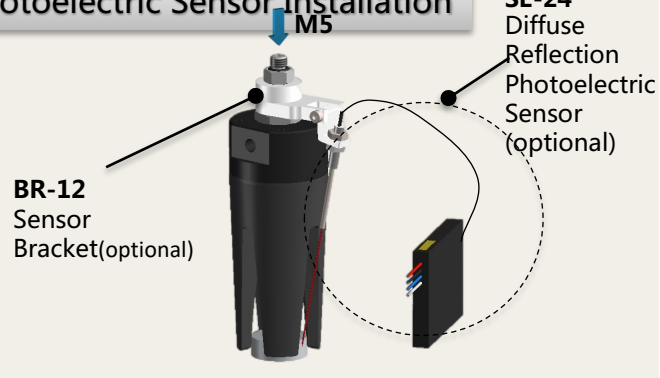
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

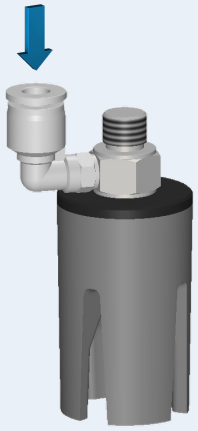
Straight Fitting
Normal Materia
BMC-4B30[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4B30[HAS]/S



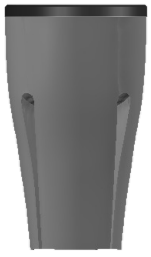
Side Fitting
Normal Material
BML-4B30[H]/S

Side Fitting
Dust-free Normal Material
BML-4B30[HAS]/S

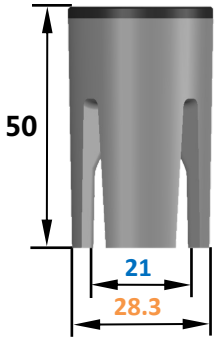


BM

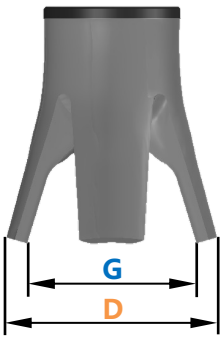
Vacuum

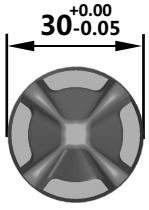


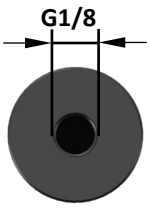
Atmosphere



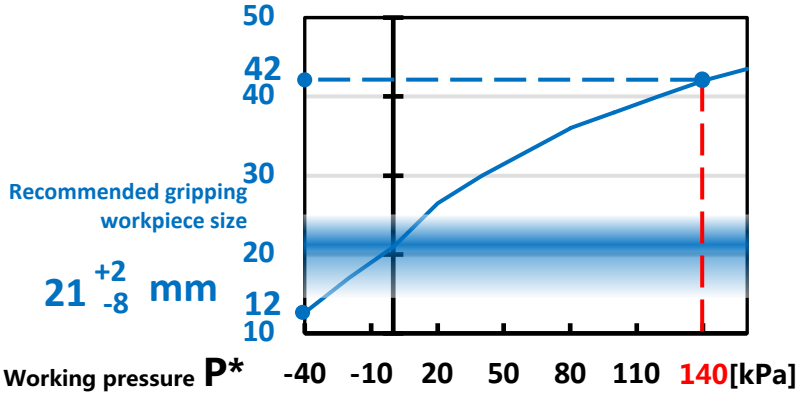
Pressure



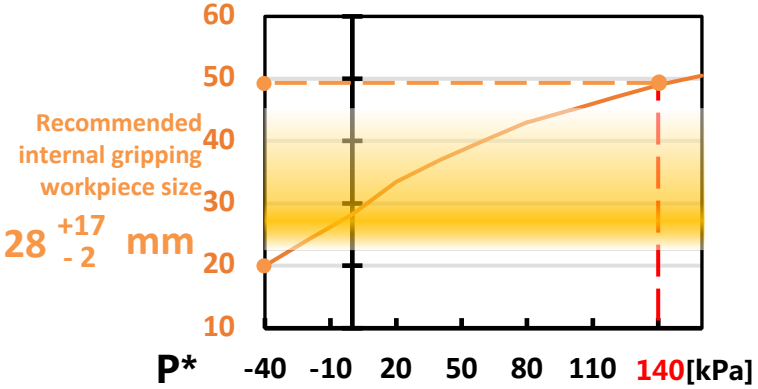




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	150g	Lifetime	1.5 million times*	Safe Pressure	+140kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-1.5N	Internal gripping force	0-5N	BMC Weight	33g	BML Weight	48g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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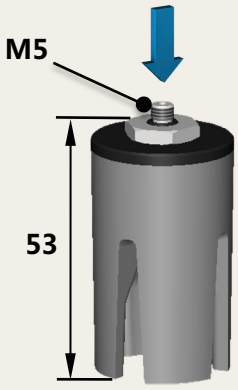
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Installation

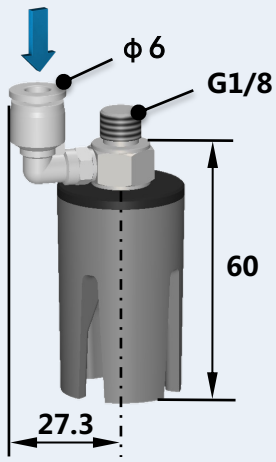
Straight Fitting
Normal Materia
BMC-4B30[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4B30[HAS]/S



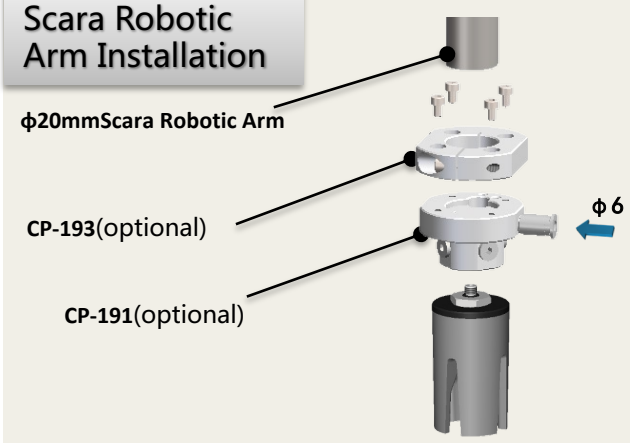
Side Fitting
Normal Material
BML-4B30[H]/S

Side Fitting
Dust-free Normal Material
BML-4B30[HAS]/S

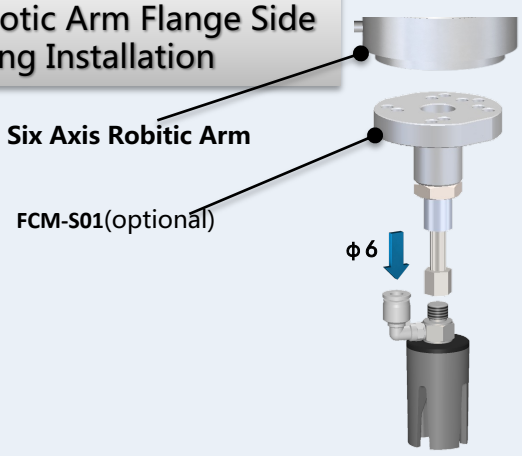


BM

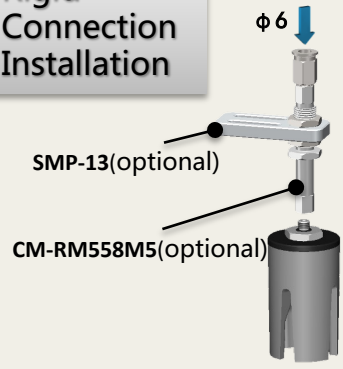
Scara Robotic Arm Installation



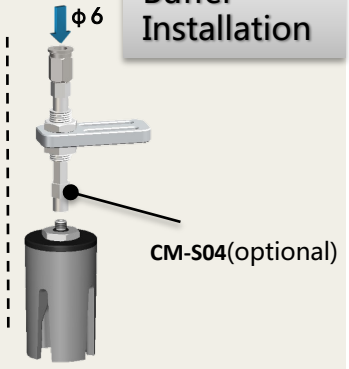
Robotic Arm Flange Side Fitting Installation



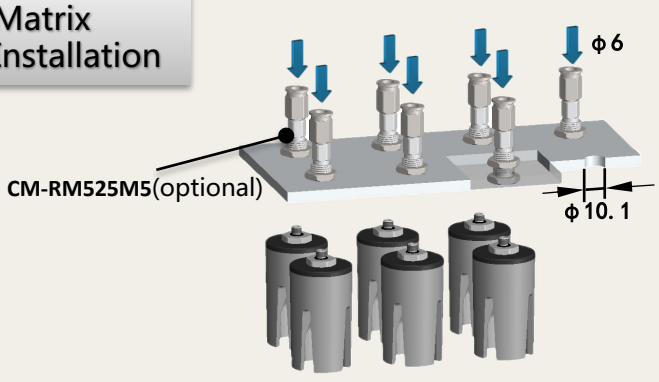
Rigid Connection Installation



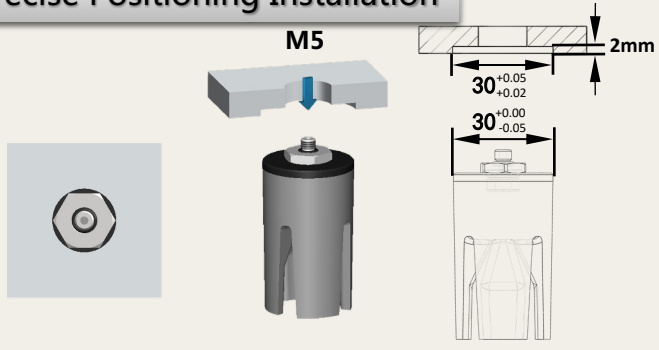
Buffer Installation



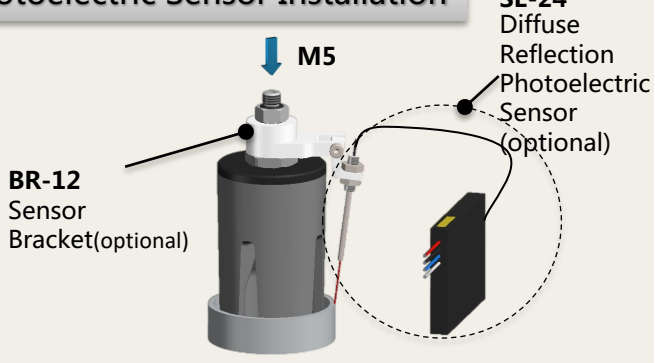
Matrix Installation



Precise Positioning Installation



Photoelectric Sensor Installation



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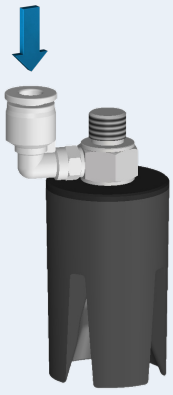
BM

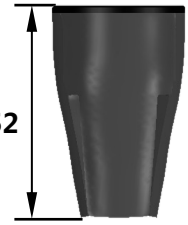
Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

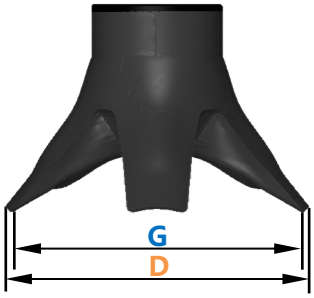
Straight Fitting Normal Materia BMC-4B32[P]/S	**Side Fitting Normal Material BML-4B32[P]/S**
Straight Fitting Dust-free Normal Material BMC-4B32[PAS]/S	**Side Fitting Dust-free Normal Material BML-4B32[PAS]/S**



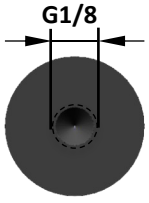




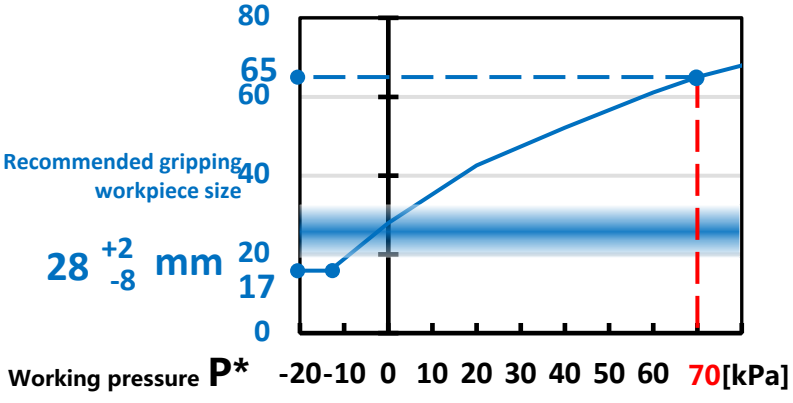




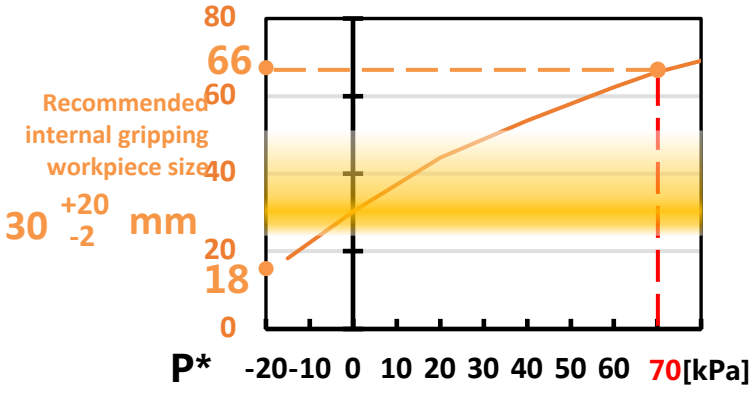




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	50g	Lifetime	1.5 million times*	Safe Pressure	+70kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.5N	Internal gripping force	0-1.5N	BMC Weight	46g	BML Weight	57g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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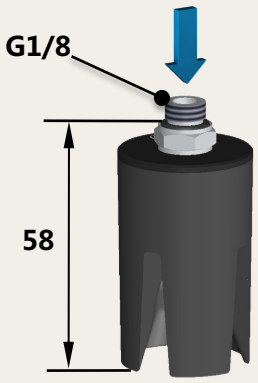
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Installation

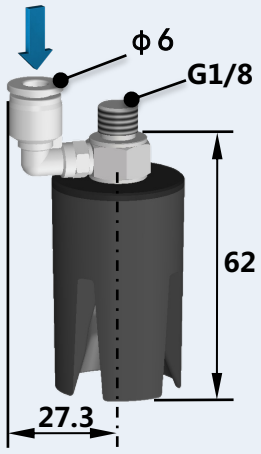
Straight Fitting
Normal Materia
BMC-4B32[P]/S

Straight Fitting
Dust-free Normal Material
BMC-4B32[PAS]/S



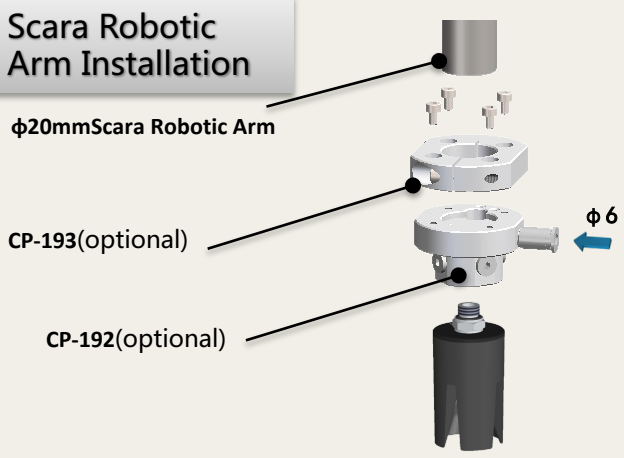
Side Fitting
Normal Material
BML-4B32[P]/S

Side Fitting
Dust-free Normal Material
BML-4B32[PAS]/S

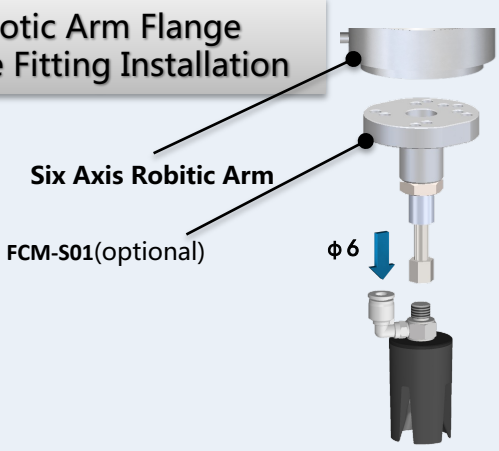


BM

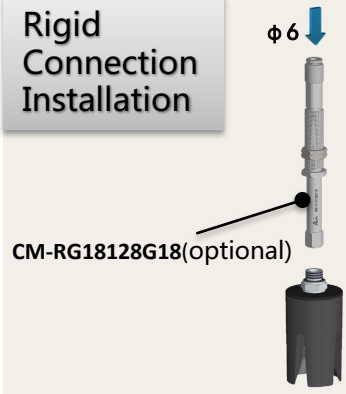
Scara Robotic Arm Installation



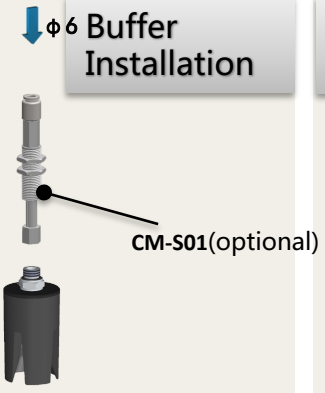
Robotic Arm Flange Side Fitting Installation



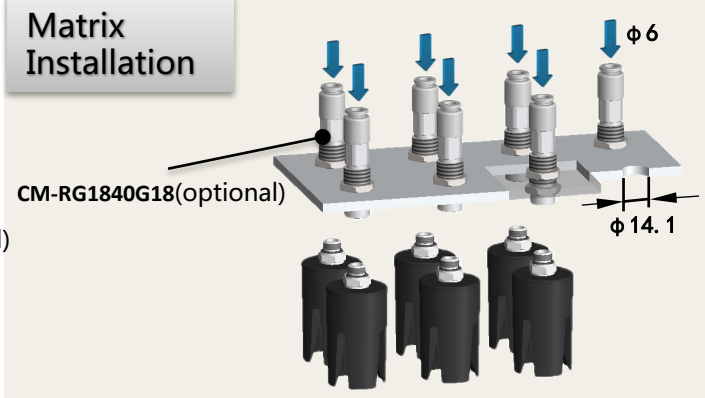
Rigid Connection Installation



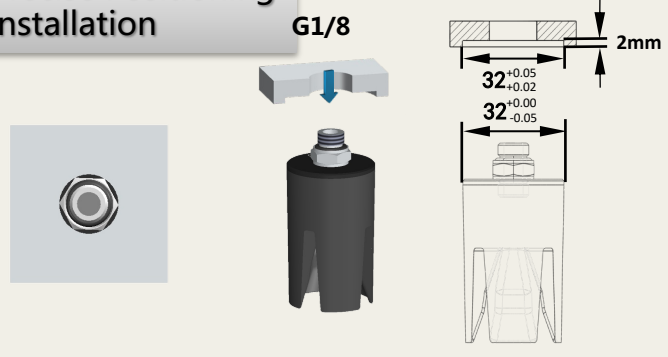
Buffer Installation



Matrix Installation



Precise Positioning Installation



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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

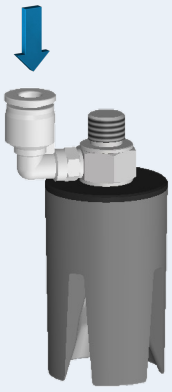
Straight Fitting
Normal Materia
BMC-4B32[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4B32[HAS]/S

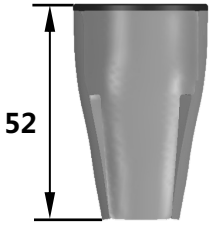


Side Fitting
Normal Material
BML-4B32[H]/S

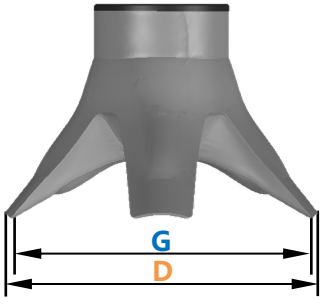
Side Fitting
Dust-free Normal Material
BML-4B32[HAS]/S

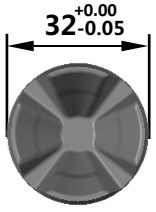


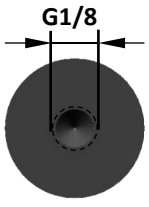
BM



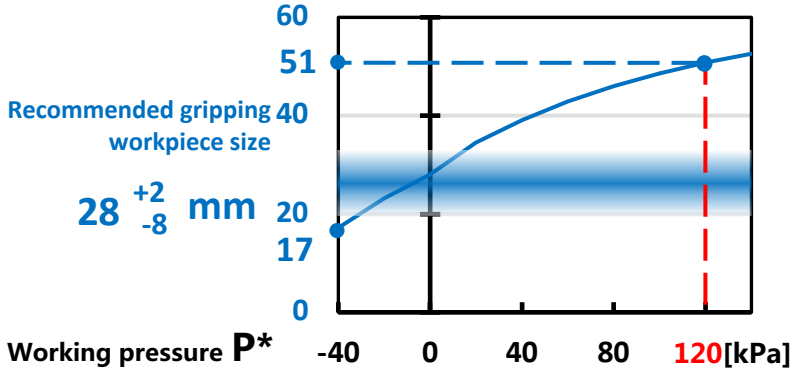




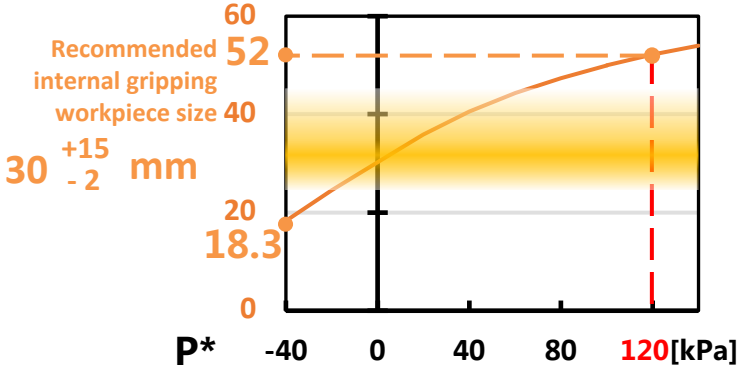




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	50g	Lifetime	1.5 million times*	Safe Pressure	+120kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.5N	Internal gripping force	0-2N	BMC Weight	51g	BML Weight	62g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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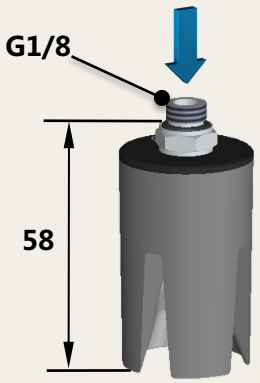
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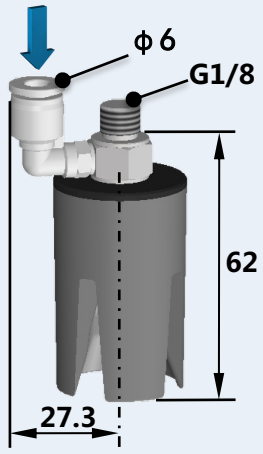
Straight Fitting
Normal Materia
BMC-4B32[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4B32[HAS]/S



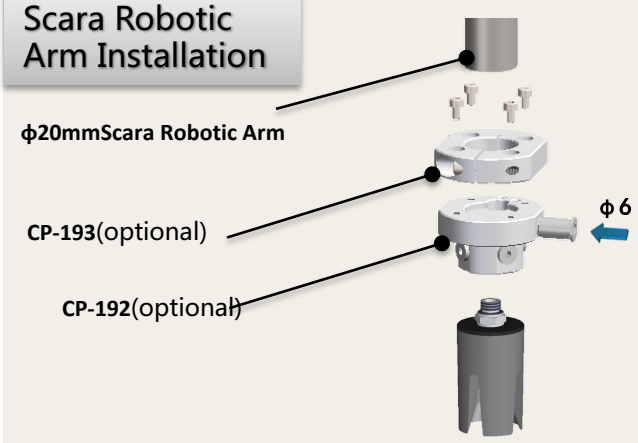
Side Fitting
Normal Material
BML-4B32[H]/S

Side Fitting
Dust-free Normal Material
BML-4B32[HAS]/S

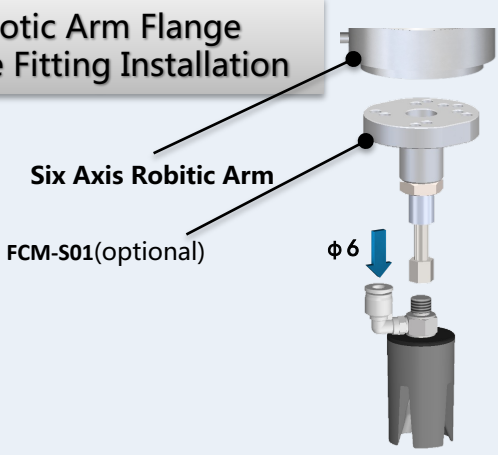


BM

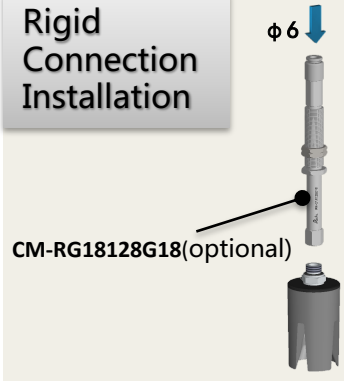
Scara Robotic Arm Installation



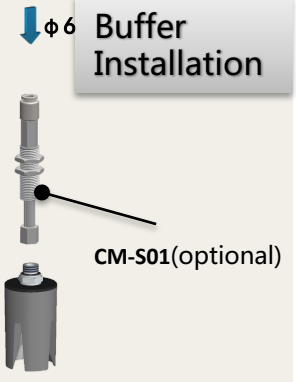
Robotic Arm Flange Side Fitting Installation



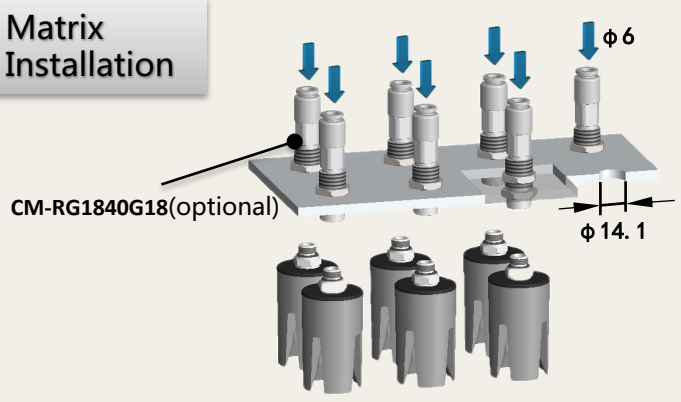
Rigid Connection Installation



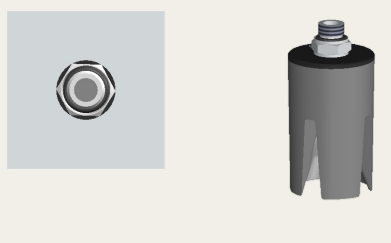
Buffer Installation

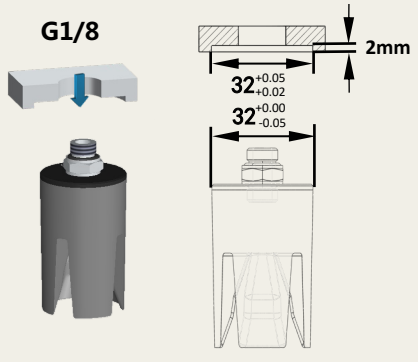


Matrix Installation



Precise Positioning Installation





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Product features

- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

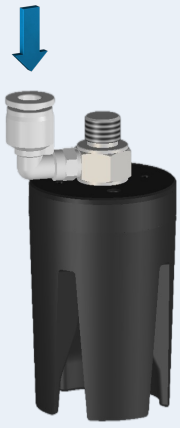
Straight Fitting
Normal Materia
BMC-4B40[P]/S

Straight Fitting
Dust-free Normal Material
BMC-4B40[PAS]/S

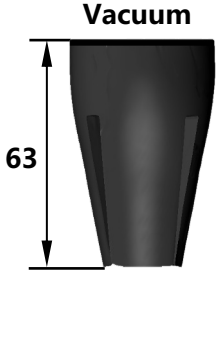


Side Fitting
Normal Material
BML-4B40[P]/S

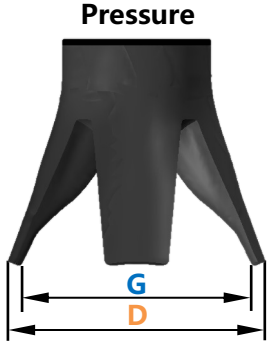
Side Fitting
Dust-free Normal Material
BML-4B40[PAS]/S

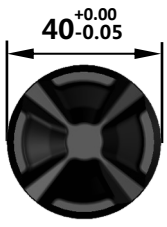


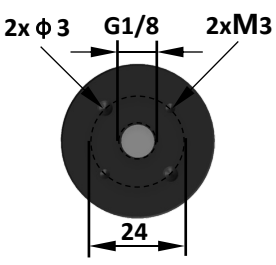
BM



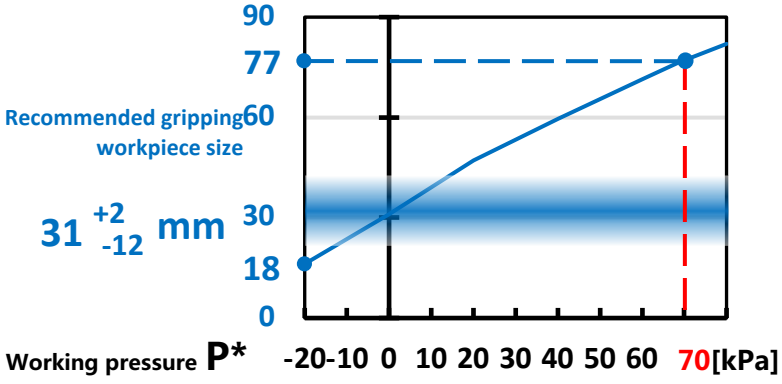




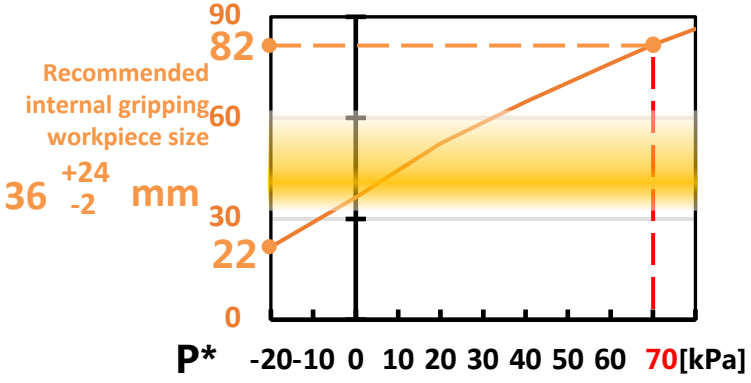




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	300g	Lifetime	1.5 million times*	Safe Pressure	+70kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.8N	Internal gripping force	0-3N	BMC Weight	60g	BML Weight	70g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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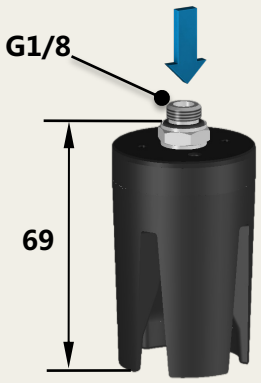
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Installation

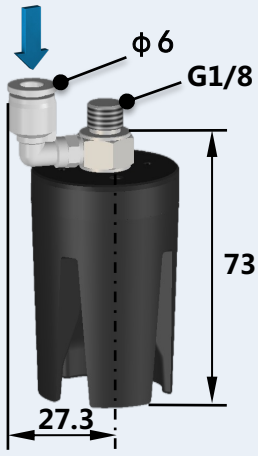
Straight Fitting
Normal Materia
BMC-4B40[P]/S

Straight Fitting
Dust-free Normal Material
BMC-4B40[PAS]/S



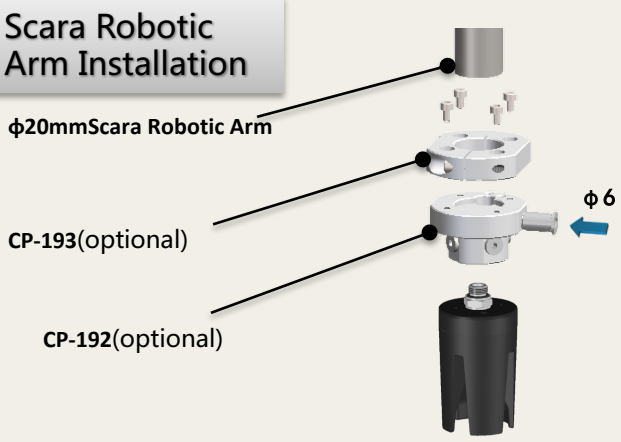
Side Fitting
Normal Material
BML-4B40[P]/S

Side Fitting
Dust-free Normal Material
BML-4B40[PAS]/S

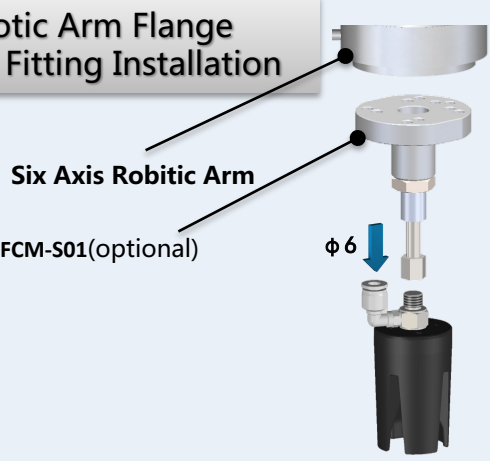


BM

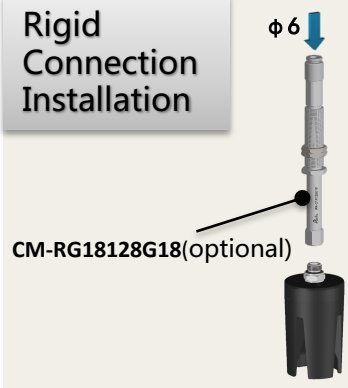
Scara Robotic Arm Installation



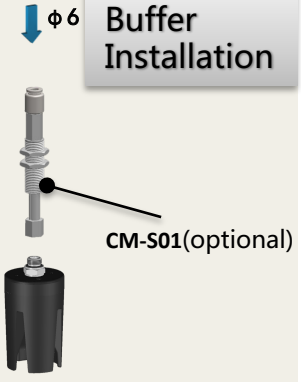
Robotic Arm Flange Side Fitting Installation



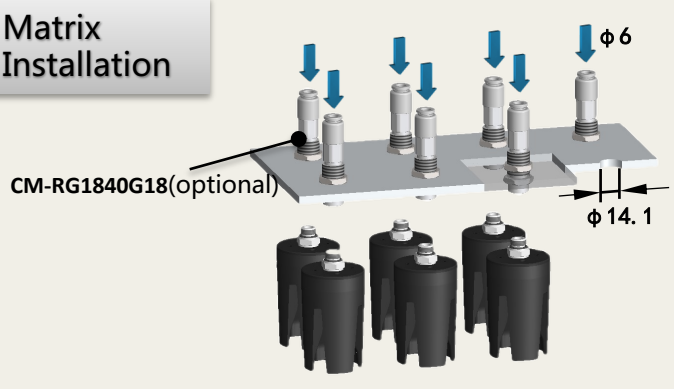
Rigid Connection Installation



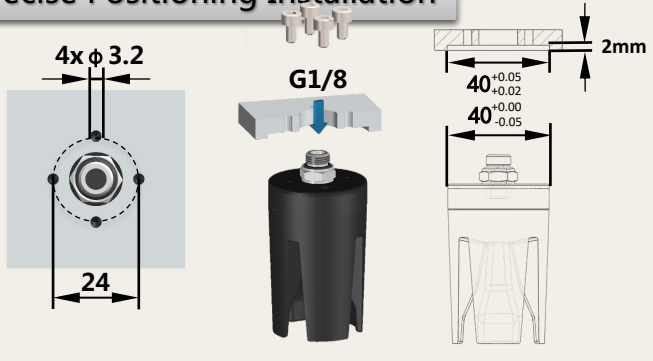
Buffer Installation



Matrix Installation



Precise Positioning Installation



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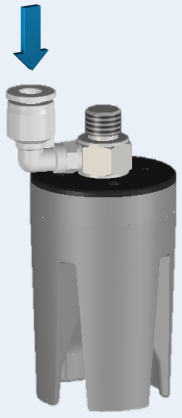
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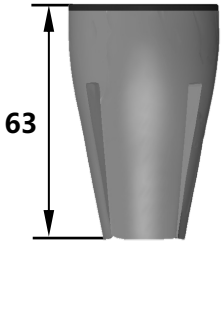
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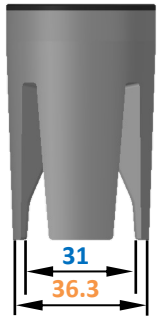
Product features

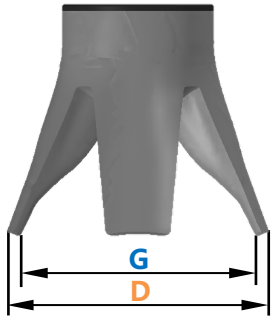
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

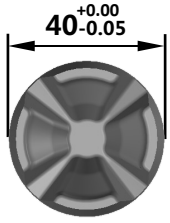
BM

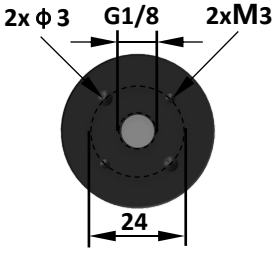
Straight Fitting Normal Materia BMC-4B40[H]/S		Side Fitting Normal Material BML-4B40[H]/S	
Straight Fitting Dust-free Normal Material BMC-4B40[HAS]/S		Side Fitting Dust-free Normal Material BML-4B40[HAS]/S	



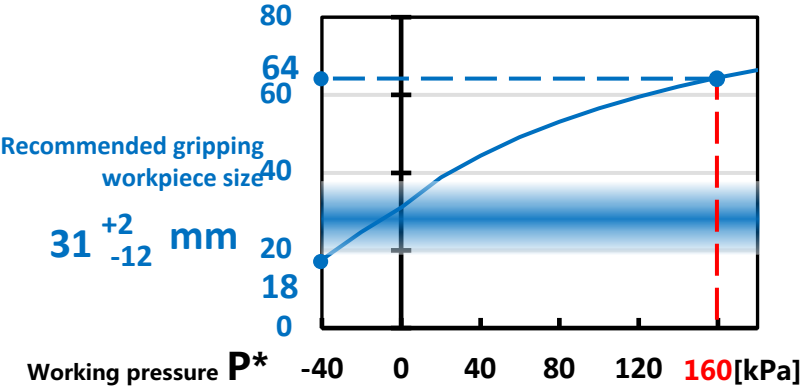




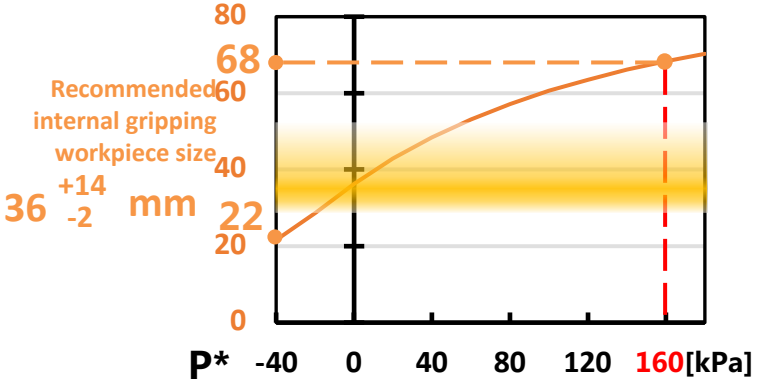




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	300g	Lifetime	1.5 million times*	Safe Pressure	+160kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-0.8N	Internal gripping force	0-3N	BMC Weight	65g	BML Weight	75g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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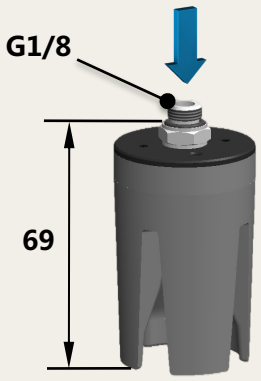
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Installation

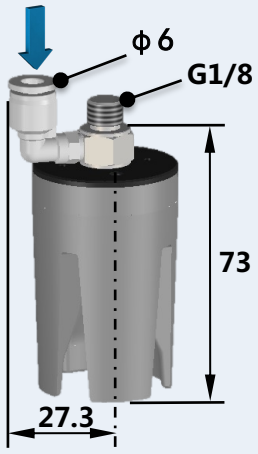
Straight Fitting
Normal Materia
BMC-4B40[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4B40[HAS]/S



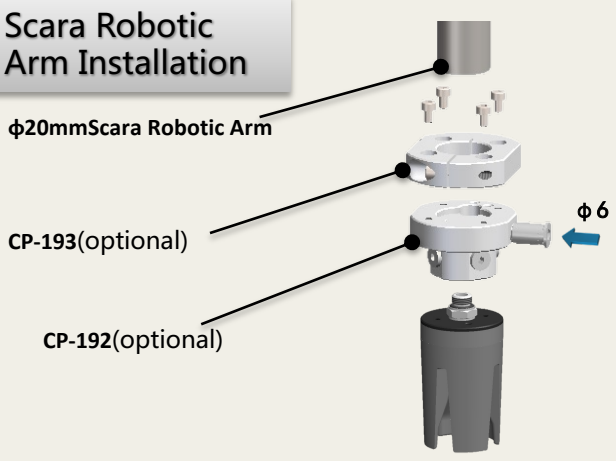
Side Fitting
Normal Material
BML-4B40[H]/S

Side Fitting
Dust-free Normal Material
BML-4B40[HAS]/S

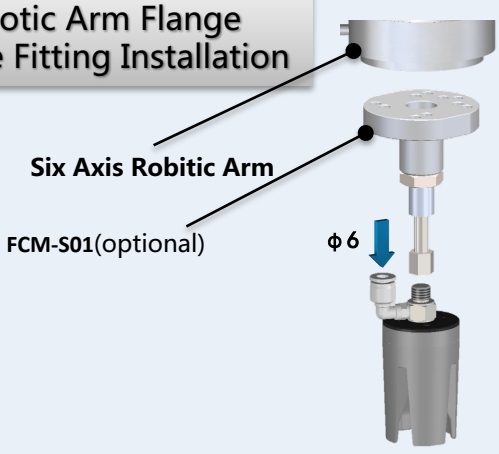


BM

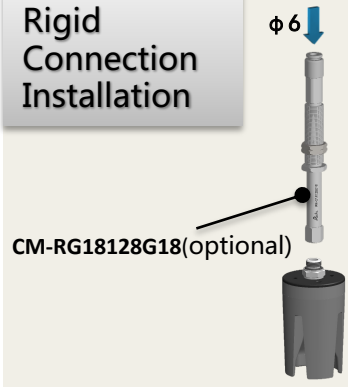
Scara Robotic Arm Installation



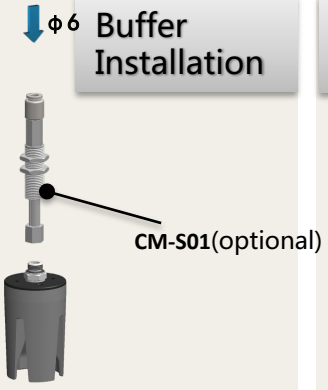
Robotic Arm Flange Side Fitting Installation



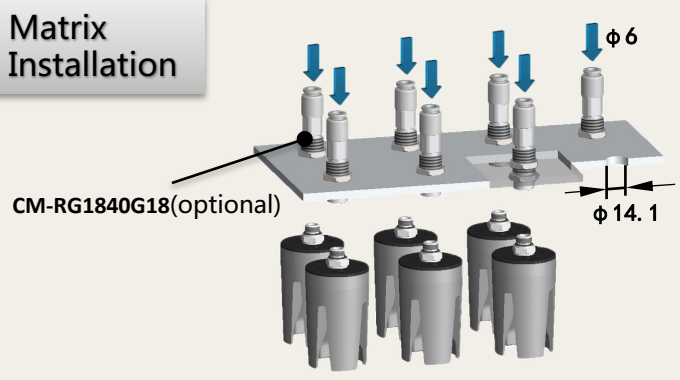
Rigid Connection Installation



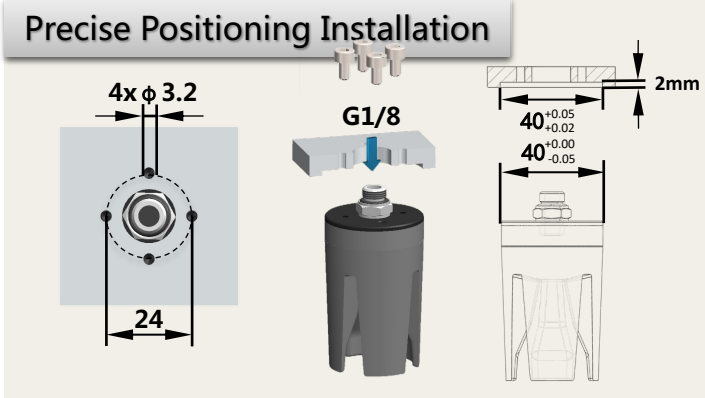
Buffer Installation



Matrix Installation



Precise Positioning Installation



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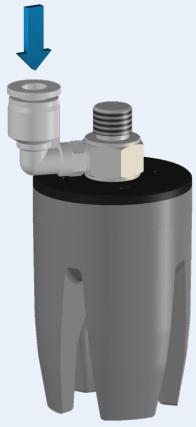
Product features

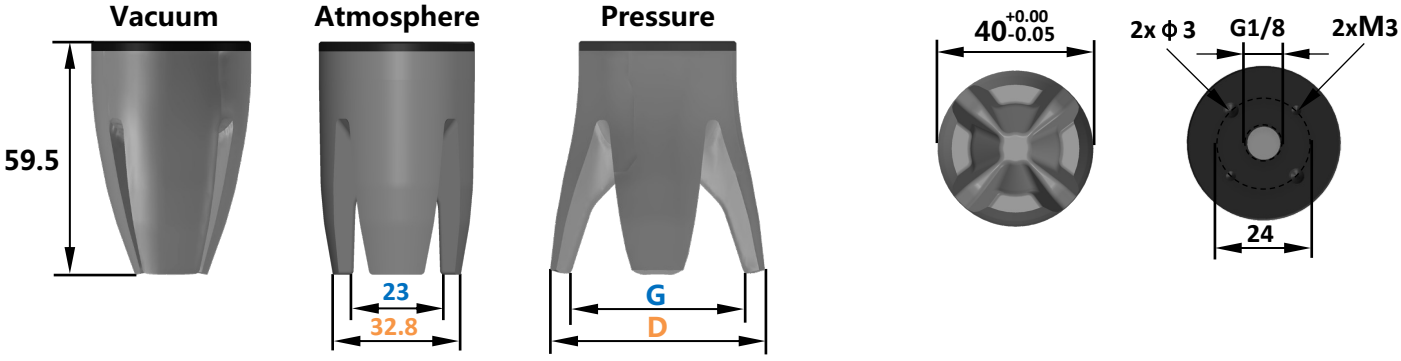
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal Material **[HAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[HAS]** is preferred.

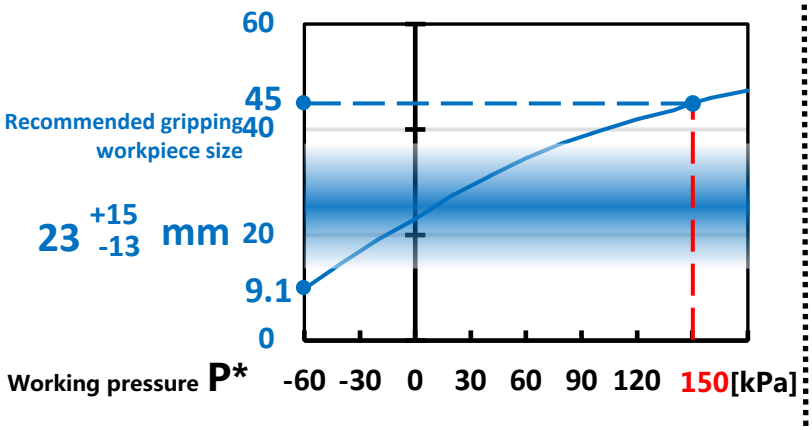
BM

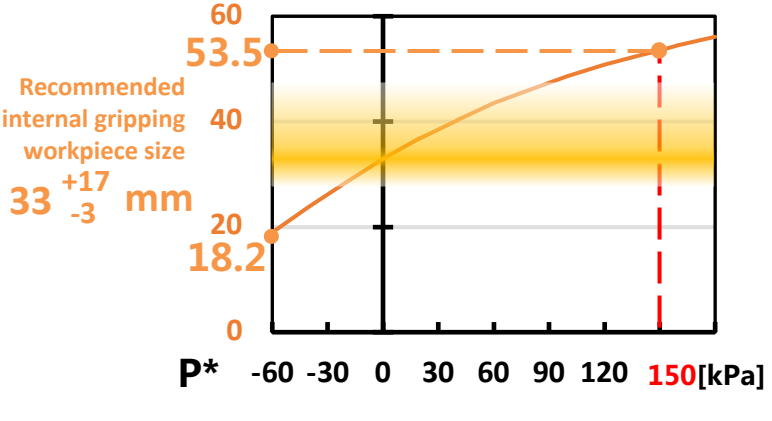
Straight Fitting Normal Materia BMC-4G40[H]/S	Side Fitting Normal Material BML-4G40[H]/S
Straight Fitting Dust-free Normal Material BMC-4G40[HAS]/S	Side Fitting Dust-free Normal Material BML-4G40[HAS]/S











Parameter

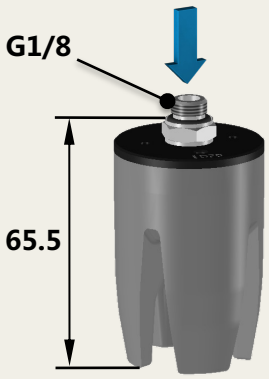
Repetitive Precision	±0.05mm	Recommend -ed Load	200g	Lifetime	1.5 million times*	Safe Pressure	+150kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-2N	Internal gripping force	0-3N	BMC Weight	71g	BML Weight	82g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

Installation

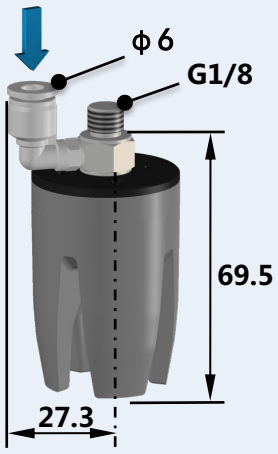
Straight Fitting
Normal Materia
BMC-4G40[H]/S

Straight Fitting
Dust-free Normal Material
BMC-4G40[HAS]/S



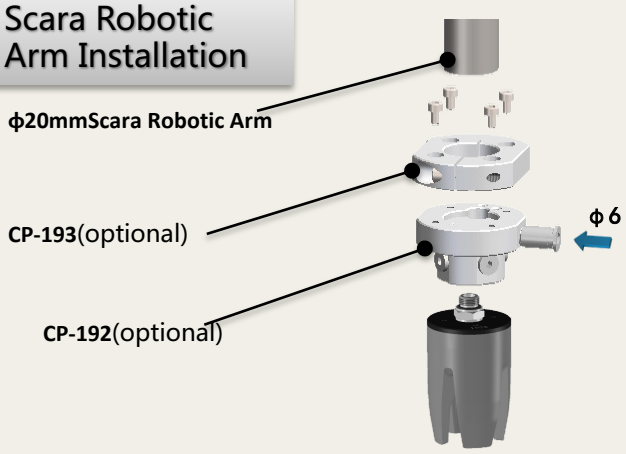
Side Fitting
Normal Material
BML-4G40[H]/S

Side Fitting
Dust-free Normal Material
BML-4G40[HAS]/S

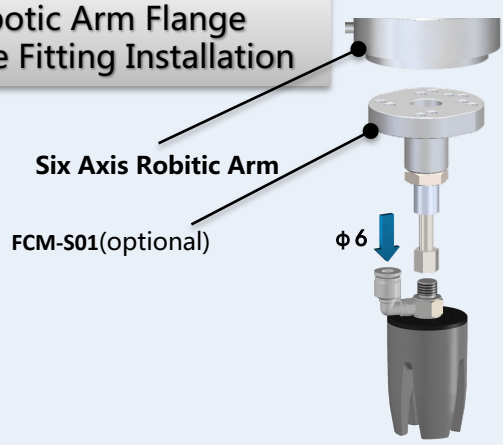


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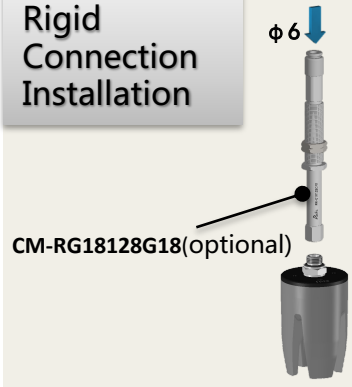
Scara Robotic Arm Installation



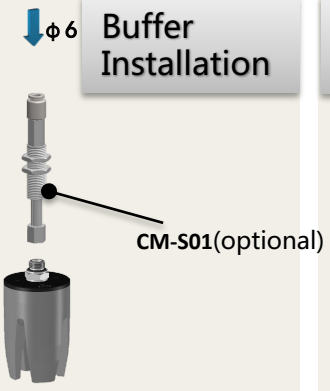
Robotic Arm Flange Side Fitting Installation



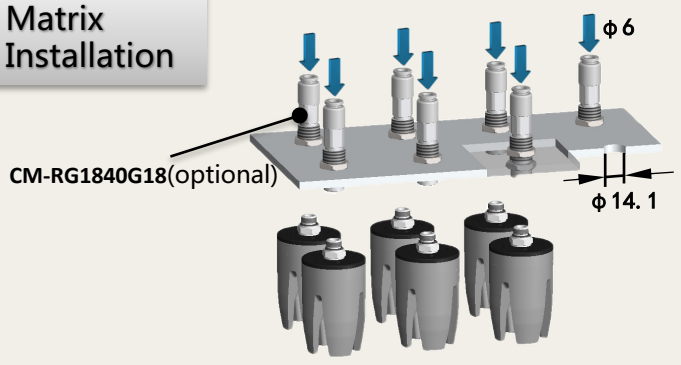
Rigid Connection Installation



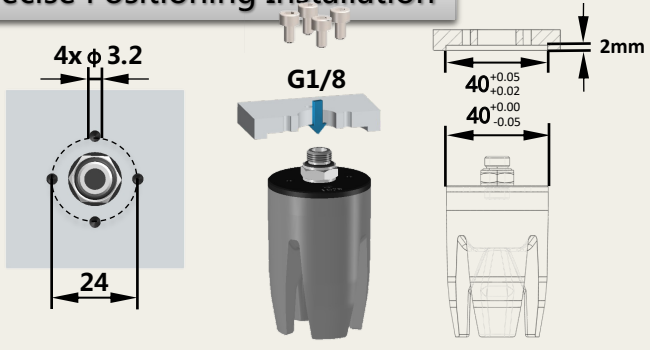
Buffer Installation



Matrix Installation



Precise Positioning Installation



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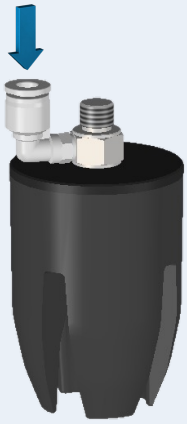
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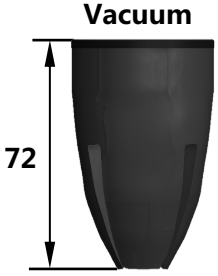
Product features

- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

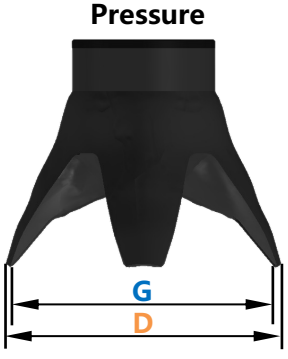
Straight Fitting Normal Materia BMC-4B50[P]/S	Side Fitting Normal Material BML-4B50[P]/S
Straight Fitting Dust-free Normal Material BMC-4B50[PAS]/S	Side Fitting Dust-free Normal Material BML-4B50[PAS]/S

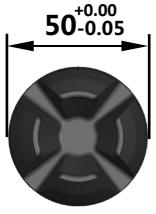


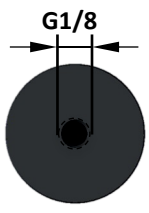




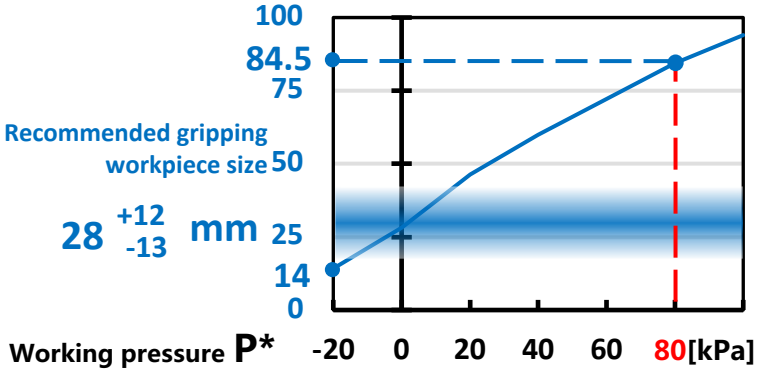




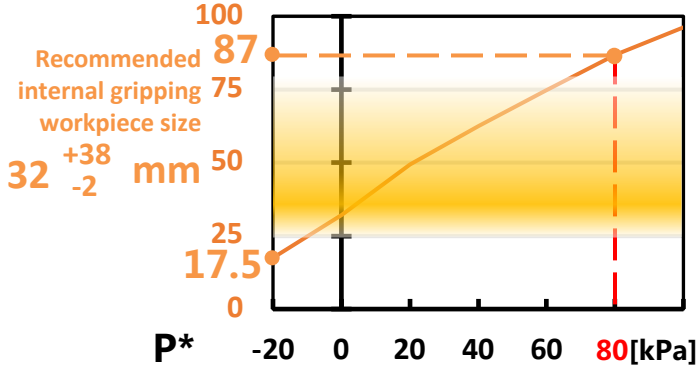




Gripping fingertip distance **G** [mm]



Internal gripping fingertip distance **D** [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	500g	Lifetime	1.5 million times*	Safe Pressure	+80kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-5N	Internal gripping force	0-3N	BMC Weight	91g	BML Weight	102g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

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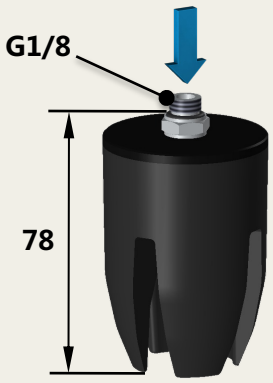
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Installation

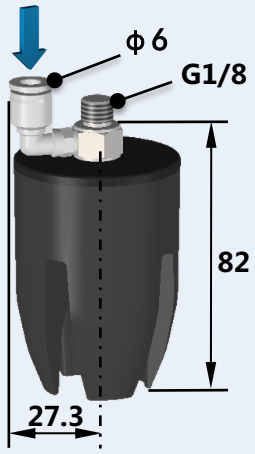
Straight Fitting
Normal Materia
BMC-4B50[P]/S

Straight Fitting
Dust-free Normal Material
BMC-4B50[PAS]/S



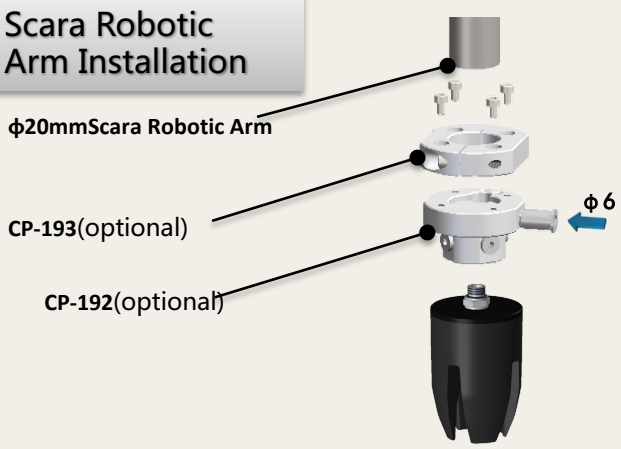
Side Fitting
Normal Material
BML-4B50[P]/S

Side Fitting
Dust-free Normal Material
BML-4B50[PAS]/S

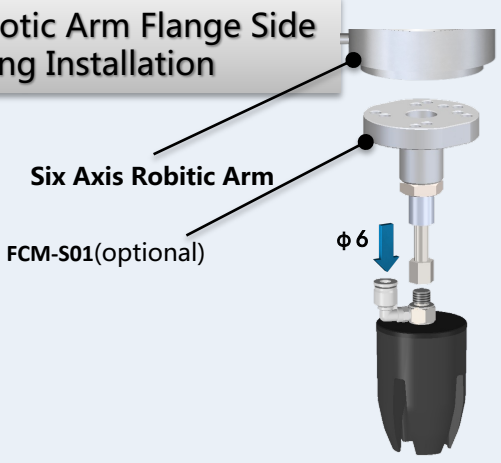


BM

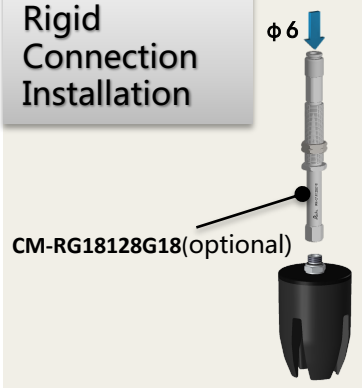
Scara Robotic Arm Installation



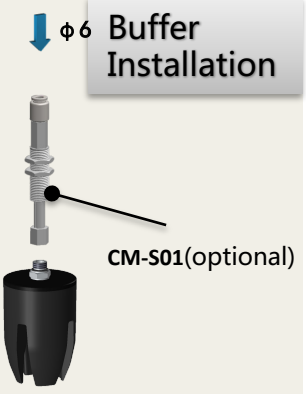
Robotic Arm Flange Side Fitting Installation



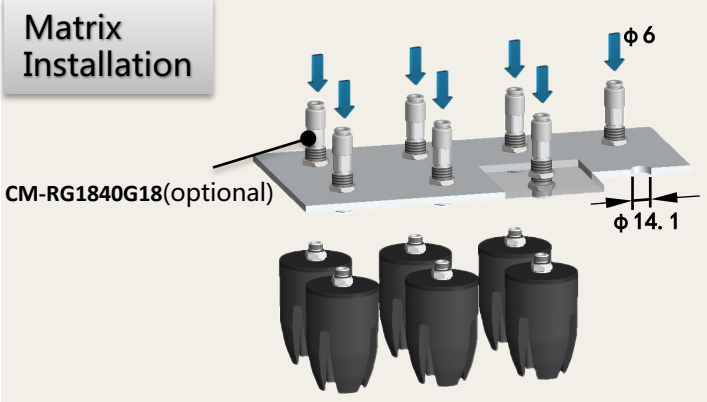
Rigid Connection Installation



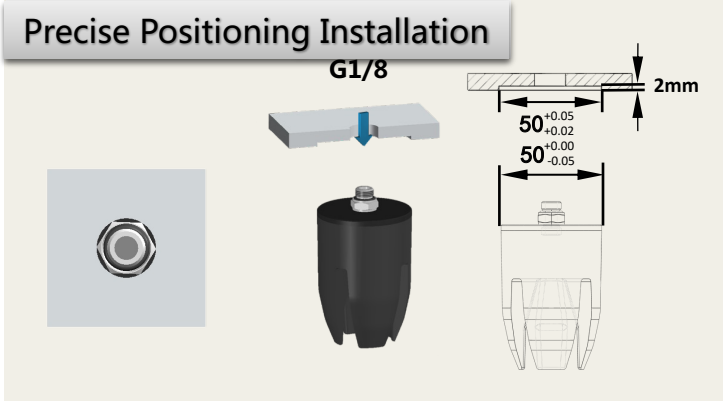
Buffer Installation



Matrix Installation



Precise Positioning Installation



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Product features

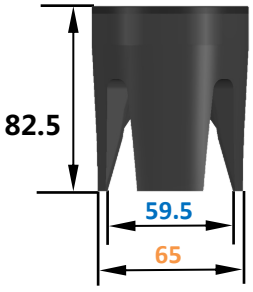
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light, or very soft, easy to adhere to adsorp on the soft beak, Dust-free Normal Material **[PAS]** is preferred.

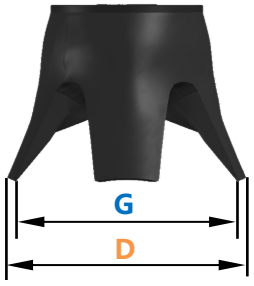
Straight Fitting Normal Materia BMC-4B70[P]/S	Side Fitting Normal Material BML-4B70[P]/S
Straight Fitting Dust-free Normal Material BMC-4B70[PAS]/S	Side Fitting Dust-free Normal Material BML-4B70[PAS]/S

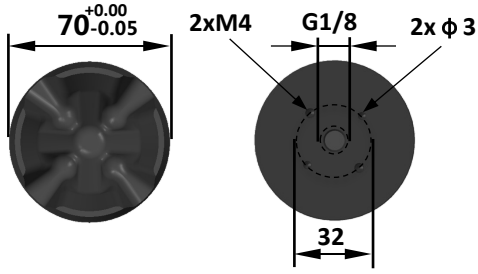




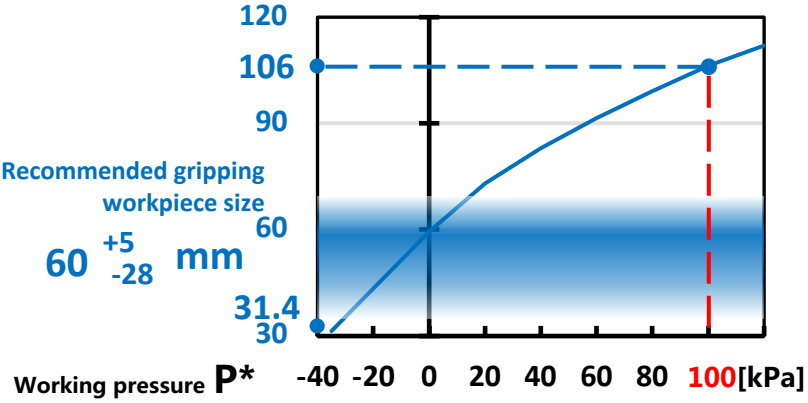




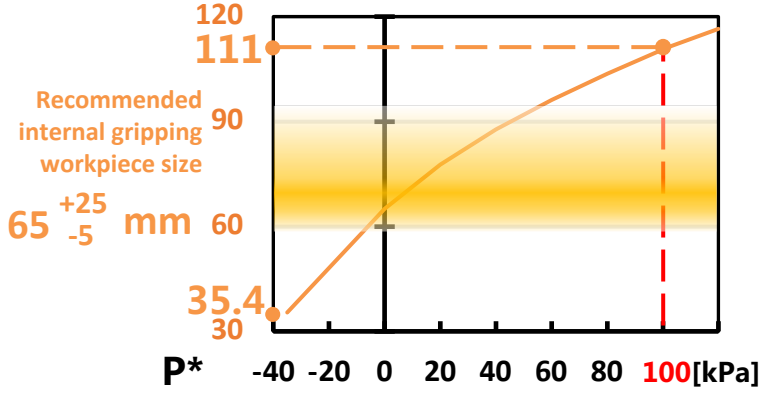




Gripping fingertip distance G [mm]



Internal gripping fingertip distance D [mm]



Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	1500g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180℃
Frequency	6times/sec	External gripping force	0-4N	Internal gripping force	0-8N	BMC Weight	196g	BML Weight	207g

* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.

https://rochu.partcommunity.com/3d-cad-models/

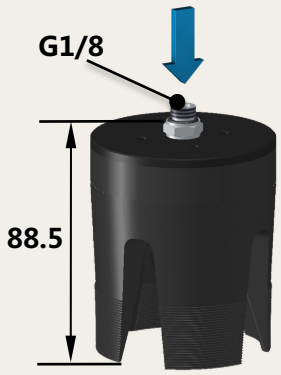
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Installation

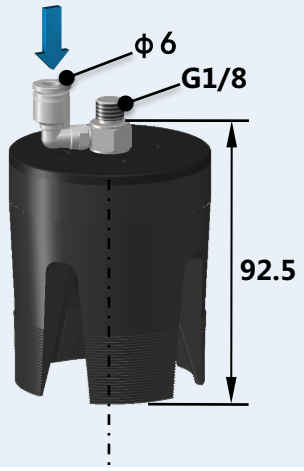
Straight Fitting
Normal Materia
BMC-4B70[P]/S

Straight Fitting
Dust-free Normal Material
BMC-4B70[PAS]/S



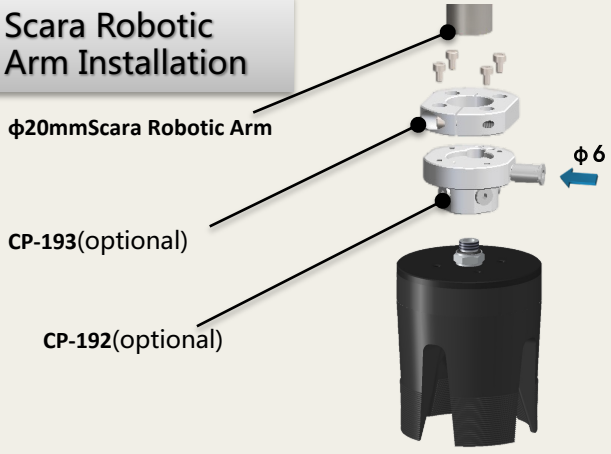
Side Fitting
Normal Material
BML-4B70[P]/S

Side Fitting
Dust-free Normal Material
BML-4B70[PAS]/S

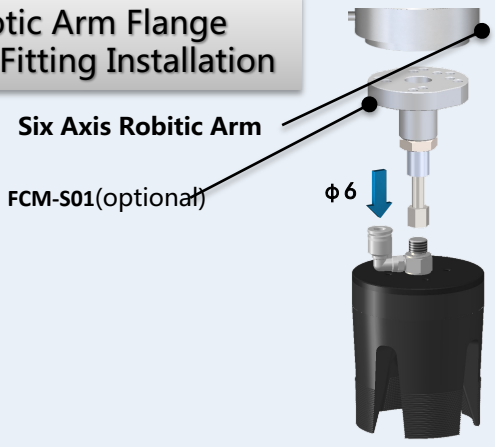


BM

Scara Robotic Arm Installation



Robotic Arm Flange Side Fitting Installation



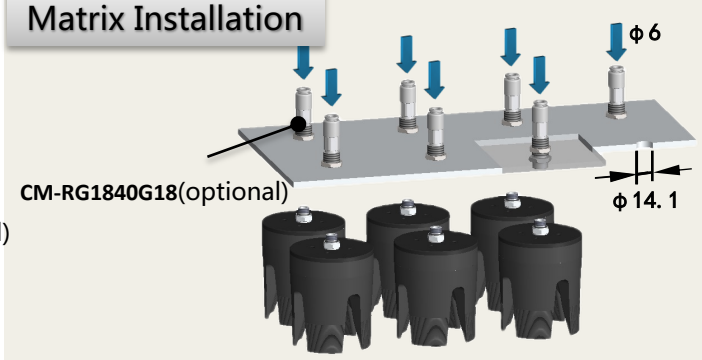
Rigid Connection Installation



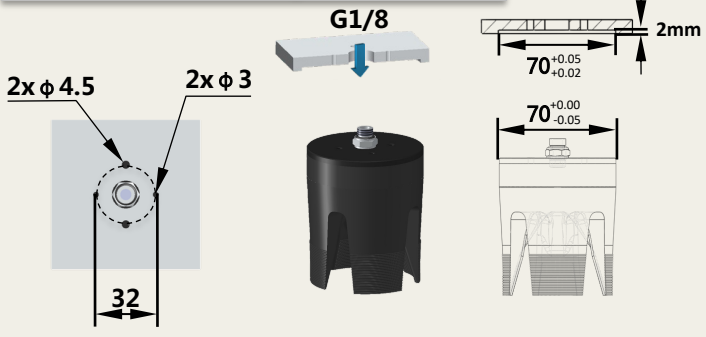
Buffer Installation



Matrix Installation



Precise Positioning Installation



3

FM / F
Finger Module / Finger



Finger Module A

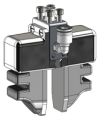
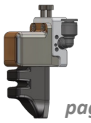
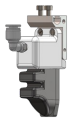
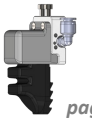
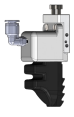
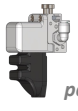
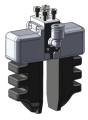
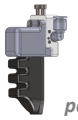
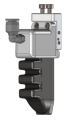
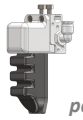
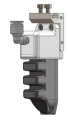
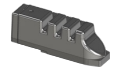
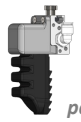
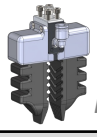
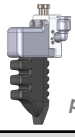
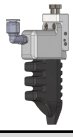
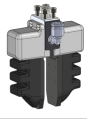
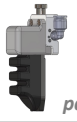


Finger Module B

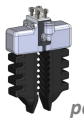
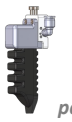
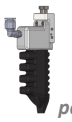
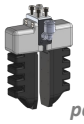
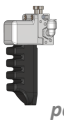
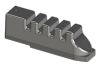
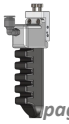
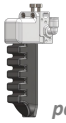
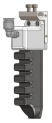
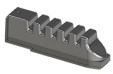
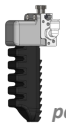
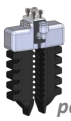
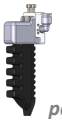
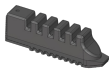
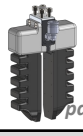
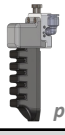
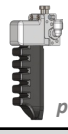
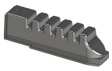
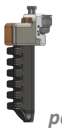
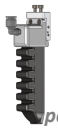


Finger Module C

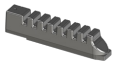


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FM-A3V1/LS1	**FM-A3V2/LS1**	**FM-A3V3/LS1**	**FM-A3V4/LS1**	**FM-A3V5/LS1**	**F-A3T/LS1**
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FM-A3V1/LS8	**FM-A3V2/LS8**	**FM-A3V3/LS8**	**FM-A3V4/LS8**	**FM-A3V5/LS8**	**F-A3T/LS8**
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FM-A3V1/LF1	**FM-A3V2/LF1**	**FM-A3V3/LF1**	**FM-A3V4/LF1**	**FM-A3V5/LF1**	**F-A3T/LF1**
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FM-A4V1/LS1	**FM-A4V2/LS1**	**FM-A4V3/LS1**	**FM-A4V4/LS1**	**FM-A4V5/LS1**	**F-A4T/LS1**
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FM-A4V1/FS3	**FM-A4V2/FS3**	**FM-A4V3/FS3**	**FM-A4V4/FS3**	**FM-A4V5/FS3**	**F-A4T/FS3**
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FM-A4V1/LF1	**FM-A4V2/LF1**	**FM-A4V3/LF1**	**FM-A4V4/LF1**	**FM-A4V5/LF1**	**F-A4T/LF1**
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FM-A5V1/LS1	**FM-A5V2/LS1**	**FM-A5V3/LS1**	**FM-A5V4/LS1**	**FM-A5V5/LS1**	**F-A5T/LS1**
page. 172	page. 173	page. 174	page. 175	page. 176	page. 177
FM-A5V1/LS8	**FM-A5V2/LS8**	**FM-A5V3/LS8**	**FM-A5V4/LS8**	**FM-A5V5/LS8**	**F-A5T/LS8**

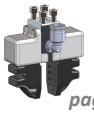
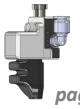
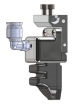
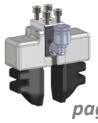
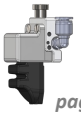
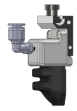
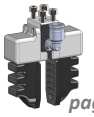
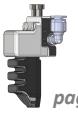
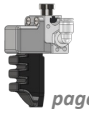
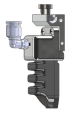
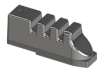
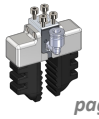
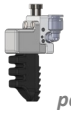
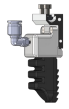
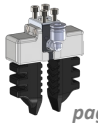
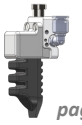
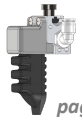
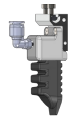
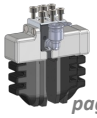
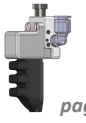
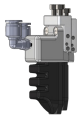
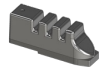
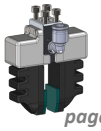
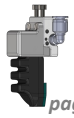
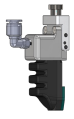


 page. 178	 page. 179	 page. 180	 page. 181	 page. 182	 page. 183
FM-A5V1/FS3	**FM-A5V2/FS3**	**FM-A5V3/FS3**	**FM-A5V4/FS3**	**FM-A5V5/FS3**	**F-A5T/FS3**
 page. 184	 page. 185	 page. 186	 page. 187	 page. 188	 page. 189
FM-A5V1/LF1	**FM-A5V2/LF1**	**FM-A5V3/LF1**	**FM-A5V4/LF1**	**FM-A5V5/LF1**	**F-A5T/LF1**
 page. 190	 page. 191	 page. 192	 page. 193	 page. 194	 page. 195
FM-A6V1/LS1	**FM-A6V2/LS1**	**FM-A6V3/LS1**	**FM-A6V4/LS1**	**FM-A6V5/LS1**	**F-A6T/LS1**
 page. 196	 page. 197	 page. 198	 page. 199	 page. 200	 page. 201
FM-A6V1/LS8	**FM-A6V2/LS8**	**FM-A6V3/LS8**	**FM-A6V4/LS8**	**FM-A6V5/LS8**	**F-A6T/LS8**
 page. 202	 page. 203	 page. 204	 page. 205	 page. 206	 page. 207
FM-A6V1/FS3	**FM-A6V2/FS3**	**FM-A6V3/FS3**	**FM-A6V4/FS3**	**FM-A6V5/FS3**	**F-A6T/FS3**
 page. 208	 page. 209	 page. 210	 page. 211	 page. 212	 page. 213
FM-A6V1/LF1	**FM-A6V2/LF1**	**FM-A6V3/LF1**	**FM-A6V4/LF1**	**FM-A6V5/LF1**	**F-A6T/LF1**
 page. 214	 page. 215	 page. 216	page. 217	page. 218	page. 219
FM-A7V1/LS1	**FM-A7V2/LS1**	**FM-A7V3/LS1**	**FM-A7V4/LS1**	**FM-A7V5/LS1**	**F-A7T/LS1**
page. 220	page. 221	page. 222	page. 223	page. 224	page. 225
FM-A7V1/LS8	**FM-A7V2/LS8**	**FM-A7V3/LS8**	**FM-A7V4/LS8**	**FM-A7V5/LS8**	**F-A7T/LS8**
page. 226	page. 227	page. 228	page. 229	page. 230	page. 231
FM-A7V1/FS3	**FM-A7V2/FS3**	**FM-A7V3/FS3**	**FM-A7V4/FS3**	**FM-A7V5/FS3**	**F-A7T/FS3**



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FM-A8V1/LS1	**FM-A8V2/LS1**	**FM-A8V3/LS1**	**FM-A8V4/LS1**	**FM-A8V5/LS1**	**F-A8T/LS1**

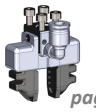
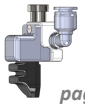
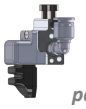
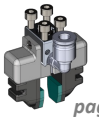
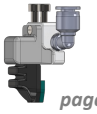
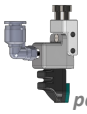
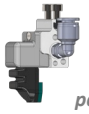
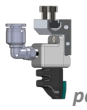
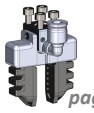
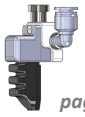
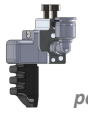
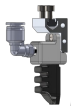
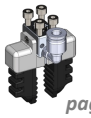
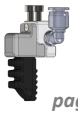
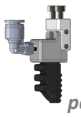
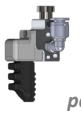
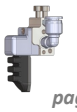
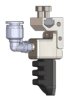
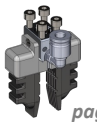
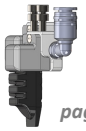
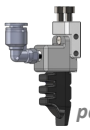
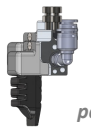
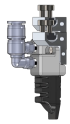
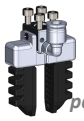
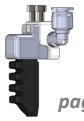


 page. 238	 page. 239	 page. 240	 page. 241	 page. 242	 page. 243
FM-B3V1/LS1	**FM-B3V2/LS1**	**FM-B3V3/LS1**	**FM-B3V4/LS1**	**FM-B3V5/LS1**	**F-B3T/LS1**
 page. 244	 page. 245	 page. 246	 page. 247	 page. 248	 page. 249
FM-B3V1/LF1	**FM-B3V2/LF1**	**FM-B3V3/LF1**	**FM-B3V4/LF1**	**FM-B3V5/LF1**	**F-B3T/LF1**
 page. 250	 page. 251	 page. 252	 page. 253	 page. 254	 page. 255
FM-B4V1/LS1	**FM-B4V2/LS1**	**FM-B4V3/LS1**	**FM-B4V4/LS1**	**FM-B4V5/LS1**	**F-B4T/LS1**
 page. 256	 page. 257	 page. 258	 page. 259	 page. 260	 page. 261
FM-B4V1/LS8	**FM-B4V2/LS8**	**FM-B4V3/LS8**	**FM-B4V4/LS8**	**FM-B4V5/LS8**	**F-B4T/LS8**
 page. 262	 page. 263	 page. 264	 page. 265	 page. 266	 page. 267
FM-B4V1/FS3	**FM-B4V2/FS3**	**FM-B4V3/FS3**	**FM-B4V4/FS3**	**FM-B4V5/FS3**	**F-B4T/FS3**
 page. 268	 page. 269	 page. 270	 page. 271	 page. 272	 page. 273
FM-B4V1/LF1	**FM-B4V2/LF1**	**FM-B4V3/LF1**	**FM-B4V4/LF1**	**FM-B4V5/LF1**	**F-B4T/LF1**
 page. 374	 page. 275	 page. 276	page. 277	page. 278	page. 279
FM-B4V1/NS	**FM-B4V2/NS**	**FM-B4V3/NS**	**FM-B4V4/NS**	**FM-B4V5/NS**	**F-B4T/NS**
page. 280	page. 281	page. 282	page. 283	page. 284	page. 285
FM-B5V1/LS1	**FM-B5V2/LS1**	**FM-B5V3/LS1**	**FM-B5V4/LS1**	**FM-B5V5/LS1**	**F-B5T/LS1**
page. 286	page. 287	page. 288	page. 289	page. 290	page. 291
FM-B5V1/FS3	**FM-B5V2/FS3**	**FM-B5V3/FS3**	**FM-B5V4/FS3**	**FM-B5V5/FS3**	**F-B5T/FS3**

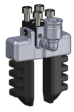
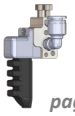
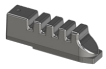
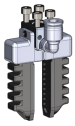
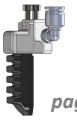
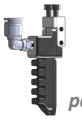
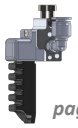
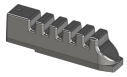
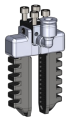
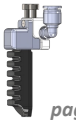
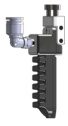
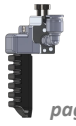
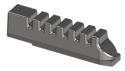
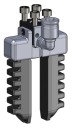
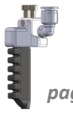
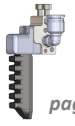
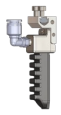
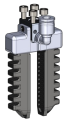
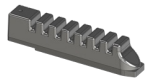


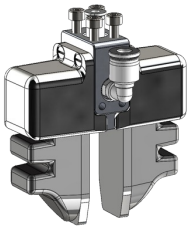
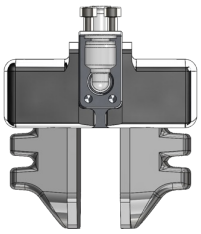
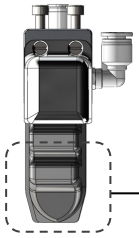
page. 292	page. 293	page. 294	page. 295	page. 296	page. 297
FM-B5V1/LF1	FM-B5V2/LF1	FM-B5V3/LF1	FM-B5V4/LF1	FM-B5V5/LF1	F-B5T/LF1
page. 298	page. 299	page. 300	page. 301	page. 302	page. 303
FM-B6V1/LS1	FM-B6V2/LS1	FM-B6V3/LS1	FM-B6V4/LS1	FM-B6V5/LS1	F-B6T/LS1
page. 304	page. 305	page. 306	page. 307	page. 308	page. 309
FM-B6V1/LS8	FM-B6V2/LS8	FM-B6V3/LS8	FM-B6V4/LS8	FM-B6V5/LS8	F-B6T/LS8
page. 310	page. 311	page. 312	page. 313	page. 314	page. 315
FM-B6V1/FS3	FM-B6V2/FS3	FM-B6V3/FS3	FM-B6V4/FS3	FM-B6V5/FS3	F-B6T/FS3
page. 316	page. 317	page. 318	page. 319	page. 320	page. 321
FM-B7V1/LS1	FM-B7V2/LS1	FM-B7V3/LS1	FM-B7V4/LS1	FM-B7V5/LS1	F-B7T/LS1
page. 322	page. 323	page. 324	page. 325	page. 326	page. 327
FM-B8V1/LS1	FM-B8V2/LS1	FM-B8V3/LS1	FM-B8V4/LS1	FM-B8V5/LS1	F-B8T/LS1
page. 328	page. 329	page. 330	page. 331	page. 332	page. 333
FM-B8V1/FS3	FM-B8V2/FS3	FM-B8V3/FS3	FM-B8V4/FS3	FM-B8V5/FS3	F-B8T/FS3
page. 334	page. 335	page. 336	page. 337	page. 338	page. 339
FM-B8V1/LF1	FM-B8V2/LF1	FM-B8V3/LF1	FM-B8V4/LF1	FM-B8V5/LF1	F-B8T/LF1



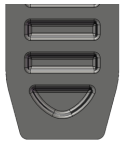
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FM-C3V1/LS1	**FM-C3V2/LS1**	**FM-C3V3/LS1**	**FM-C3V4/LS1**	**FM-C3V5/LS1**	**F-C3T/LS1**
 page. 346	 page. 347	 page. 348	 page. 349	 page. 350	 page. 351
FM-C3V1/NS	**FM-C3V2/NS**	**FM-C3V3/NS**	**FM-C3V4/NS**	**FM-C3V5/NS**	**F-C3T/NS**
 page. 352	 page. 353	 page. 354	 page. 355	 page. 356	 page. 357
FM-C4V1/LS1	**FM-C4V2/LS1**	**FM-C4V3/LS1**	**FM-C4V4/LS1**	**FM-C4V5/LS1**	**F-C4T/LS1**
 page. 358	 page. 359	 page. 360	 page. 361	 page. 362	 page. 363
FM-C4V1/LS8	**FM-C4V2/LS8**	**FM-C4V3/LS8**	**FM-C4V4/LS8**	**FM-C4V5/LS8**	**F-C4T/LS8**
 page. 364	 page. 365	 page. 366	 page. 367	 page. 368	 page. 369
FM-C4V1/LF1	**FM-C4V2/LF1**	**FM-C4V3/LF1**	**FM-C4V4/LF1**	**FM-C4V5/LF1**	**F-C4T/LF1**
 page. 370	 page. 371	 page. 372	 page. 373	 page. 374	 page. 375
FM-C4V1/V15	**FM-C4V2/V15**	**FM-C4V3/V15**	**FM-C4V4/V15**	**FM-C4V5/V15**	**F-C4T/V15**
 page. 376	 page. 377	 page. 378	page. 379	page. 380	page. 381
FM-C5V1/LS1	**FM-C5V2/LS1**	**FM-C5V3/LS1**	**FM-C5V4/LS1**	**FM-C5V5/LS1**	**F-C5T/LS1**
page. 382	page. 383	page. 384	page. 385	page. 386	page. 387
FM-C5V1/LS8	**FM-C5V2/LS8**	**FM-C5V3/LS8**	**FM-C5V4/LS8**	**FM-C5V5/LS8**	**F-C5T/LS8**
page. 388	page. 389	page. 390	page. 391	page. 392	page. 393
FM-C5V1/FS3	**FM-C5V2/FS3**	**FM-C5V3/FS3**	**FM-C5V4/FS3**	**FM-C5V5/FS3**	**F-C5T/FS3**



 *page. 394*	 *page. 395*	 *page. 396*	 *page. 397*	 *page. 398*	 *page. 399*
FM-C5V1/LF1	**FM-C5V2/LF1**	**FM-C5V3/LF1**	**FM-C5V4/LF1**	**FM-C5V5/LF1**	**F-C5T/LF1**
 *page. 400*	 *page. 401*	 *page. 402*	 *page. 403*	 *page. 404*	 *page. 405*
FM-C6V1/LS1	**FM-C6V2/LS1**	**FM-C6V3/LS1**	**FM-C6V4/LS1**	**FM-C6V5/LS1**	**F-C6T/LS1**
 *page. 406*	 *page. 407*	 *page. 408*	 *page. 409*	 *page. 410*	 *page. 411*
FM-C7V1/LS1	**FM-C7V2/LS1**	**FM-C7V3/LS1**	**FM-C7V4/LS1**	**FM-C7V5/LS1**	**F-C7T/LS1**
 *page. 412*	 *page. 413*	 *page. 414*	 *page. 415*	 *page. 416*	 *page. 417*
FM-C7V1/LF1	**FM-C7V2/LF1**	**FM-C7V3/LF1**	**FM-C7V4/LF1**	**FM-C7V5/LF1**	**F-C7T/LF1**
 *page. 418*	 *page. 419*	 *page. 420*	 *page. 421*	 *page. 422*	 *page. 423*
FM-C8V1/LS1	**FM-C8V2/LS1**	**FM-C8V3/LS1**	**FM-C8V4/LS1**	**FM-C8V5/LS1**	**F-C8T/LS1**

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

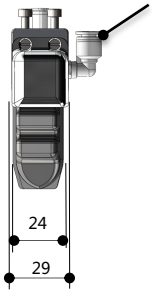


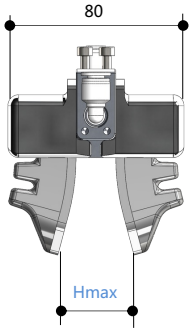

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V1/LS1[P]	FM-A3V1/LS1[PAS]	FM-A3V1/LS1[H]	FM-A3V1/LS1[HAS]

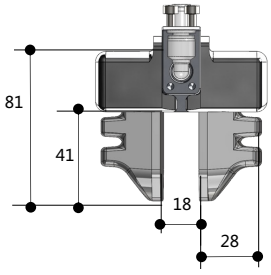
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
1	34	⚠ 120	700	153	1	32	⚠ 300	940	153

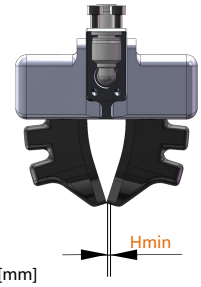
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



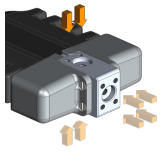


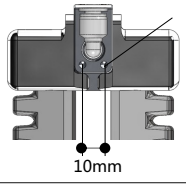


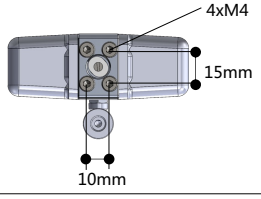


The measuring unit: [mm]

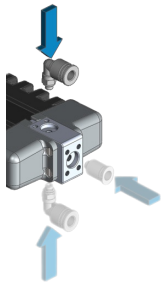
Fixation



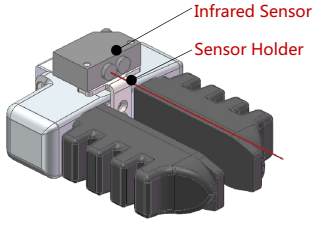




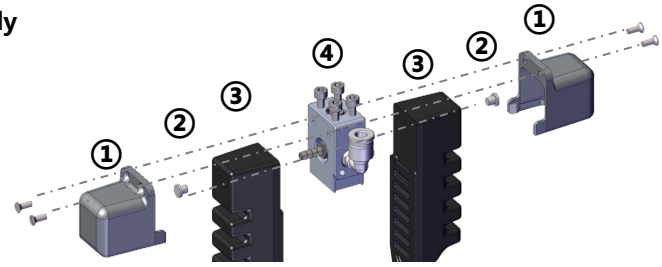
Air Intake



Sensor Installation



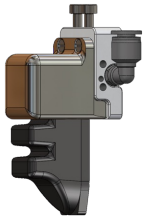
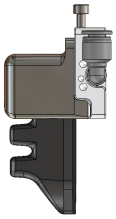
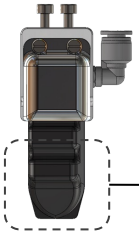
Assembly



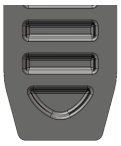
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



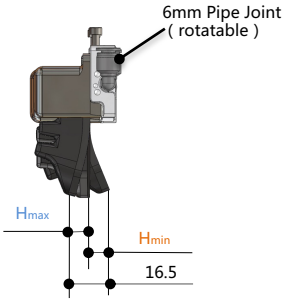

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V2/LS1[P]	FM-A3V2/LS1[PAS]	FM-A3V2/LS1[H]	FM-A3V2/LS1[HAS]

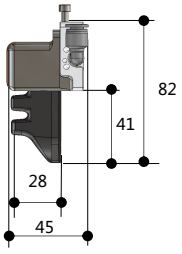
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	g 350	92	8.5	7	⚠ 300	g 470	92

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

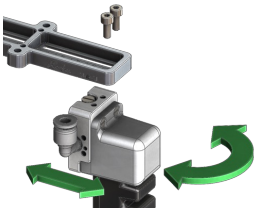




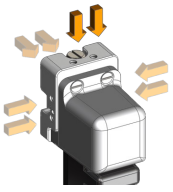
The measuring unit: [mm]

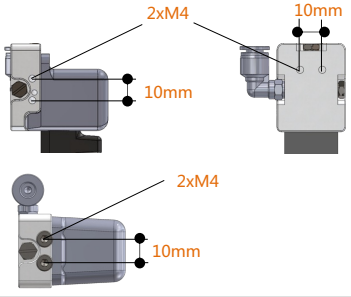


Pose Adjustment

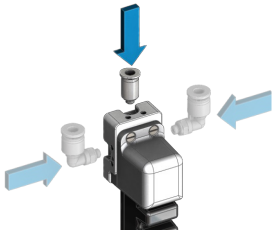


Fixation

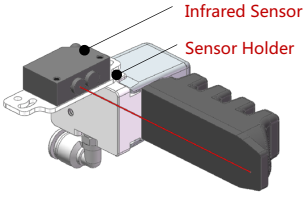




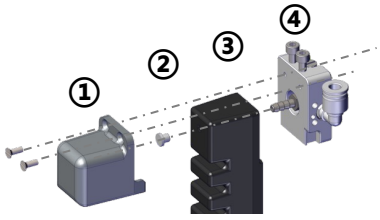
Air Intake



Sensor Installation

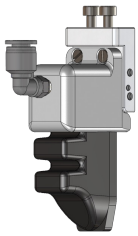


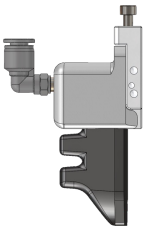
Assembly

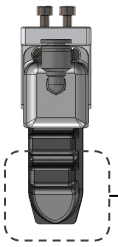


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

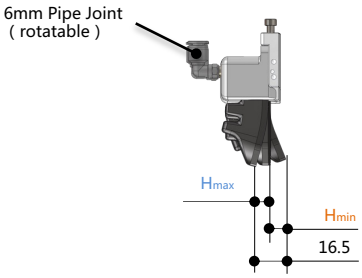


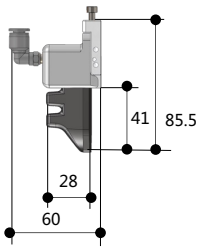
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V3/LS1[P]	FM-A3V3/LS1[PAS]	FM-A3V3/LS1[H]	FM-A3V3/LS1[HAS]

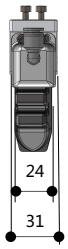
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	350	77	8.5	7	⚠300	470	77

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



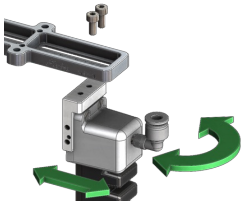




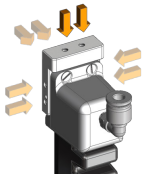
The measuring unit: [mm]

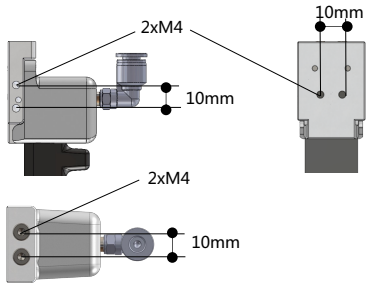
FM

Pose Adjustment



Fixation

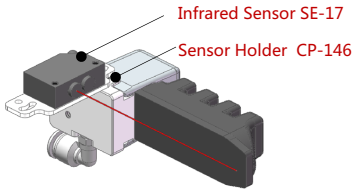




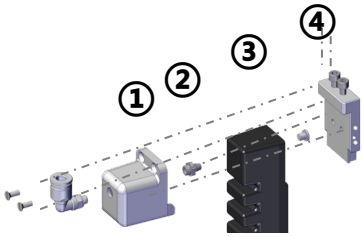
Air Intake



Sensor Installation

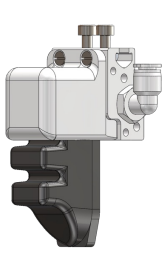


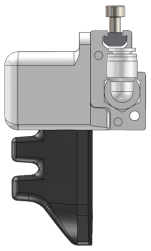
Assembly

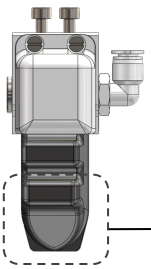


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

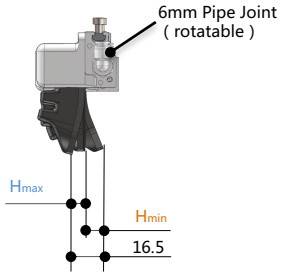


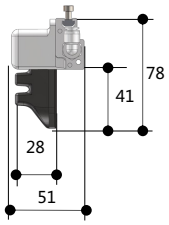
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V4/LS1[P]	FM-A3V4/LS1[PAS]	FM-A3V4/LS1[H]	FM-A3V4/LS1[HAS]

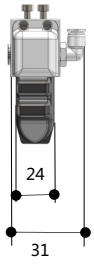
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	97	8.5	7	⚠ 300	470	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



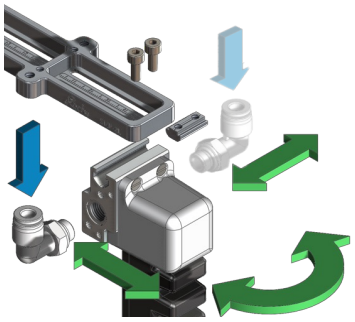




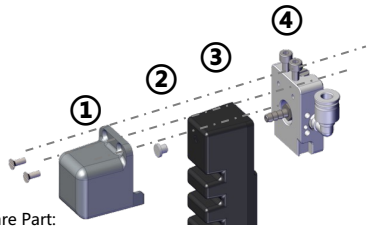
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



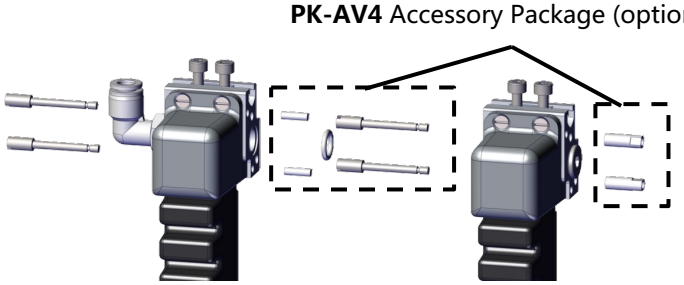
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

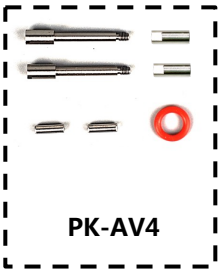
Series combination:

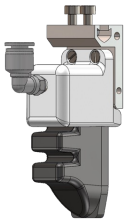
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

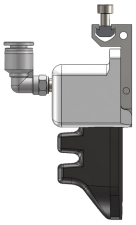
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

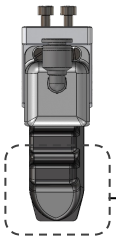
PK-AV4 Accessory Package (optional)











Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

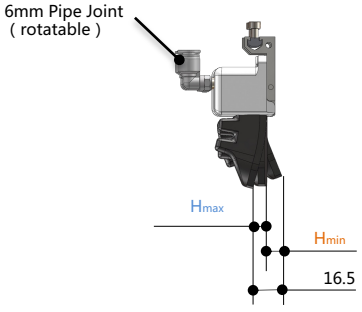


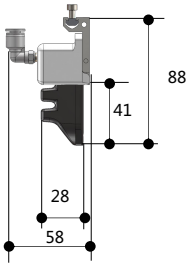
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V5/LS1[P]	FM-A3V5/LS1[PAS]	FM-A3V5/LS1[H]	FM-A3V5/LS1[HAS]

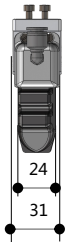
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	120	350	76	8.5	7	300	470	76

Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

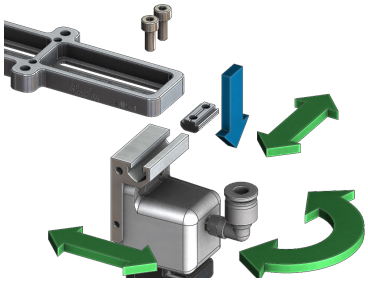




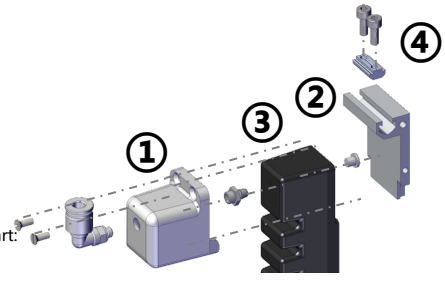


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



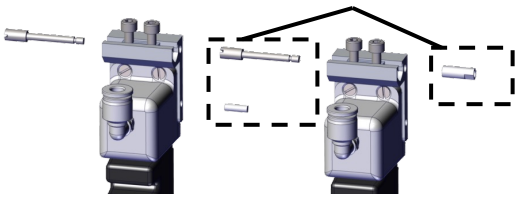
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

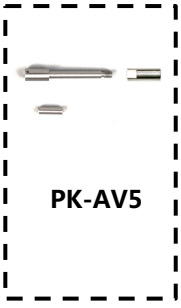
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

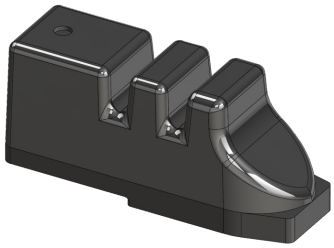
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

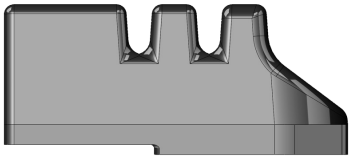
PK-AV5 Accessory Package (optional)





FM







Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A3T/LS1[P]	F-A3T/LS1[PAS]	F-A3T/LS1[H]	F-A3T/LS1[HAS]

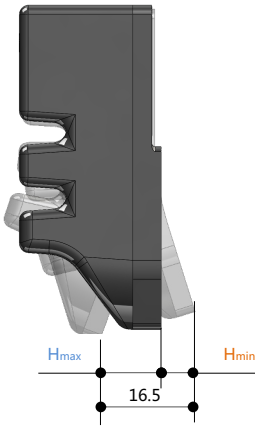
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	350	33	8.5	7	⚠300	470	33

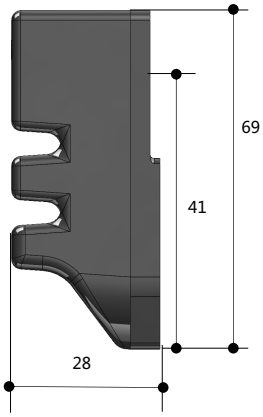
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

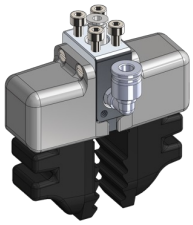
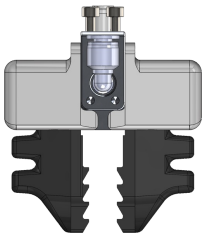
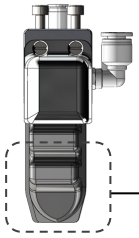
FM

Dimension Parameters

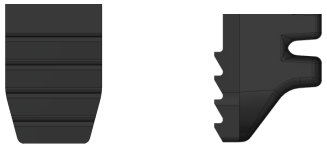






Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

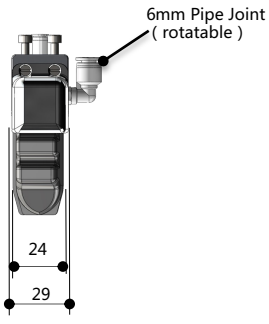


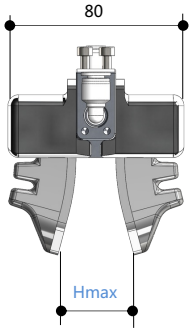
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V1/LS8[P]	FM-	FM-A3V1/LS8[H]	FM-A3V1/LS8[HAS]

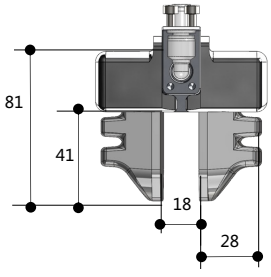
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
1	34	⚠ 120	g 700	153	1	32	⚠ 300	g 940	153

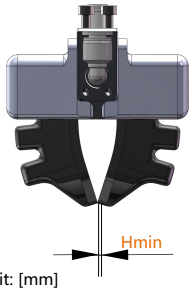
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



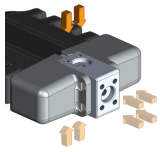


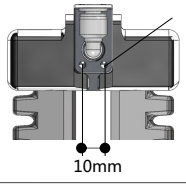


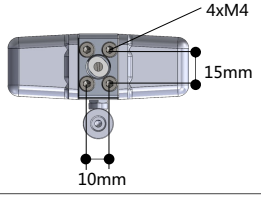


The measuring unit: [mm]

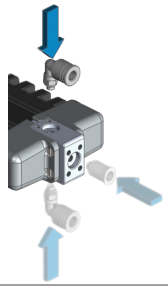
Fixation



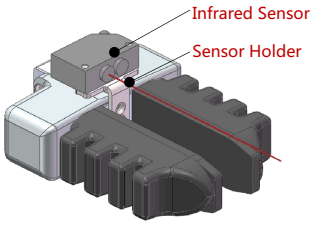




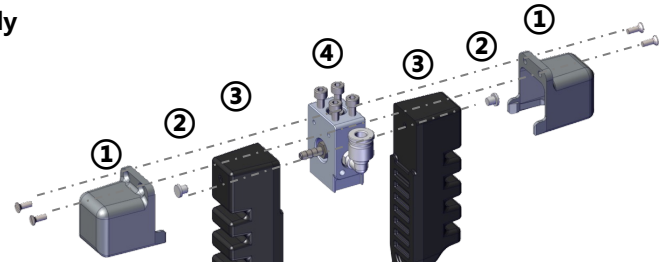
Air Intake



Sensor Installation



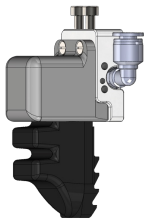
Assembly

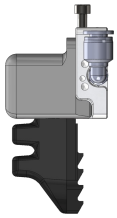


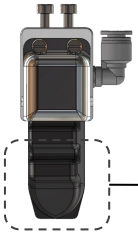
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

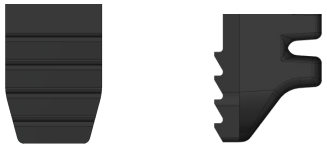
FM







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.



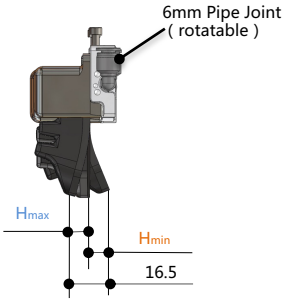
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V2/LS8[P]	FM-A3V2/LS8[PAS]	FM-A3V2/LS8[H]	FM-A3V2/LS8[HAS]

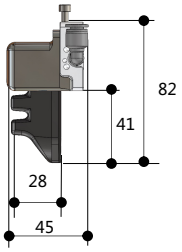
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	92	8.5	7	⚠ 300	470	92

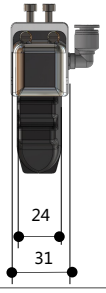
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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FM

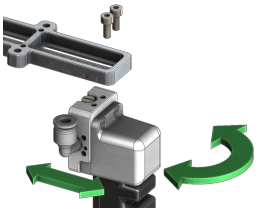




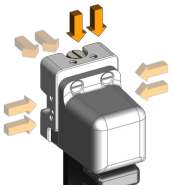


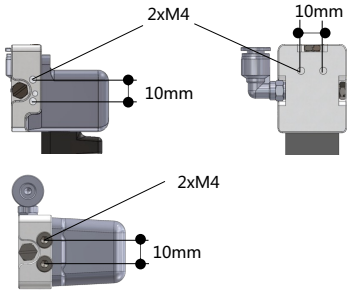
The measuring unit: [mm]

Pose Adjustment

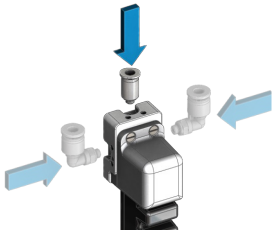


Fixation

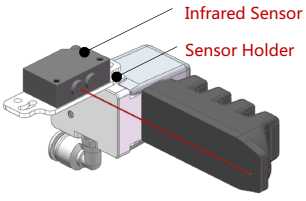




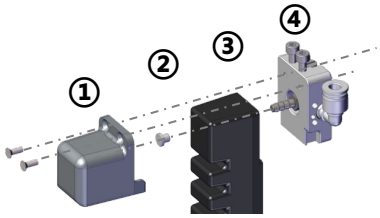
Air Intake



Sensor Installation

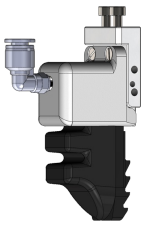


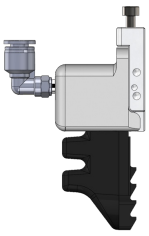
Assembly

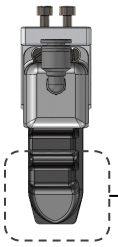


Spare Part:

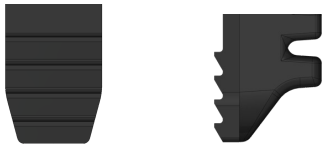
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

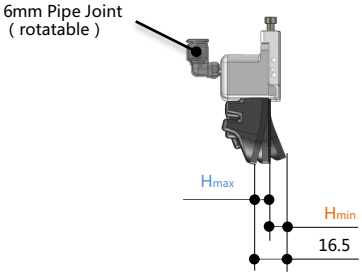


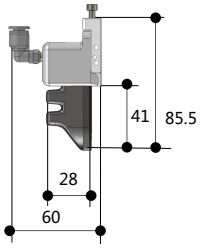
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V3/LS8[P]	FM-A3V3/LS8[PAS]	FM-A3V3/LS8[H]	FM-A3V3/LS8[HAS]

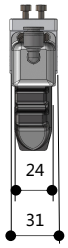
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	77	8.5	7	⚠ 300	470	77

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



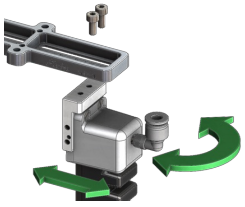




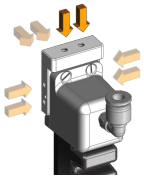
The measuring unit: [mm]

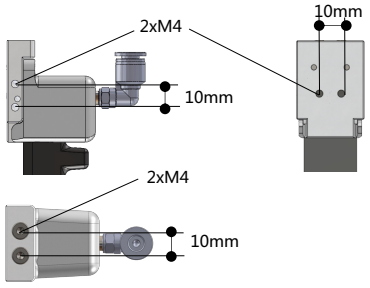
FM

Pose Adjustment



Fixation

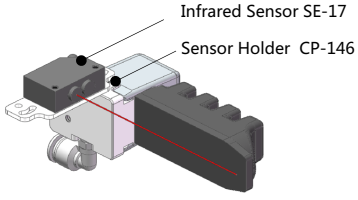




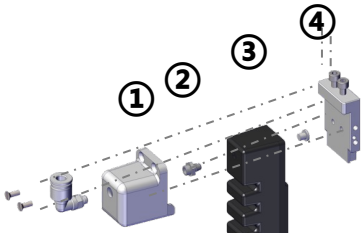
Air Intake



Sensor Installation

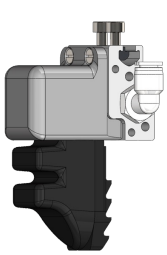


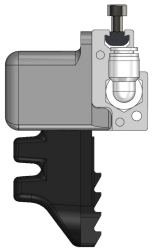
Assembly

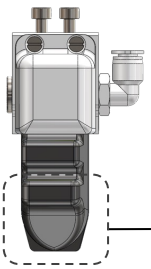


Spare Part:

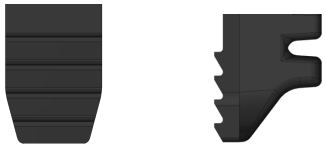
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

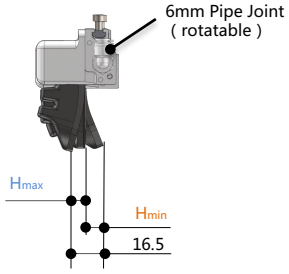


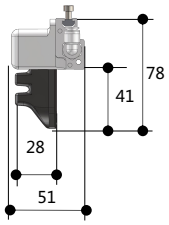
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V4/LS8[P]	FM-A3V4/LS8[PAS]	FM-A3V4/LS8[H]	FM-A3V4/LS8[HAS]

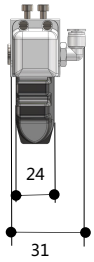
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	97	8.5	7	⚠ 300	470	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



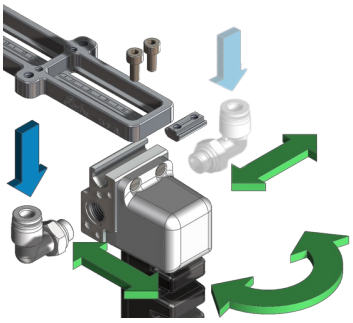




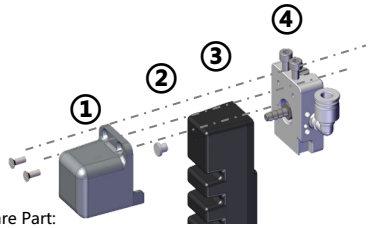
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



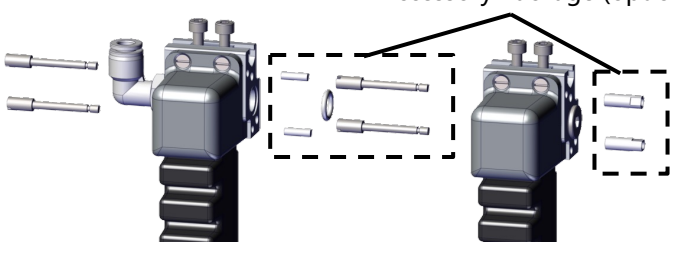
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

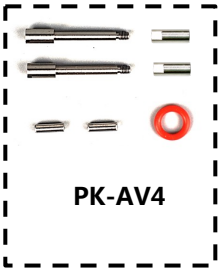
Series combination:

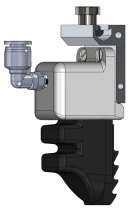
1. Build multiple finger modules in series to increase the grip force.
2. The finger module has the function of confluence, realizing the seamless splicing between fingers. It can drive multiple fingers to move at the same time qith only one air pipe (sharing the air inlet) to save space.

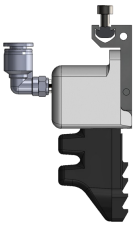
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

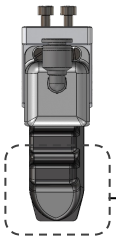
PK-AV4 Accessory Package (optional)



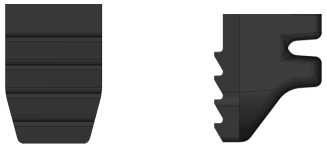








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

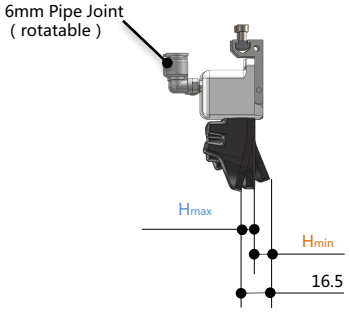


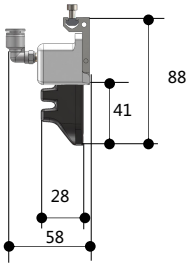
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V5/LS8[P]	FM-A3V5/LS8[PAS]	FM-A3V5/LS8[H]	FM-A3V5/LS8[HAS]

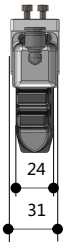
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	76	8.5	7	⚠ 300	470	76

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



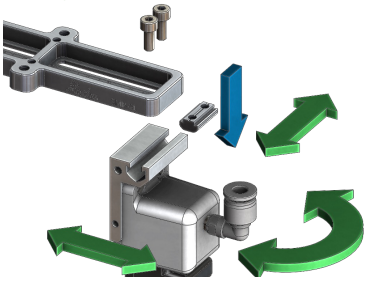




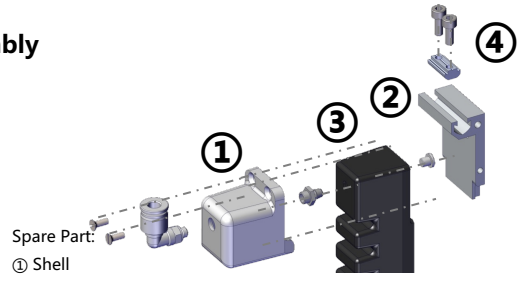
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



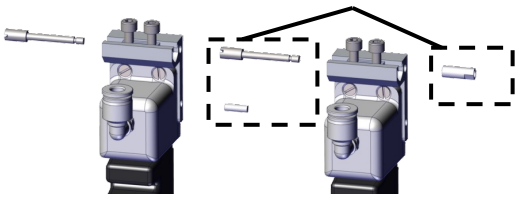
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

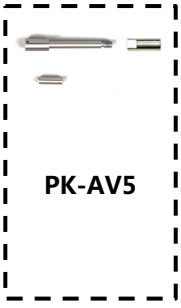
Series combination:

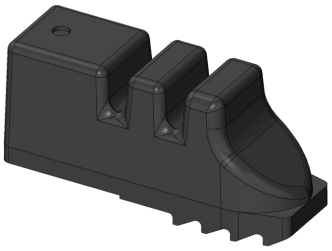
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

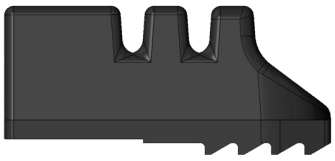
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A3T/LS8[P]	F-A3T/LS8[PAS]	F-A3T/LS8[H]	F-A3T/LS8[HAS]

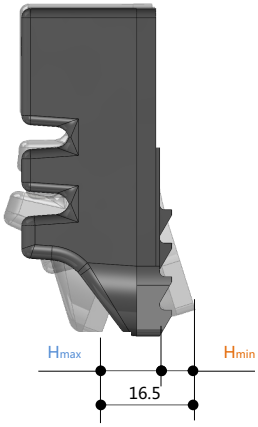
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	33	8.5	7	⚠ 300	470	33

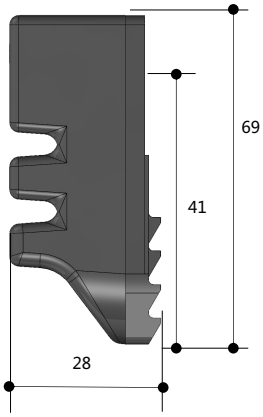
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

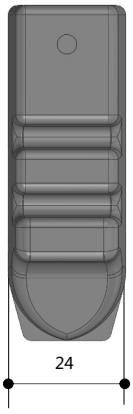
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

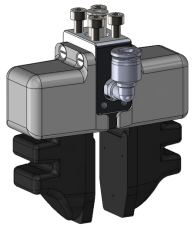
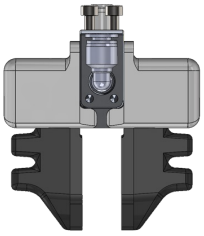
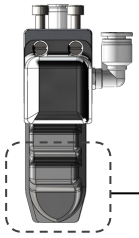
FM

Dimension Parameters







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

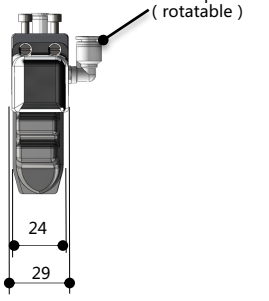


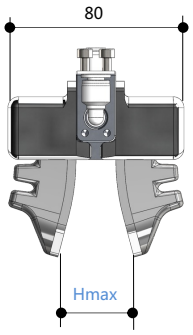

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V1/LF1[P]	FM-A3V1/LF1[PAS]	FM-A3V1/LF1[H]	FM-A3V1/LF1[HAS]

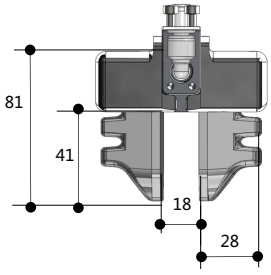
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
1	34	⚠ 120	700	153	1	32	⚠ 300	940	153

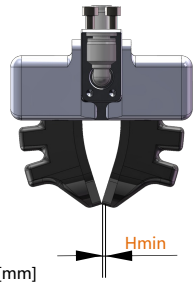
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



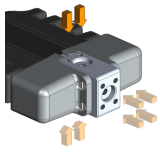


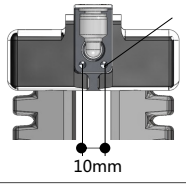


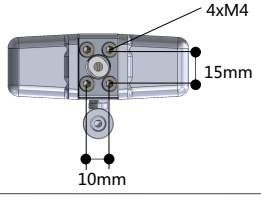


The measuring unit: [mm]

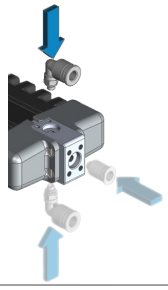
Fixation



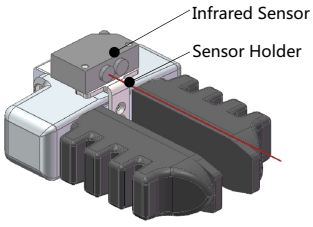




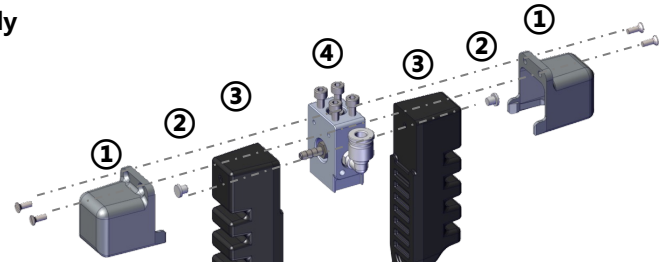
Air Intake



Sensor Installation



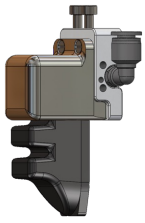
Assembly

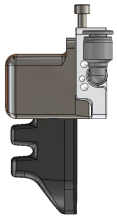


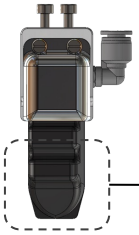
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food



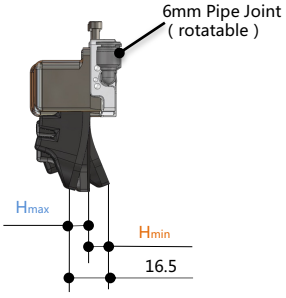
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V2/LF1[P]	FM-A3V2/LF1[PAS]	FM-A3V2/LF1[H]	FM-A3V2/LF1[HAS]

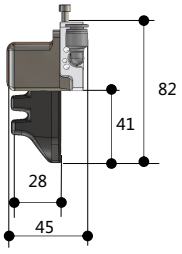
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	g 350	92	8.5	7	⚠ 300	g 470	92

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

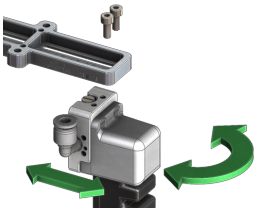




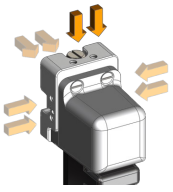
The measuring unit: [mm]

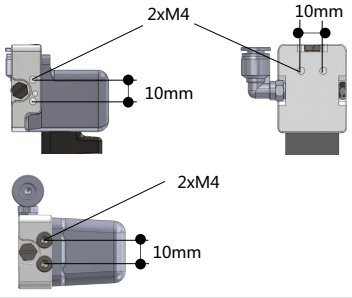


Pose Adjustment

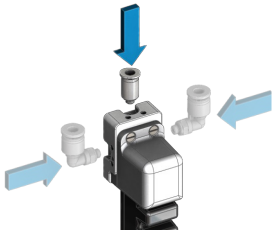


Fixation

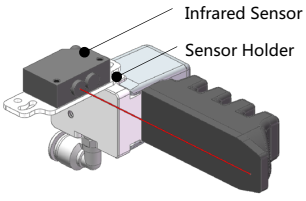




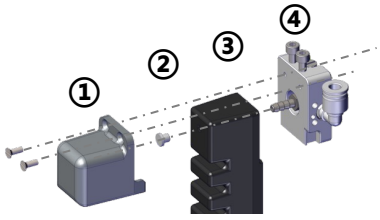
Air Intake



Sensor Installation

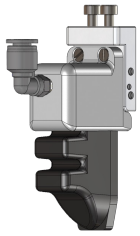


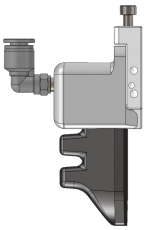
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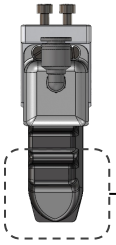


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

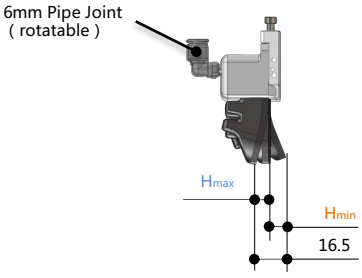


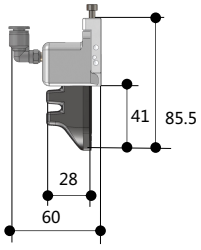
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
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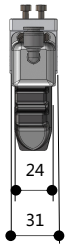
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	350	77	8.5	7	⚠300	470	77

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

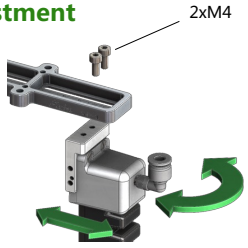




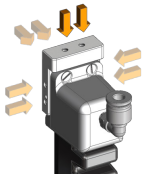


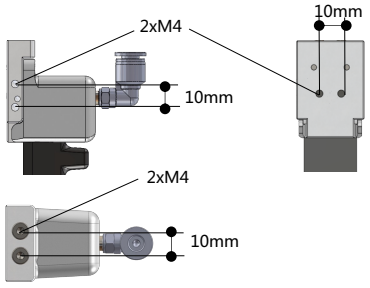
The measuring unit: [mm]

Pose Adjustment



Fixation

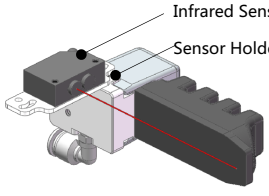




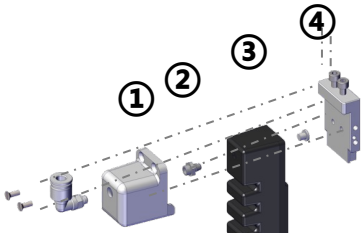
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

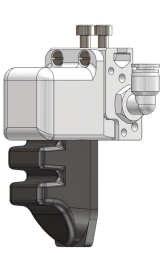
Finger Module

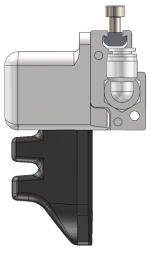
FM -A3V4 / LF1

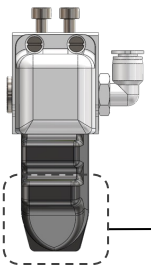
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Scan to watch videos







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

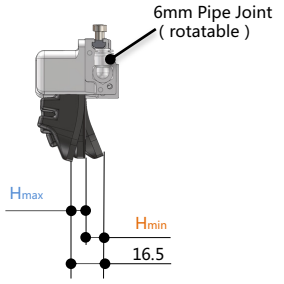


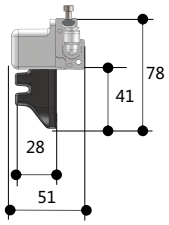
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V4/LF1[P]	FM-A3V4/LF1[PAS]	FM-A3V4/LF1[H]	FM-A3V4/LF1[HAS]

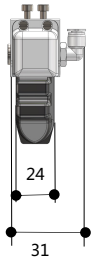
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	350	97	8.5	7	⚠300	470	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



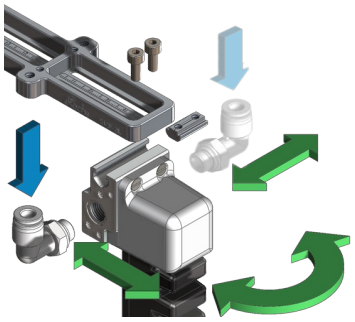




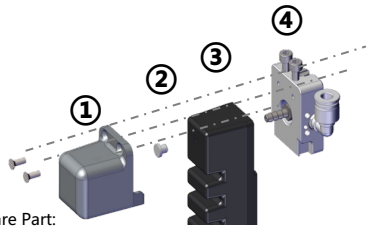
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



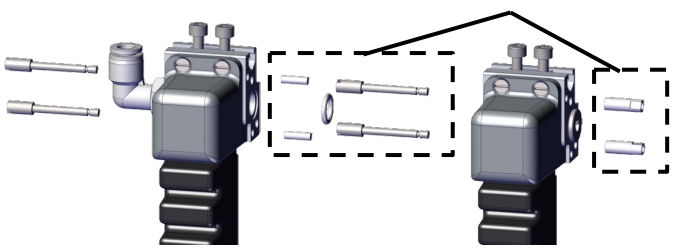
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

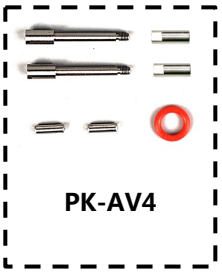
Series combination:

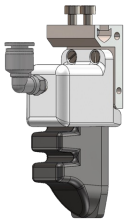
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

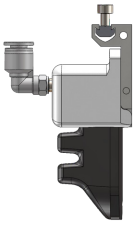
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

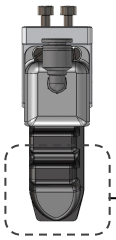
PK-AV4 Accessory Package (optional)











Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

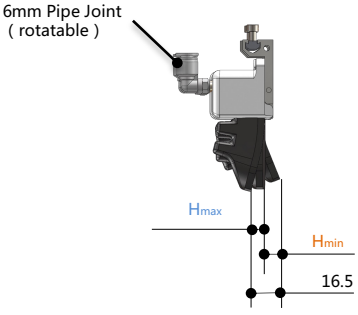


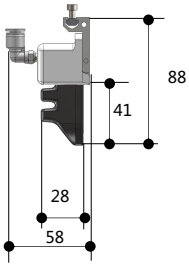
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A3V5/LF1[P]	FM-A3V5/LF1[PAS]	FM-A3V5/LF1[H]	FM-A3V5/LF1[HAS]

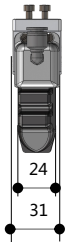
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠ 120	350	76	8.5	7	⚠ 300	470	76

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

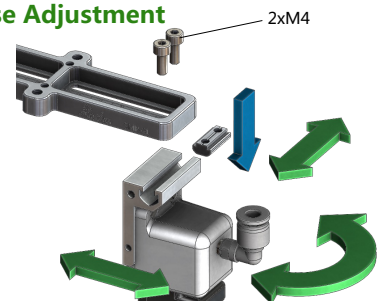




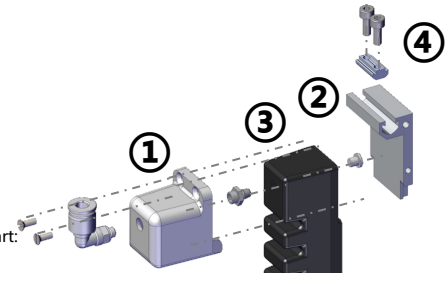


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



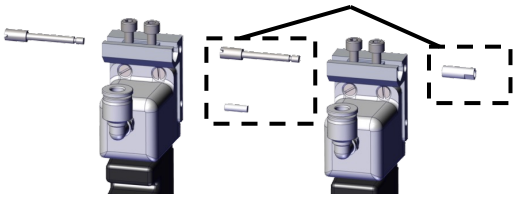
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

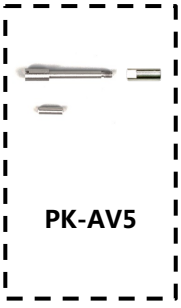
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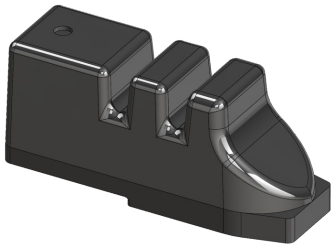
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

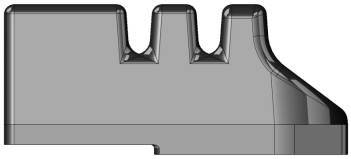
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

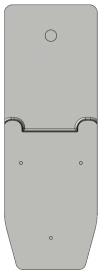
PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A3T/LF1[P]	F-A3T/LF1[PAS]	F-A3T/LF1[H]	F-A3T/LF1[HAS]

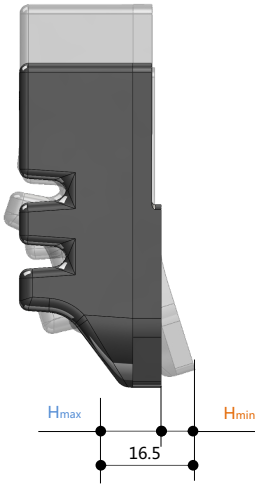
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
8.5	8	⚠120	350	33	8.5	7	⚠300	470	33

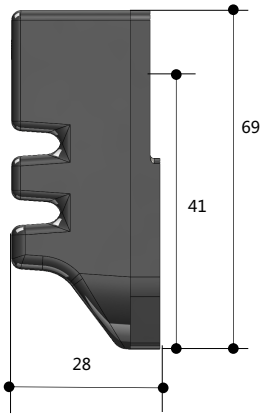
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

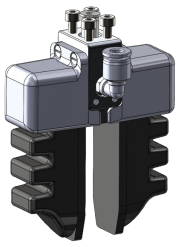
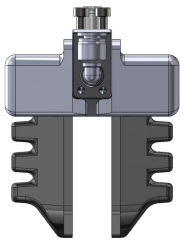
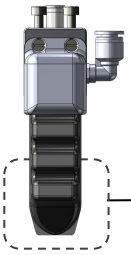
FM

Dimension Parameters







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



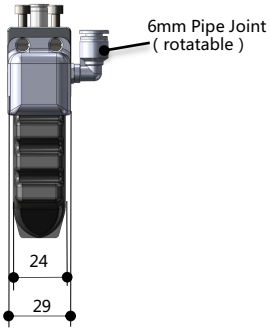
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V1/LS1[P]	FM-A4V1/LS1[PAS]	FM-A4V1/LS1[H]	FM-A4V1/LS1[HAS]

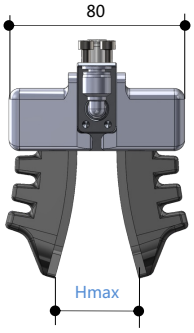
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	38	⚠ 120	680	167	0	42	⚠ 300	980	167

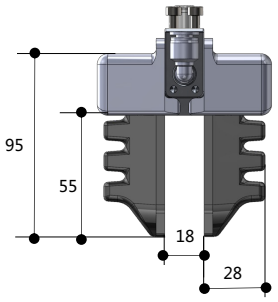
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

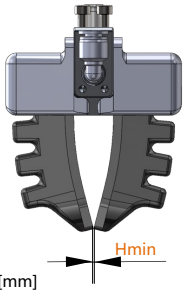
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



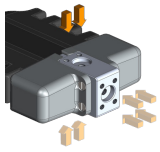


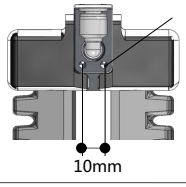


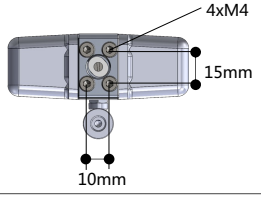


The measuring unit: [mm]

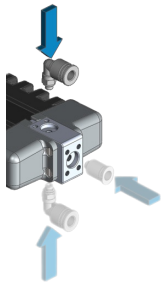
Fixation



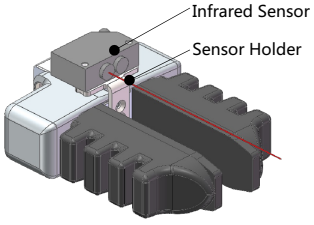




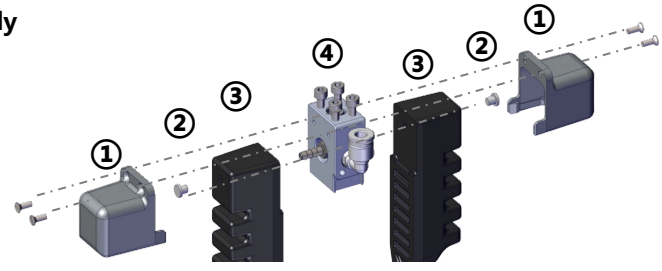
Air Intake



Sensor Installation

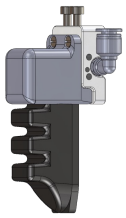
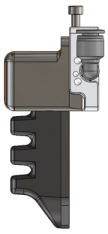
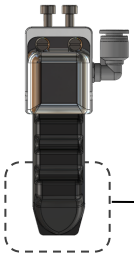


Assembly

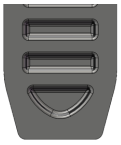


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

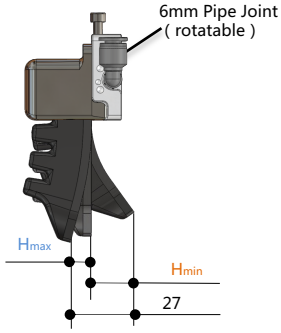


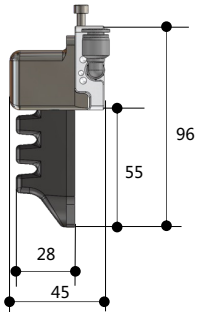

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V2/LS1[P]	FM-A4V2/LS1[PAS]	FM-A4V2/LS1[H]	FM-A4V2/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	99	17	12	⚠ 300	490	99

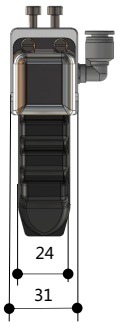
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

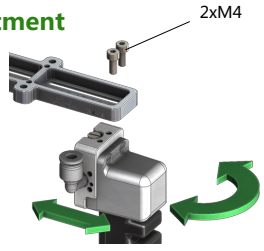




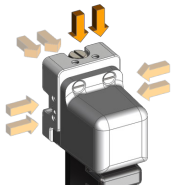
The measuring unit: [mm]

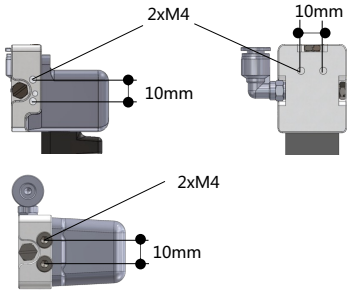


Pose Adjustment

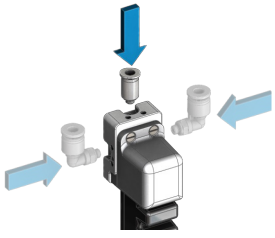


Fixation

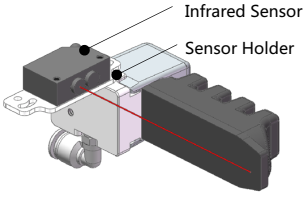




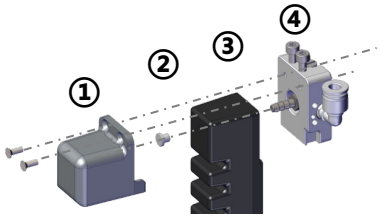
Air Intake



Sensor Installation



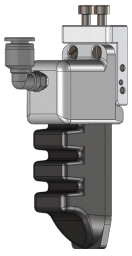
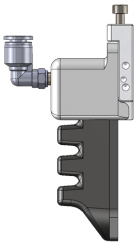
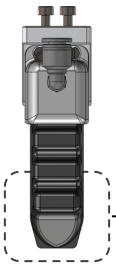
Assembly



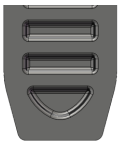
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

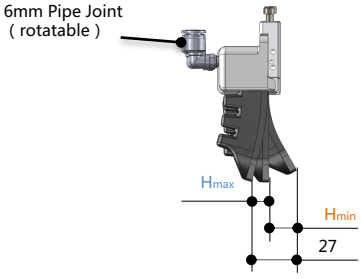


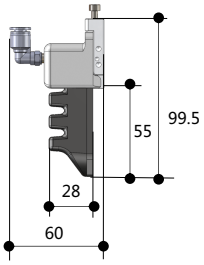

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V3/LS1[P]	FM-A4V3/LS1[PAS]	FM-A4V3/LS1[H]	FM-A4V3/LS1[HAS]

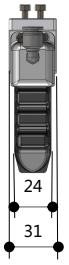
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	120	340	84	17	12	300	490	84

Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



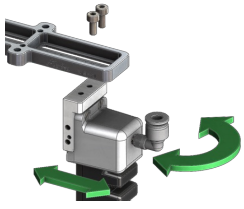




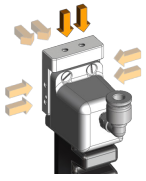
The measuring unit: [mm]

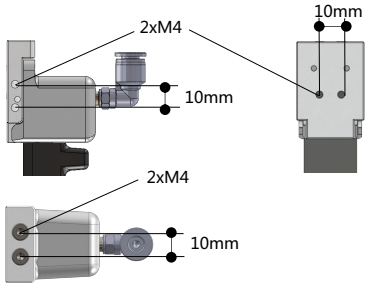
FM

Pose Adjustment



Fixation

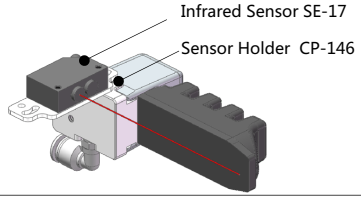




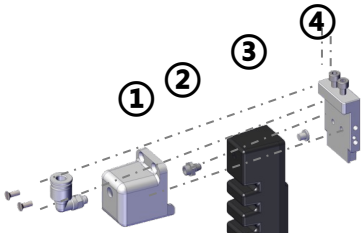
Air Intake



Sensor Installation

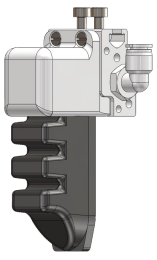
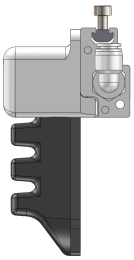
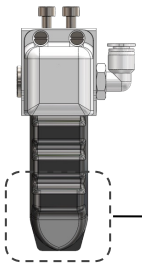


Assembly

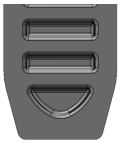


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

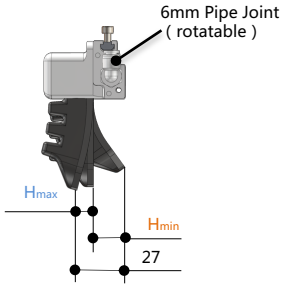


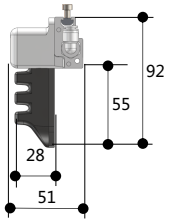

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V4/LS1[P]	FM-A4V4/LS1[PAS]	FM-A4V4/LS1[H]	FM-A4V4/LS1[HAS]

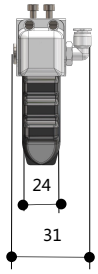
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	104	17	12	⚠300	490	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



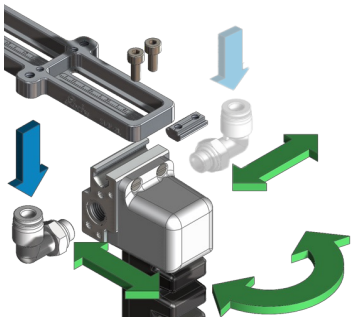




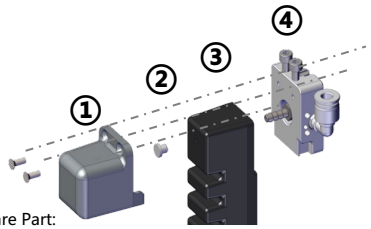
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



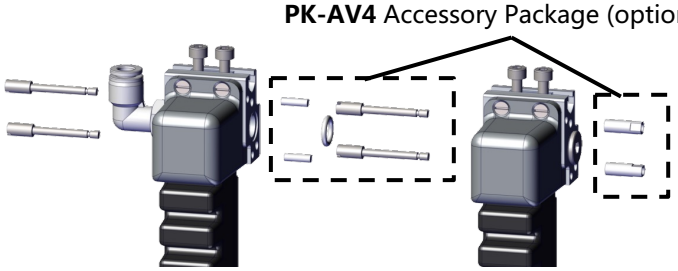
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





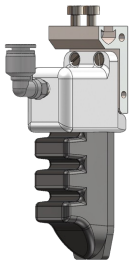
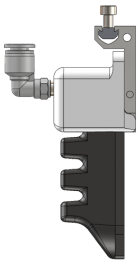
Finger Module

FM -A4V5 / LS1

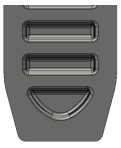
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



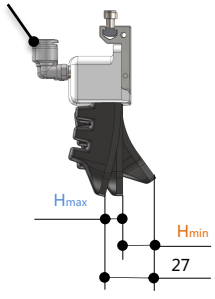

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V5/LS1[P]	FM-A4V5/LS1[PAS]	FM-A4V5/LS1[H]	FM-A4V5/LS1[HAS]

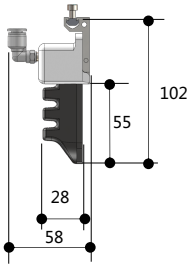
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	83	17	12	⚠ 300	490	83

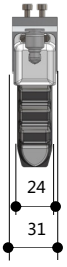
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)



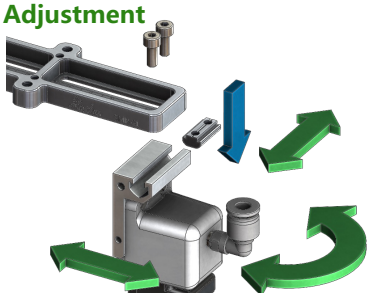




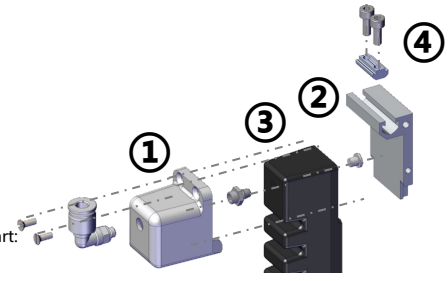
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



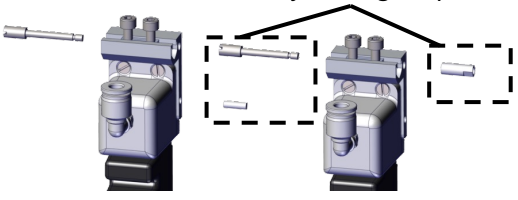
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

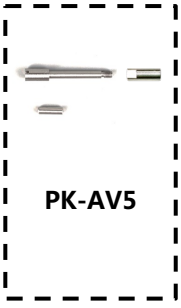
Series combination:

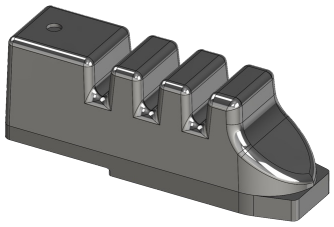
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

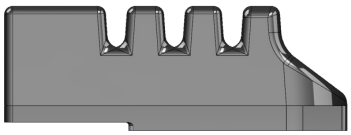
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

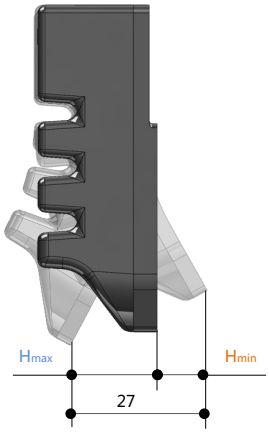
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A4T/LS1[P]	F-A4T/LS1[PAS]	F-A4T/LS1[H]	F-A4T/LS1[HAS]

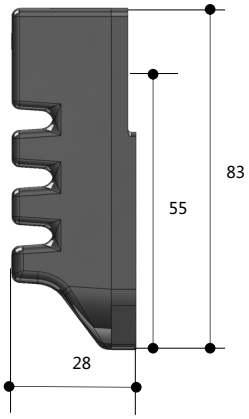
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	g 340	40	17	12	⚠ 300	g 490	40

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

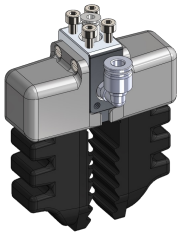
Dimension Parameters

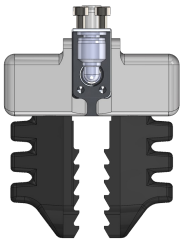


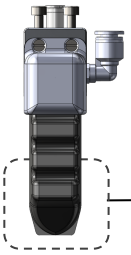




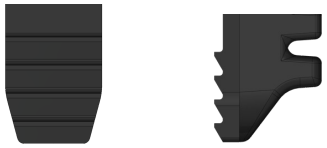
FM







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.



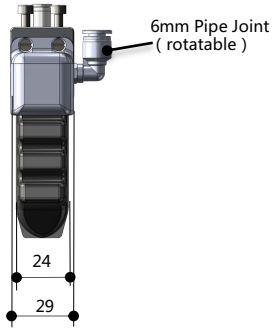
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V1/LS8[P]	FM-A4V1/LS8[PAS]	FM-A4V1/LS8[H]	FM-A4V1/LS8[HAS]

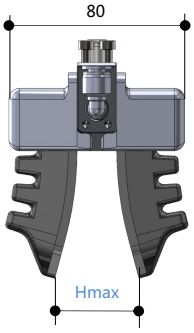
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0	38	⚠ 120	680	167	0	42	⚠ 300	980	167

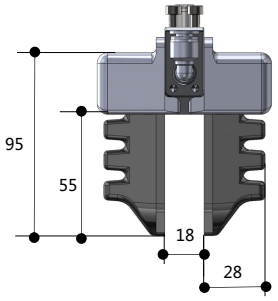
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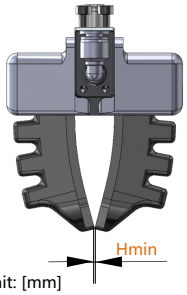
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FM



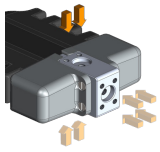


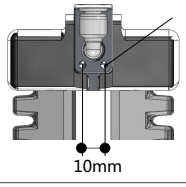


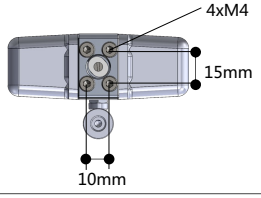


The measuring unit: [mm]

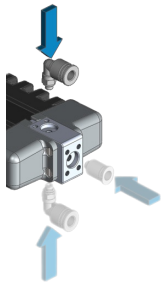
Fixation



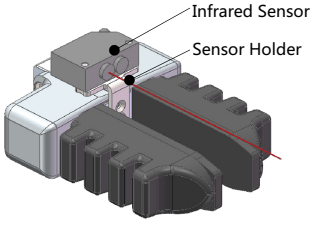




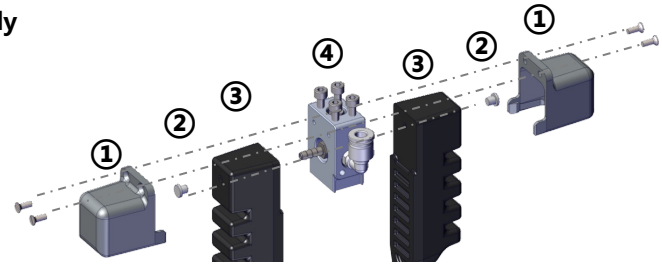
Air Intake



Sensor Installation

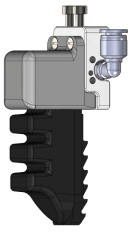
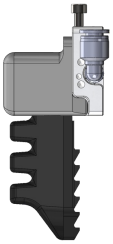
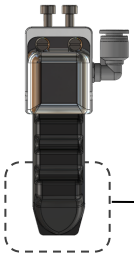


Assembly

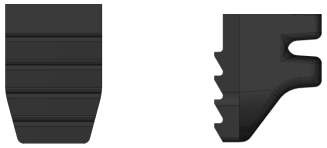


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

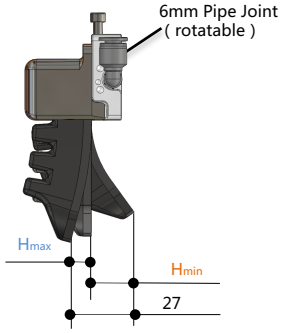


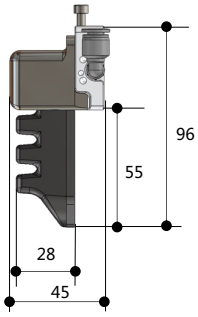
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V2/LS8[P]	FM-A4V2/LS8[PAS]	FM-A4V2/LS8[H]	FM-A4V2/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	99	17	12	⚠ 300	490	99

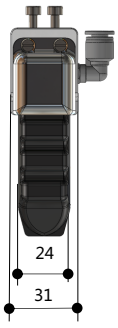
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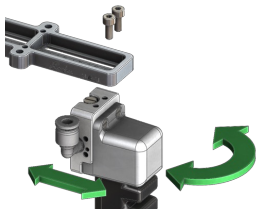




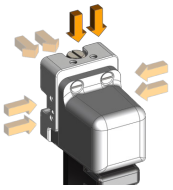
The measuring unit: [mm]

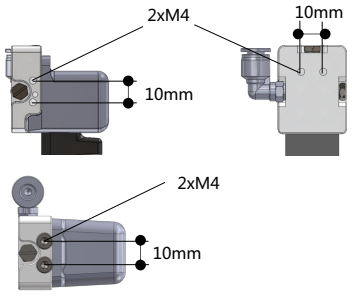


Pose Adjustment

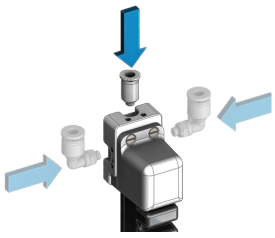


Fixation

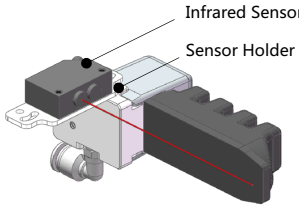




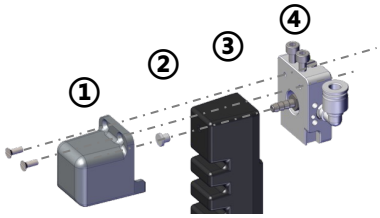
Air Intake



Sensor Installation

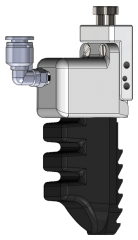
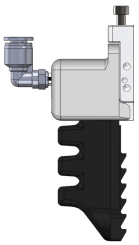
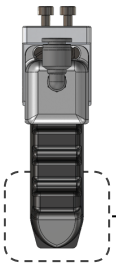


Assembly

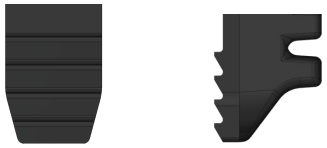


Spare Part:
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② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.



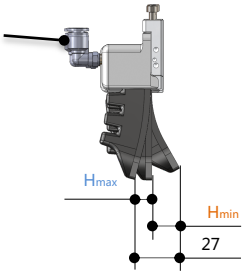
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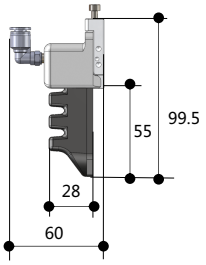
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	84	17	12	⚠300	490	84

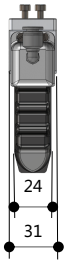
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)



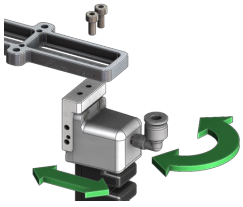




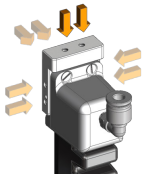
The measuring unit: [mm]

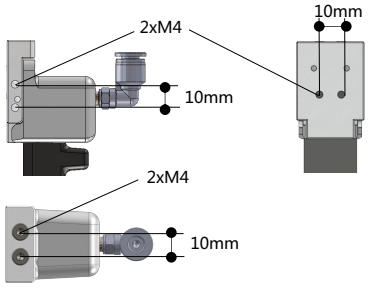
FM

Pose Adjustment



Fixation

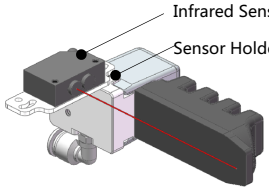




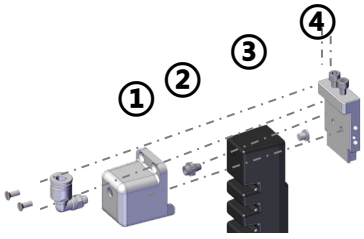
Air Intake



Sensor Installation

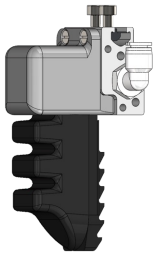


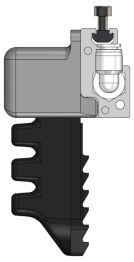
Assembly

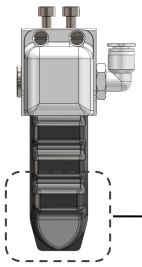


Spare Part:

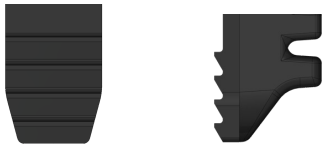
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

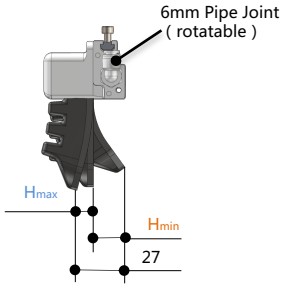


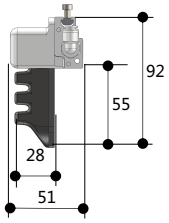
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V4/LS8[P]	FM-A4V4/LS8[PAS]	FM-A4V4/LS8[H]	FM-A4V4/LS8[HAS]

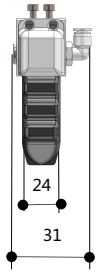
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	104	17	12	⚠ 300	490	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



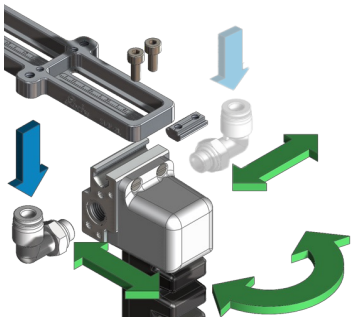




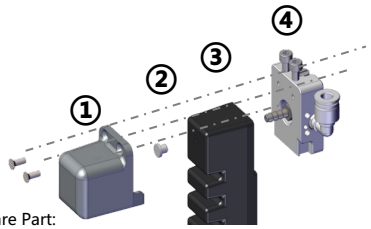
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



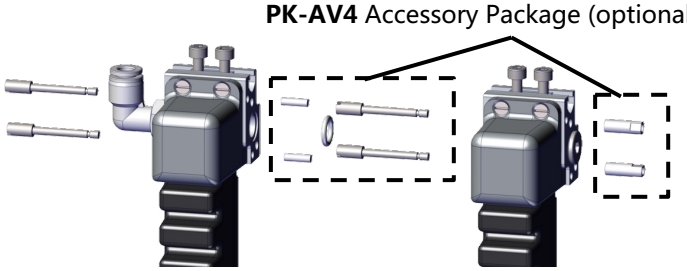
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

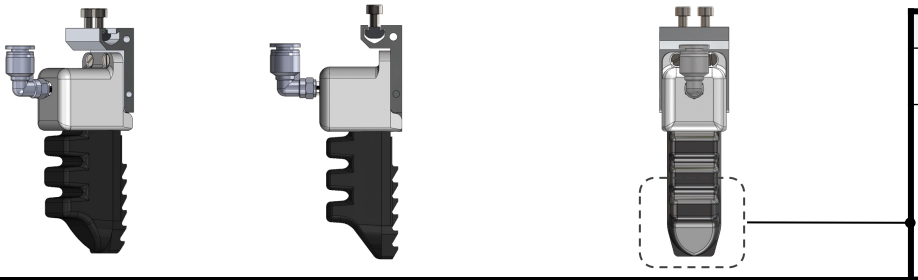
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

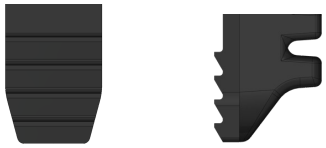
PK-AV4 Accessory Package (optional)







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

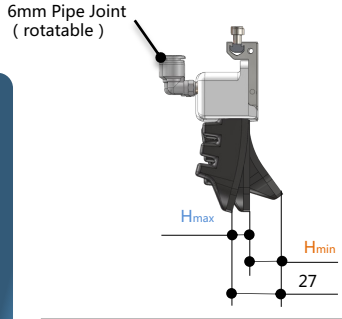


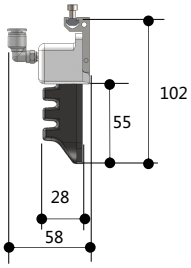
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V5/LS8[P]	FM-A4V5/LS8[PAS]	FM-A4V5/LS8[H]	FM-A4V5/LS8[HAS]

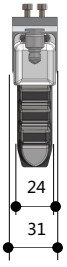
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	83	17	12	⚠ 300	490	83

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



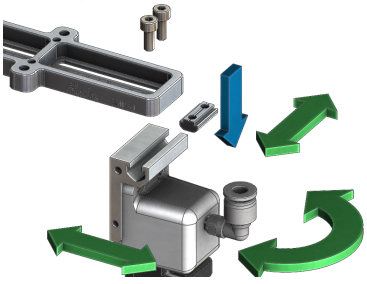




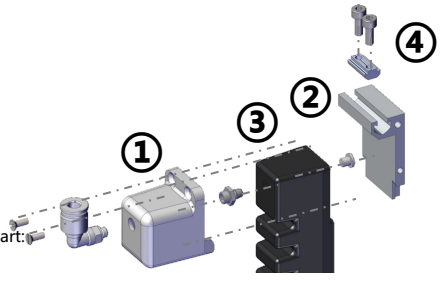
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



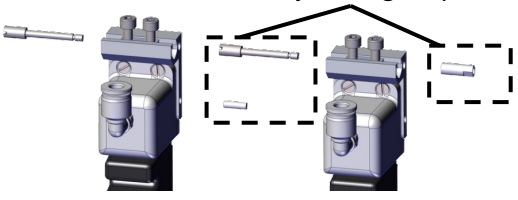
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

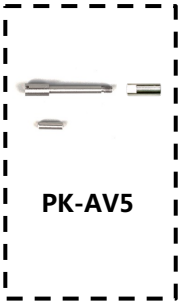
Series combination:

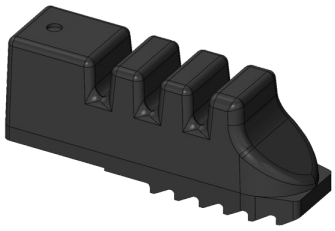
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

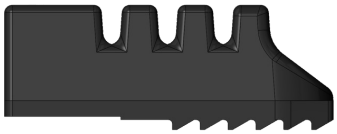
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A4T/LS8[P]	F-A4T/LS8[PAS]	F-A4T/LS8[H]	F-A4T/LS8[HAS]

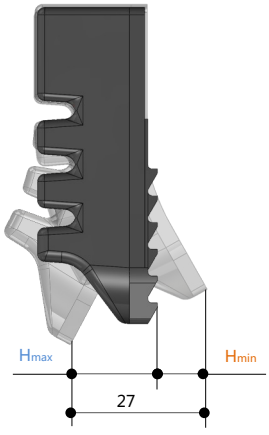
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	40	17	12	⚠ 300	490	40

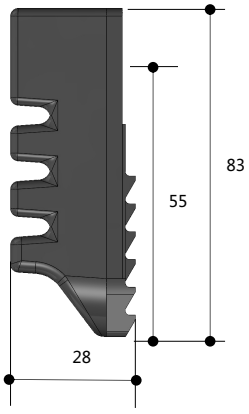
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

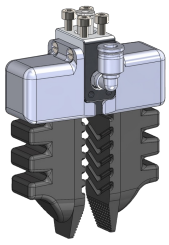
FM

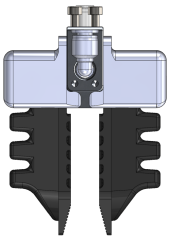
Dimension Parameters

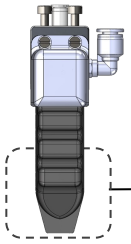




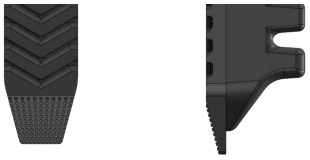








Finger Pattern	
FS3	Suitable for soft fabric products.



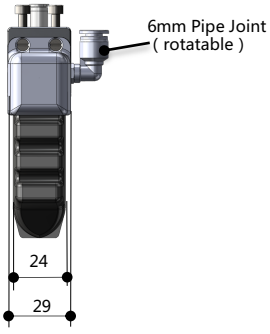
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V1/FS3[P]	FM-A4V1/FS3[PAS]	FM-A4V1/FS3[H]	FM-A4V1/FS3[HAS]

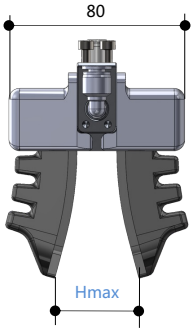
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	38	⚠ 120	680	167	0	42	⚠ 300	980	167

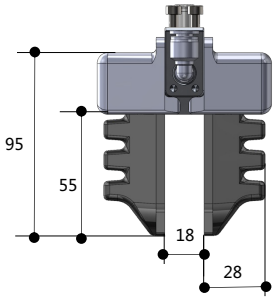
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

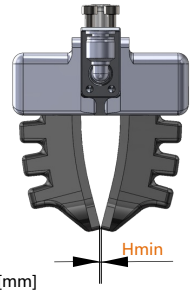
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



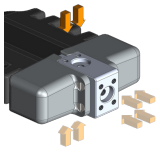


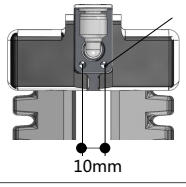


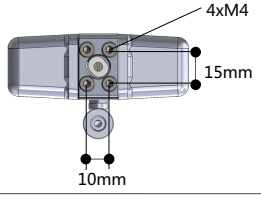


The measuring unit: [mm]

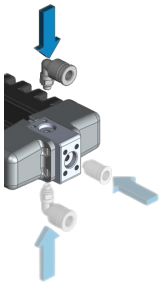
Fixation



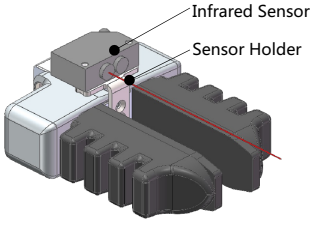




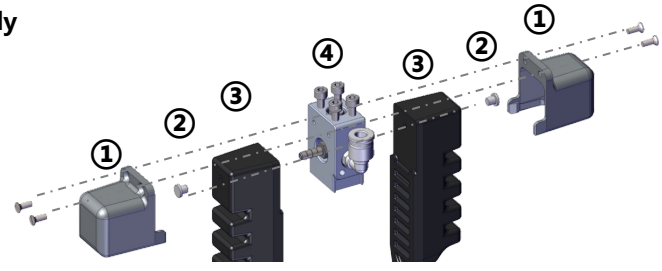
Air Intake



Sensor Installation

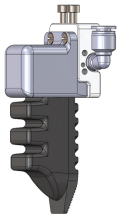
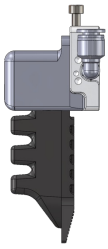
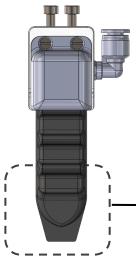


Assembly

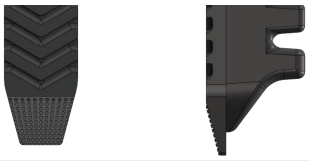


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

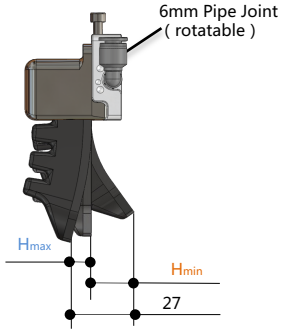


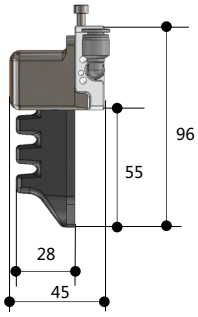
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V2/FS3[P]	FM-A4V2/FS3[PAS]	FM-A4V2/FS3[H]	FM-A4V2/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	99	17	12	⚠ 300	490	99

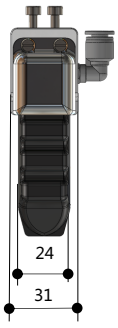
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

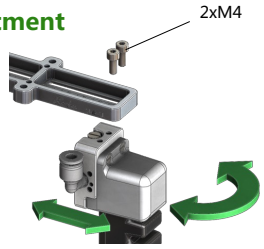




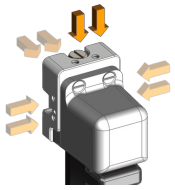
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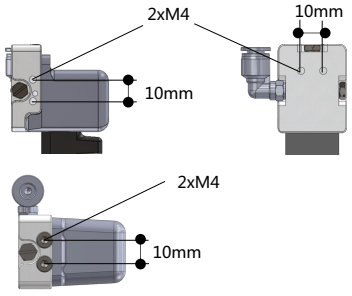


Pose Adjustment

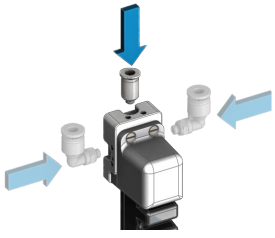


Fixation

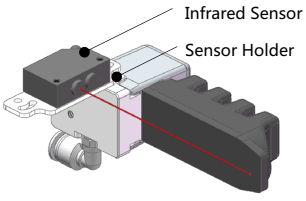




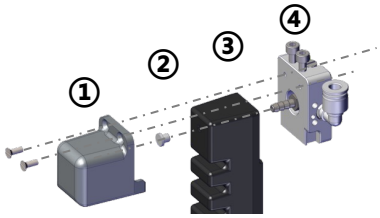
Air Intake



Sensor Installation



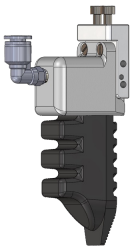
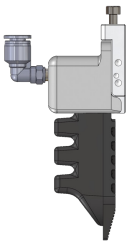
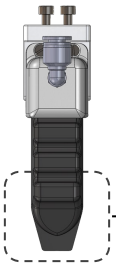
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
FS3	Suitable for soft fabric products.

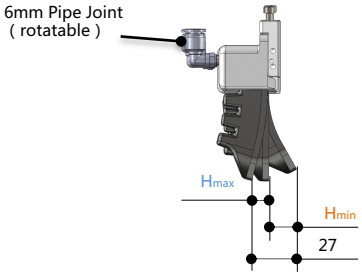


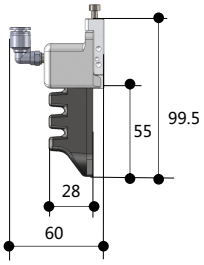

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V3/FS3[P]	FM-A4V3/FS3[PAS]	FM-A4V3/FS3[H]	FM-A4V3/FS3[HAS]

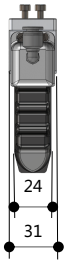
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	84	17	12	⚠ 300	490	84

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



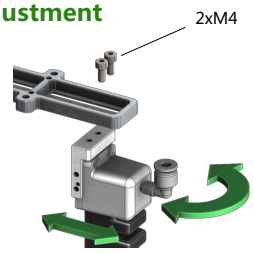




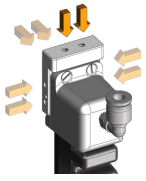
The measuring unit: [mm]

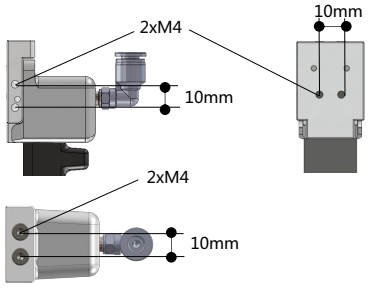
FM

Pose Adjustment



Fixation

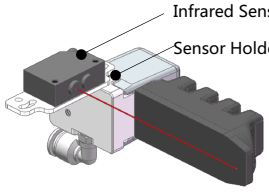




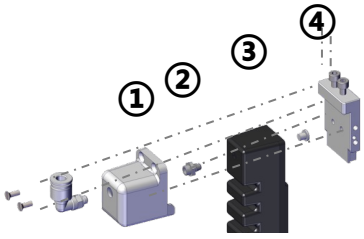
Air Intake



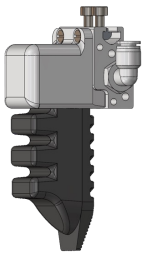
Sensor Installation

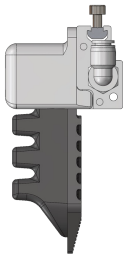


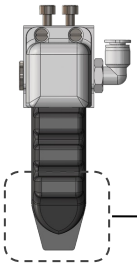
Assembly



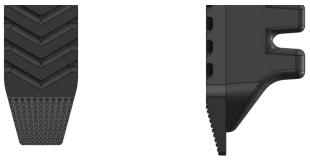
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

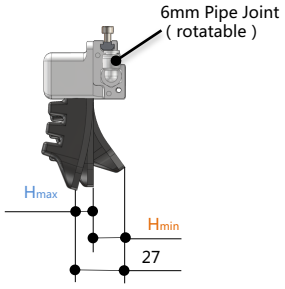


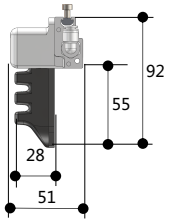
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V4/FS3[P]	FM-A4V4FS3[PAS]	FM-A4V4/FS3[H]	FM-A4V4/FS3[HAS]

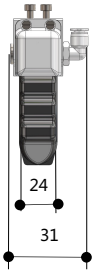
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	104	17	12	⚠300	490	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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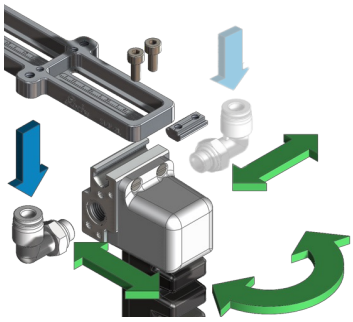




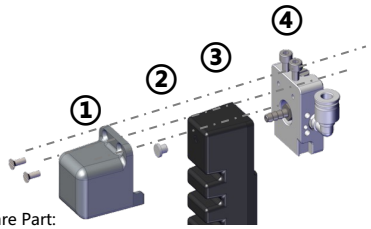
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



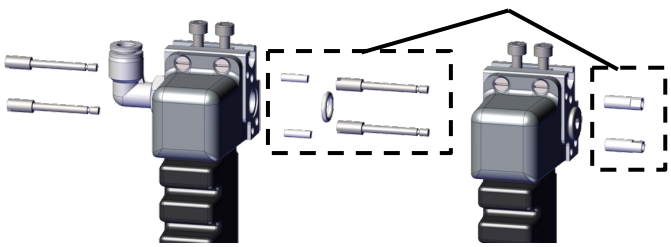
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





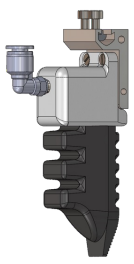
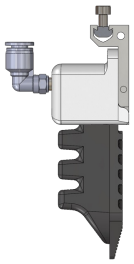
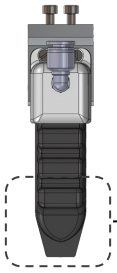
Finger Module

FM -A4V5 / FS3

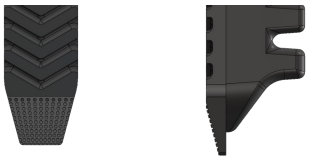
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
FS3	Suitable for soft fabric products.

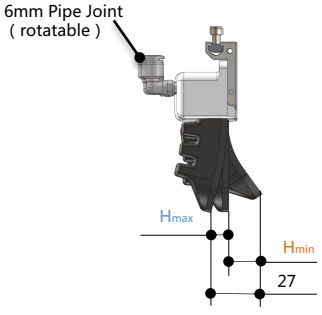


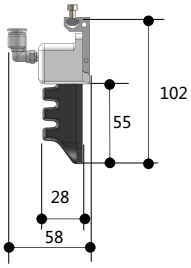
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V5/FS3[P]	FM-A4V5/FS3[PAS]	FM-A4V5/FS3[H]	FM-A4V5/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	83	17	12	⚠ 300	490	83

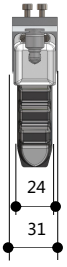
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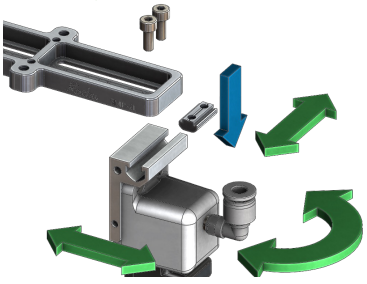


The measuring unit: [mm]

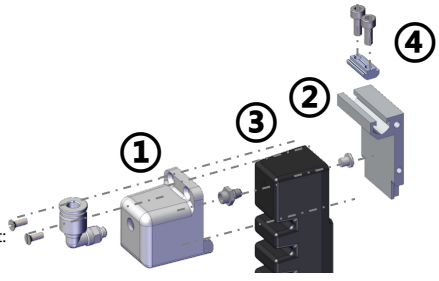


FM

Air Intake & Pose Adjustment



Assembly



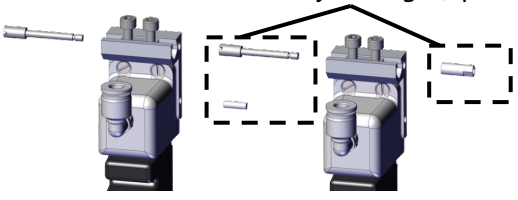
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

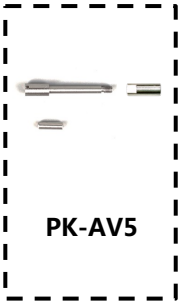
Series combination:

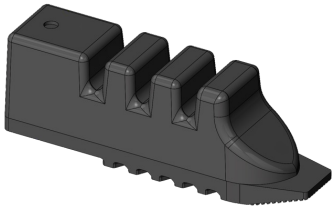
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

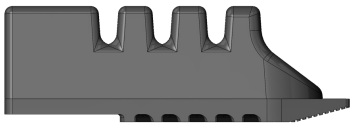
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

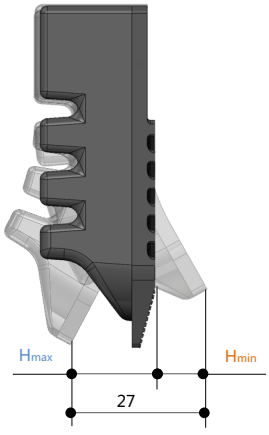
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A4T/FS3[P]	F-A4T/FS3[PAS]	F-A4T/FS3[H]	F-A4T/FS3[HAS]

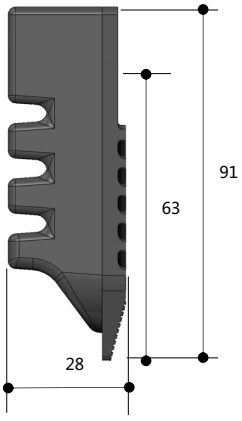
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	40	17	12	⚠300	490	40

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

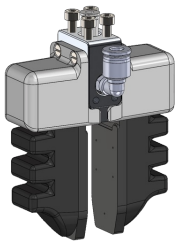
Dimension Parameters

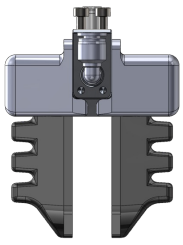


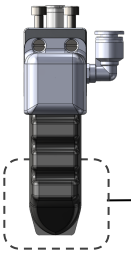




FM







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.



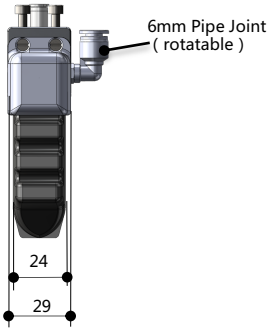
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V1/LF1[P]	FM-A4V1/LF1[PAS]	FM-A4V1/LF1[H]	FM-A4V1/LF1[HAS]

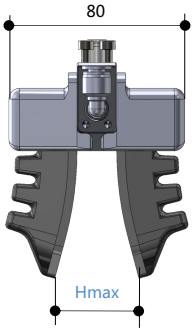
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	38	⚠ 120	680	167	0	42	⚠ 300	980	167

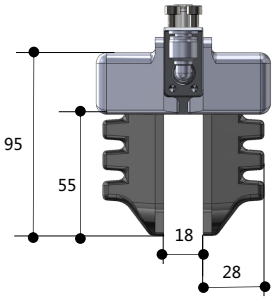
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

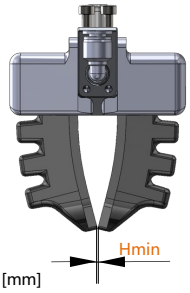
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



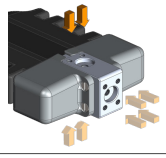


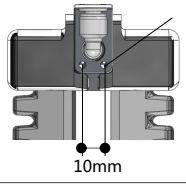


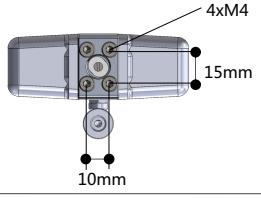


The measuring unit: [mm]

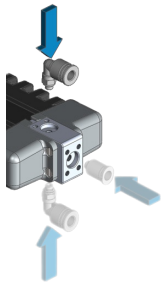
Fixation



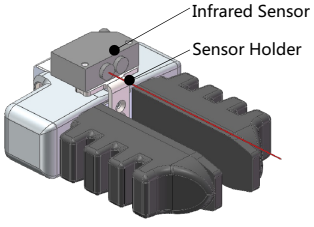




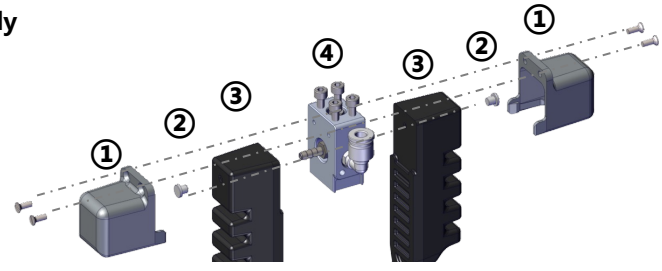
Air Intake



Sensor Installation

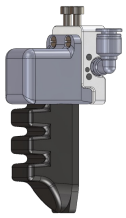
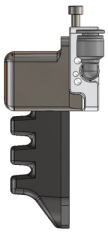
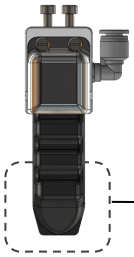


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

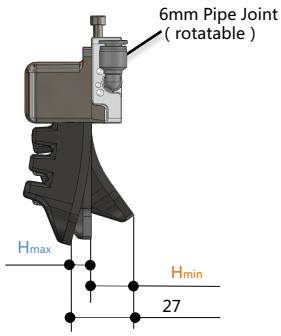


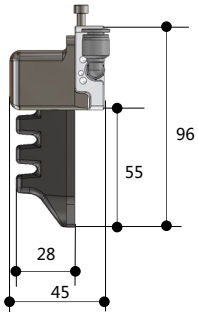

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V2/LF1[P]	FM-A4V2/LF1[PAS]	FM-A4V2/LF1[H]	FM-A4V2/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	99	17	12	⚠ 300	490	99

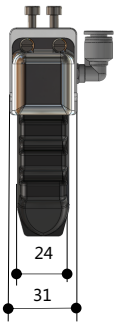
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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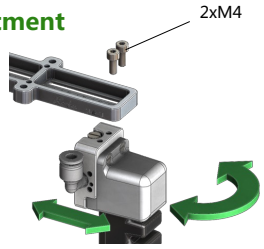




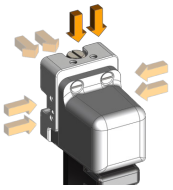
The measuring unit: [mm]

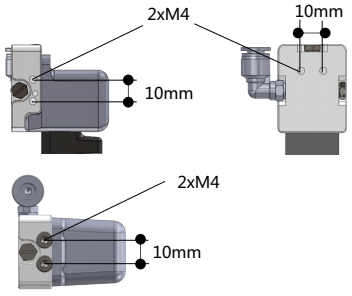


Pose Adjustment

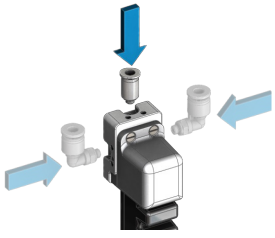


Fixation

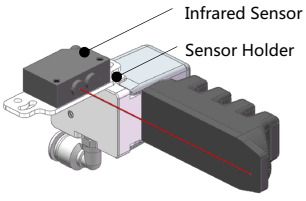




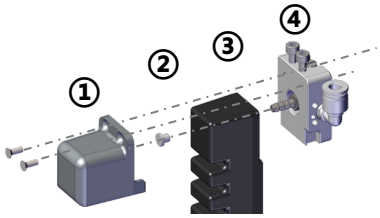
Air Intake



Sensor Installation

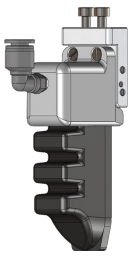
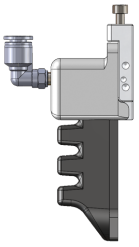
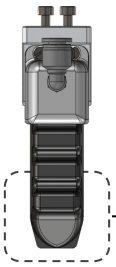


Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

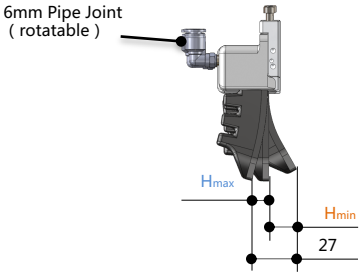


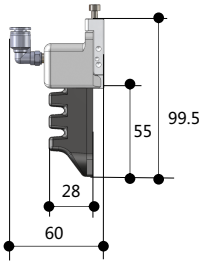

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V3/LF1[P]	FM-A4V3/LF1[PAS]	FM-A4V3/LF1[H]	FM-A4V3/LF1[HAS]

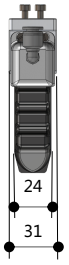
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	84	17	12	⚠ 300	490	84

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



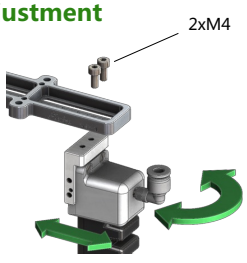




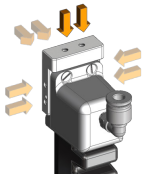
The measuring unit: [mm]

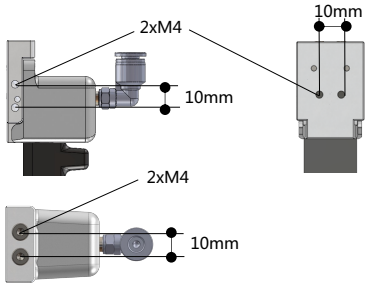
FM

Pose Adjustment



Fixation

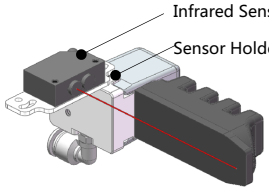




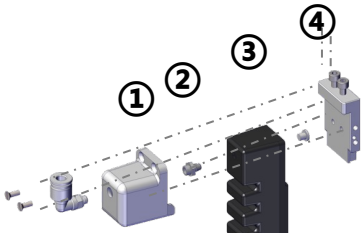
Air Intake



Sensor Installation

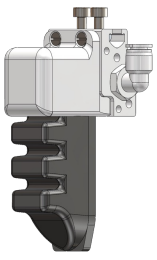


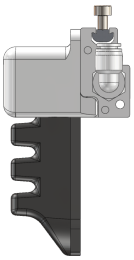
Assembly

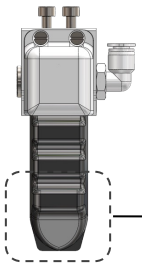


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

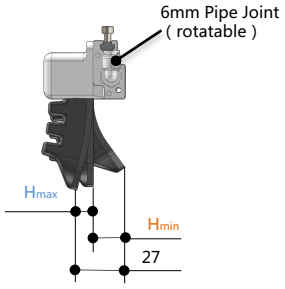


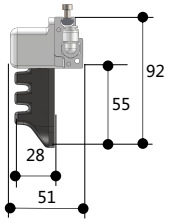
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V4/LF1[P]	FM-A4V4/LF1[PAS]	FM-A4V4/LF1[H]	FM-A4V4/LF1[HAS]

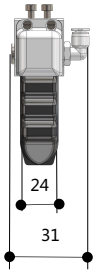
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	104	17	12	⚠300	490	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

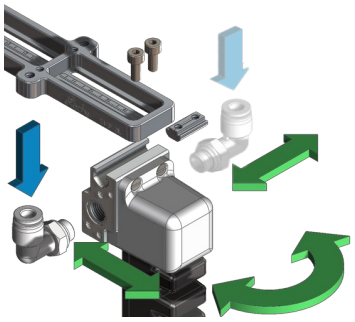




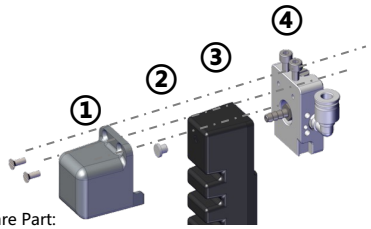


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



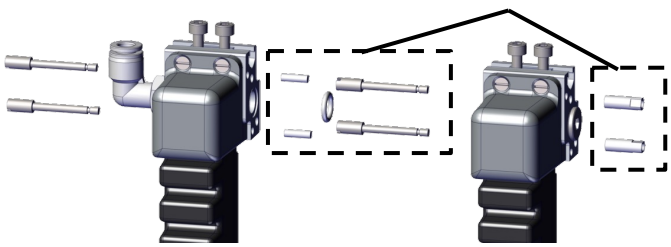
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

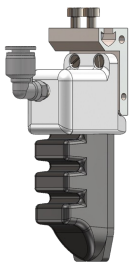
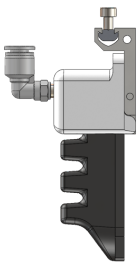
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





FM


Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

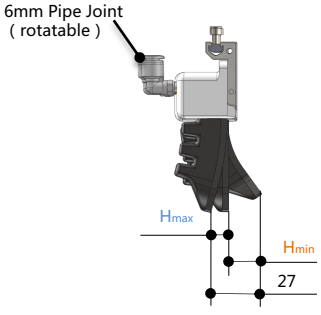


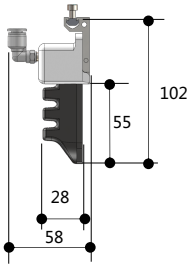
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A4V5/LF1[P]	FM-A4V5/LF1[PAS]	FM-A4V5/LF1[H]	FM-A4V5/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠ 120	340	83	17	12	⚠ 300	490	83

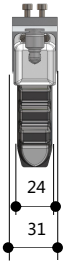
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



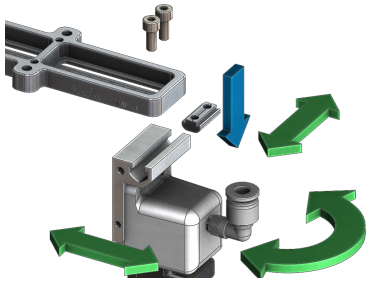


The measuring unit: [mm]

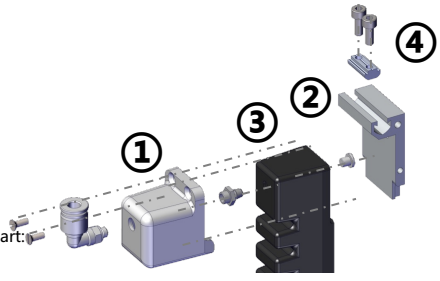


FM

Air Intake & Pose Adjustment



Assembly



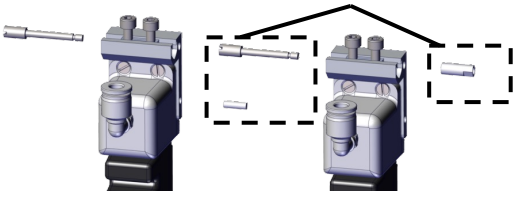
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

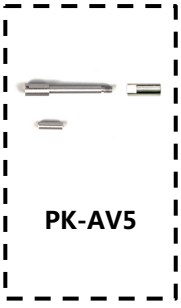
Series combination:

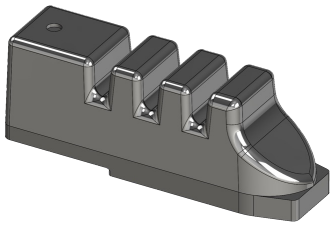
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

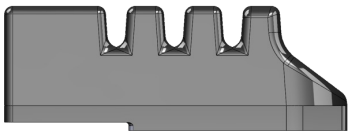
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A4T/LF1[P]	F-A4T/LF1[PAS]	F-A4T/LF1[H]	F-A4T/LF1[HAS]

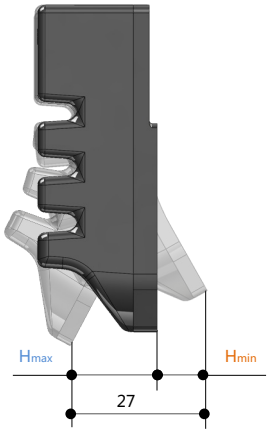
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
17	10	⚠120	340	40	17	12	⚠300	490	40

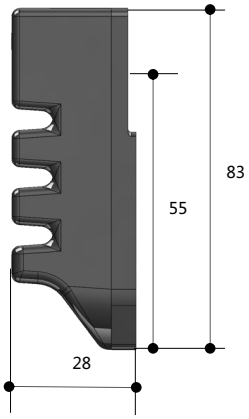
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

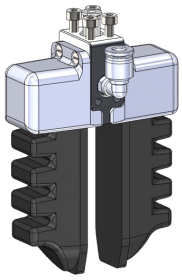
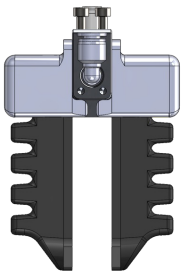
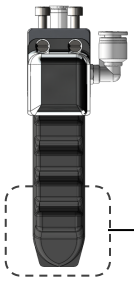
FM

Dimension Parameters







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

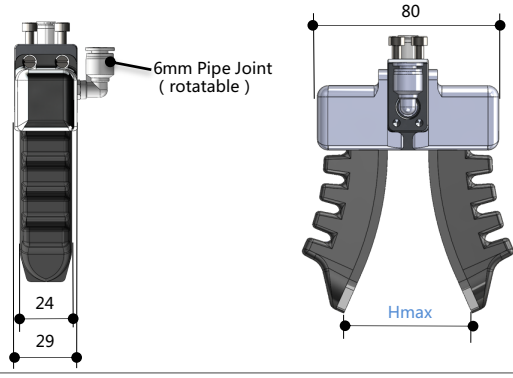


Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V1/LS1[P]	FM-A5V1/LS1[PAS]	FM-A5V1/LS1[H]	FM-A5V1/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	56	⚠ 120	560	181	17	12	⚠ 300	800	181

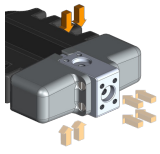
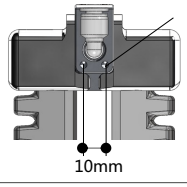
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

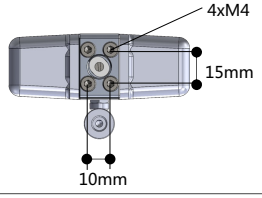
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



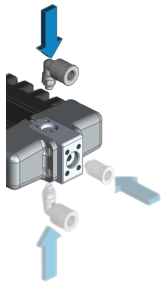
FM

Fixation

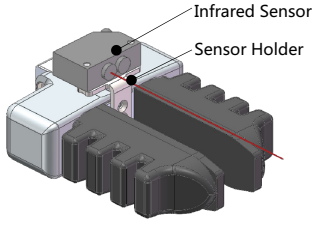





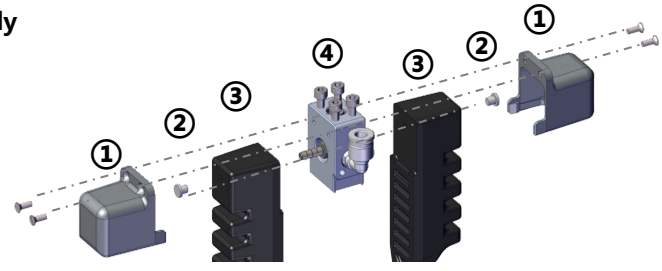
Air Intake



Sensor Installation

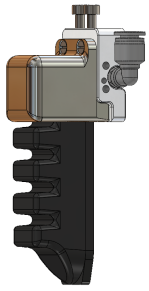
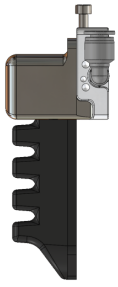
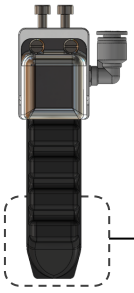


Assembly

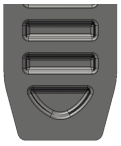


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

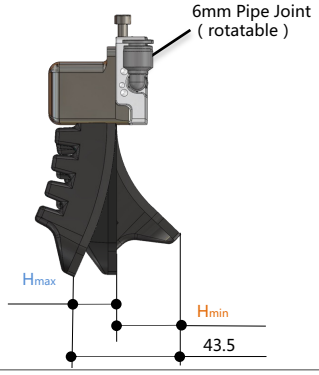


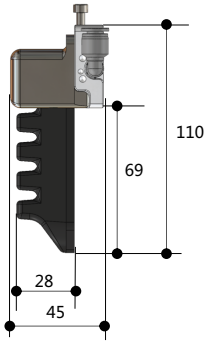

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V2/LS1[P]	FM-A5V2/LS1[PAS]	FM-A5V2/LS1[H]	FM-A5V2/LS1[HAS]

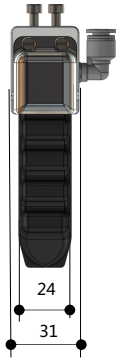
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	106	24.5	16	⚠ 300	400	106

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



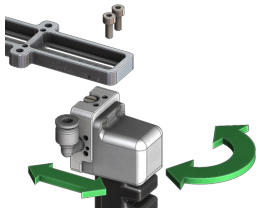




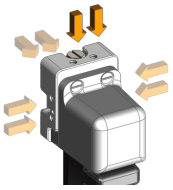
The measuring unit: [mm]

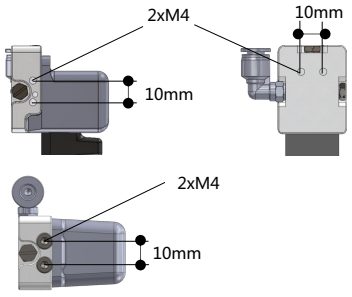
FM

Pose Adjustment

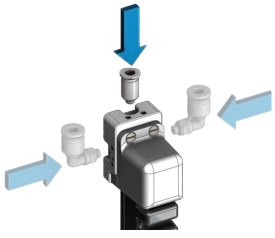


Fixation

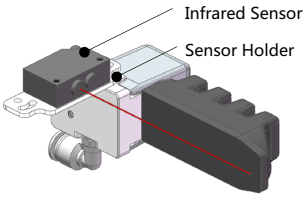




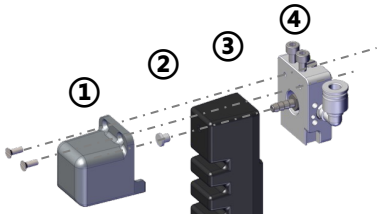
Air Intake



Sensor Installation

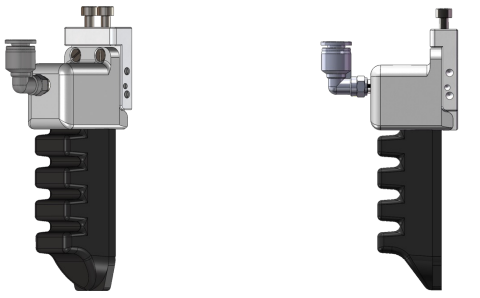


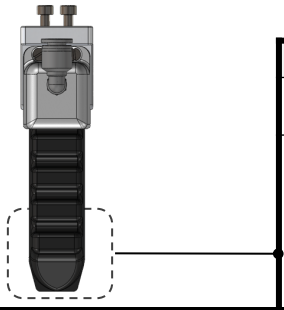
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

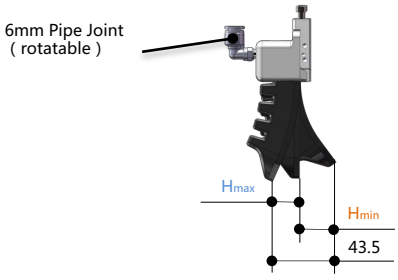


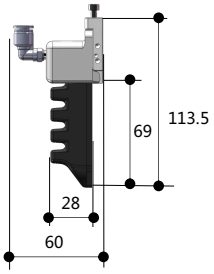
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V3/LS1[P]	FM-A5V3/LS1[PAS]	FM-A5V3/LS1[H]	FM-A5V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	280	91	24.5	16	⚠ 300	400	91

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



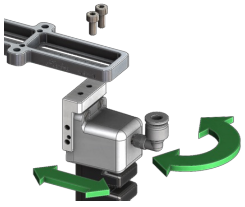




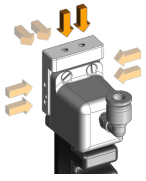
The measuring unit: [mm]

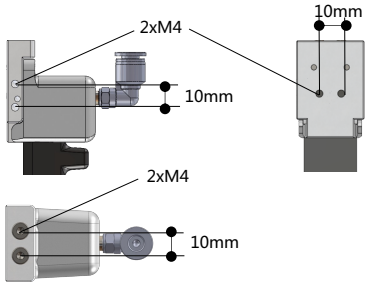
FM

Pose Adjustment



Fixation

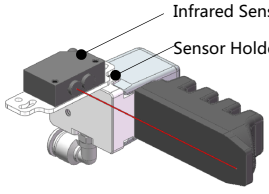




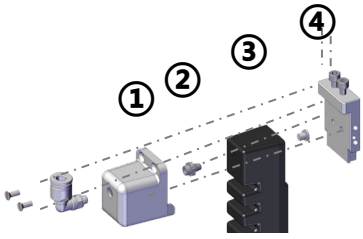
Air Intake



Sensor Installation

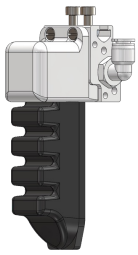
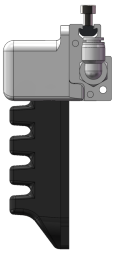
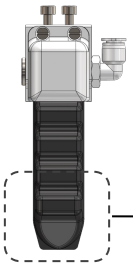


Assembly

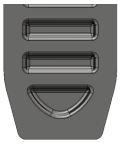


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

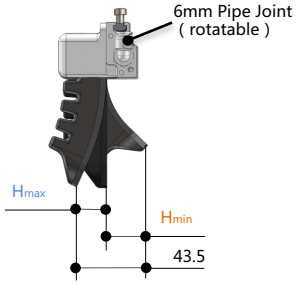


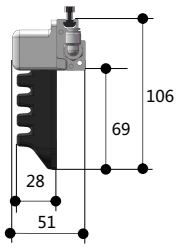

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V4/LS1[P]	FM-A5V4/LS1[PAS]	FM-A5V4/LS1[H]	FM-A5V4/LS1[HAS]

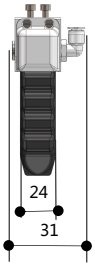
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	111	24.5	16	⚠ 300	400	111

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



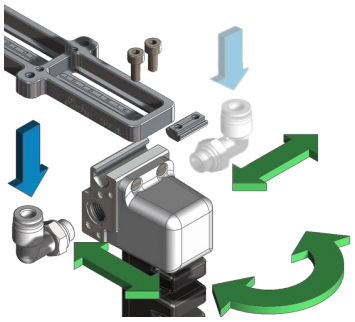




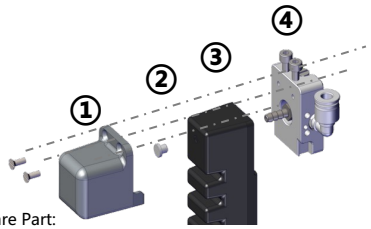
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



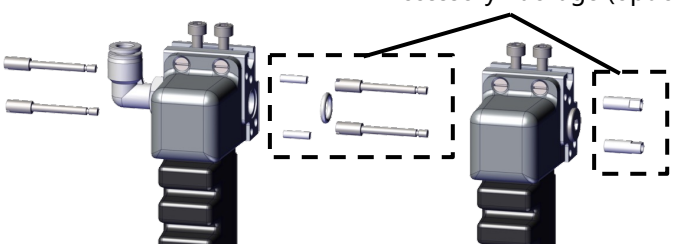
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

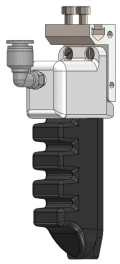
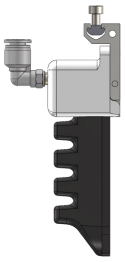
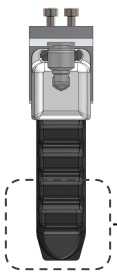
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

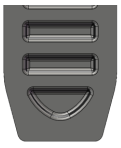
PK-AV4 Accessory Package (optional)





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



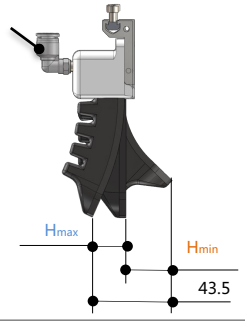

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V5/LS1[P]	FM-A5V5/LS1[PAS]	FM-A5V5/LS1[H]	FM-A5V5/LS1[HAS]

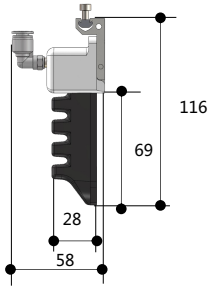
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	90	24.5	16	⚠ 300	400	90

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint
(rotatable)

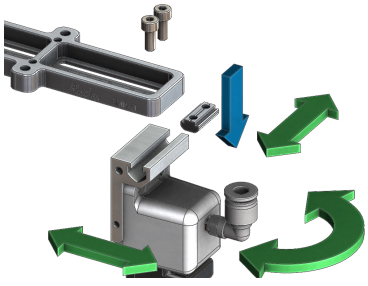




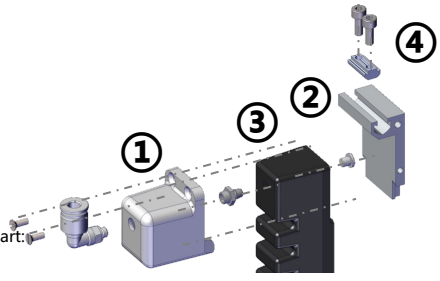
The measuring unit: [mm]



Air Intake & Pose Adjustment



Assembly



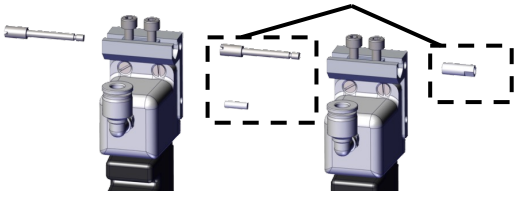
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

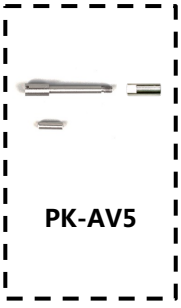
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

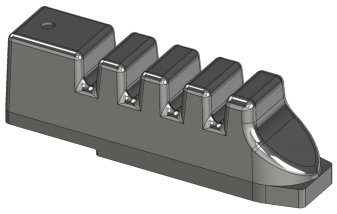
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

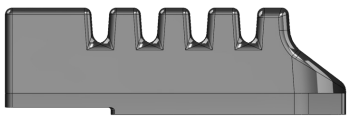
PK-AV5 Accessory Package (optional)





FM







Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

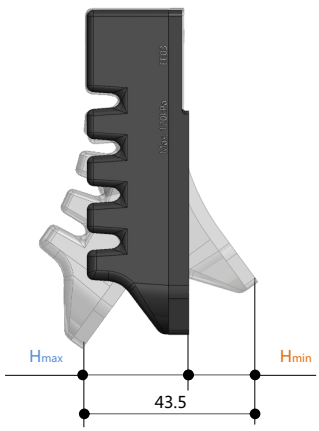
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A5T/LS1[P]	F-A5T/LS1[PAS]	F-A5T/LS1[H]	F-A5T/LS1[HAS]

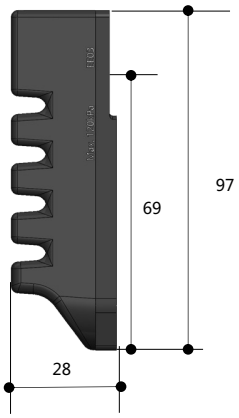
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	280	47	24.5	16	⚠300	400	47

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

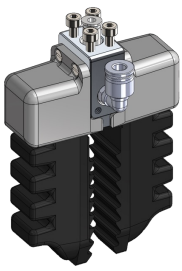
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

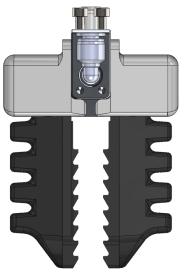
Dimension Parameters

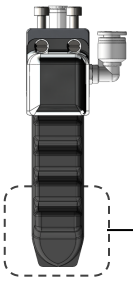




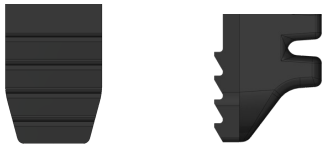








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

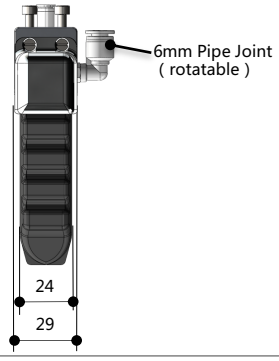


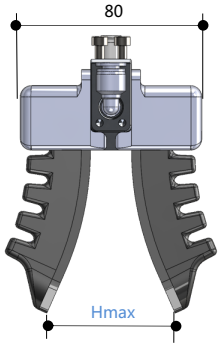
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V1/LS8[P]	FM-A5V1/LS8[PAS]	FM-A5V1/LS8[H]	FM-A5V1/LS8[HAS]

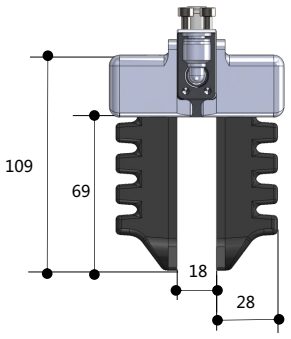
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	56	⚠ 120	560	181	0	50	⚠ 300	800	181

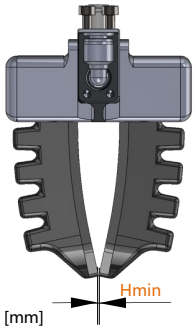
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



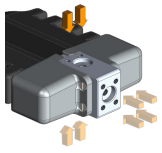


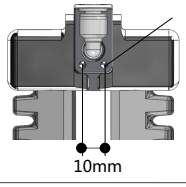


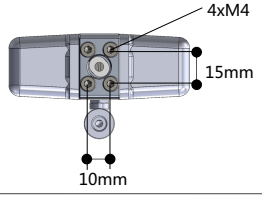


The measuring unit: [mm]

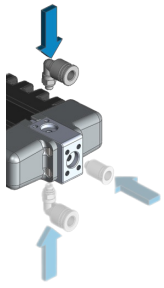
Fixation



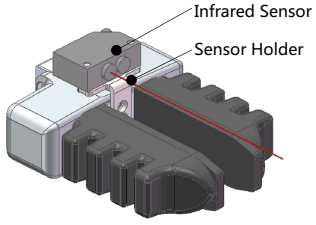




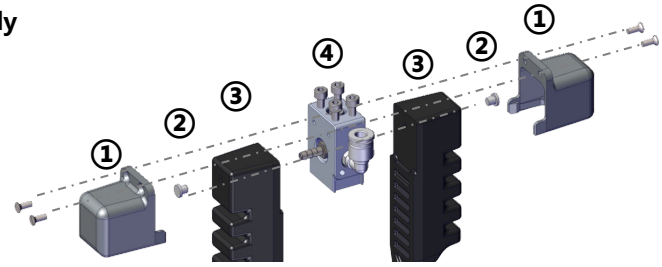
Air Intake



Sensor Installation



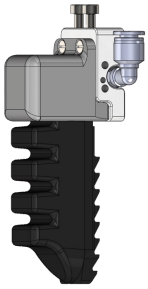
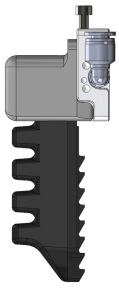
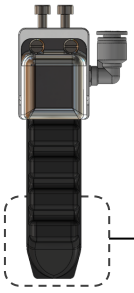
Assembly



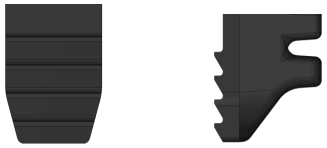
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

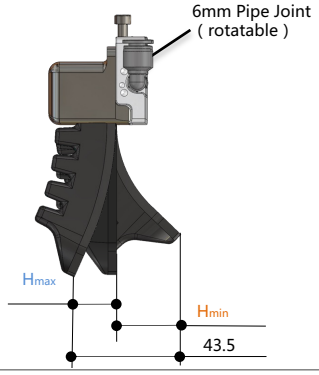


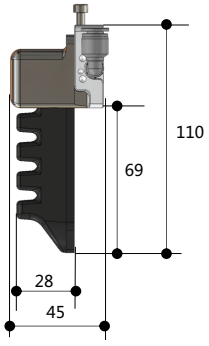
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V2/LS8[P]	FM-A5V2/LS8[PAS]	FM-A5V2/LS8[H]	FM-A5V2/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	106	24.5	16	⚠ 300	400	106

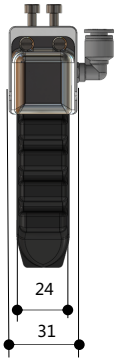
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

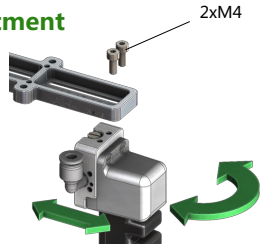




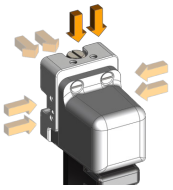
The measuring unit: [mm]

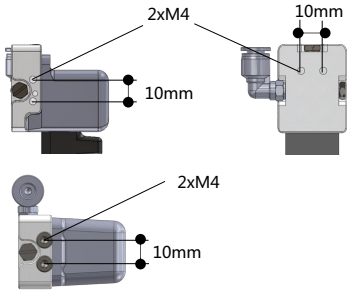


Pose Adjustment

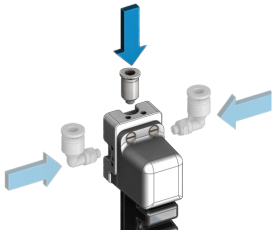


Fixation

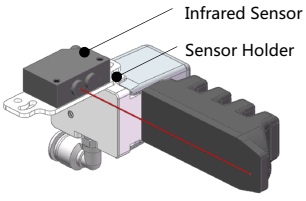




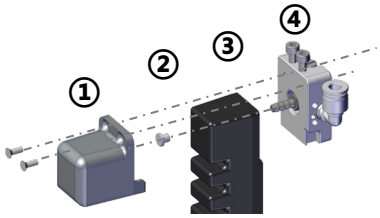
Air Intake



Sensor Installation

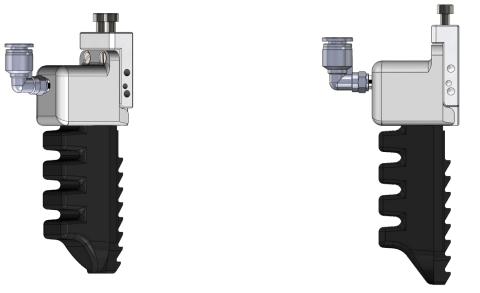


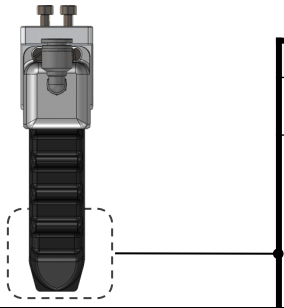
Assembly



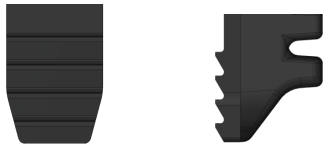
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

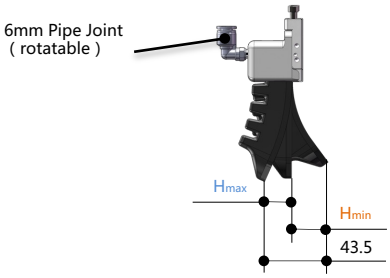


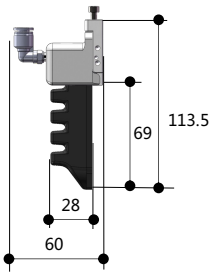
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V3/LS8[P]	FM-A5V3/LS8[PAS]	FM-A5V3/LS8[H]	FM-A5V3/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	280	91	24.5	16	⚠ 300	400	91

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



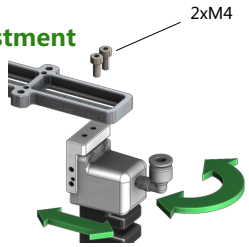




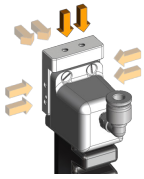
The measuring unit: [mm]

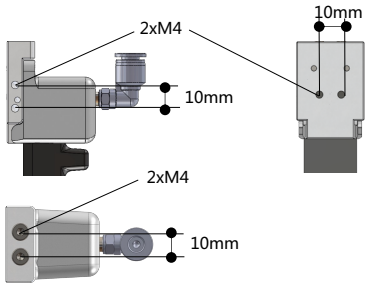
FM

Pose Adjustment



Fixation

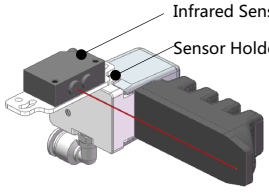




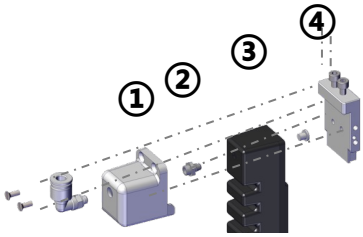
Air Intake



Sensor Installation

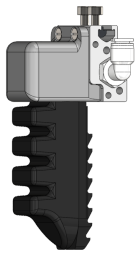
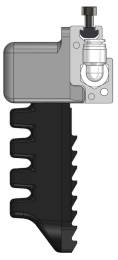
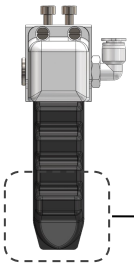


Assembly

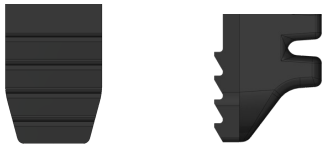


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

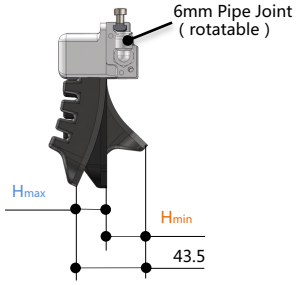


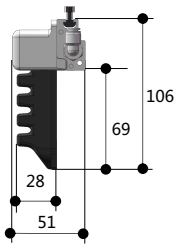
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V4/LS8[P]	FM-A5V4/LS8[PAS]	FM-A5V4/LS8[H]	FM-A5V4/LS8[HAS]

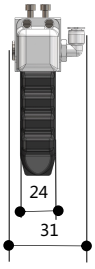
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	280	111	24.5	16	⚠300	400	111

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



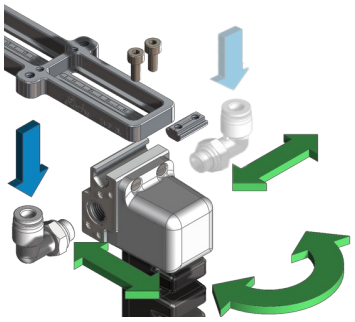




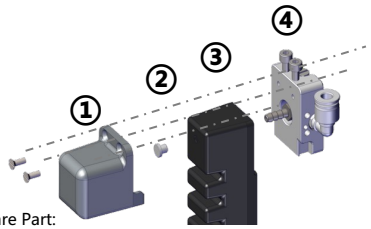
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



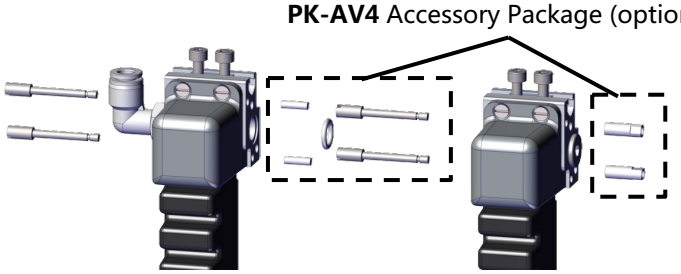
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

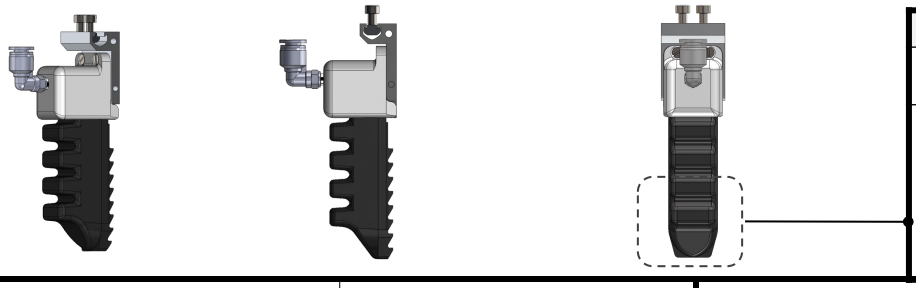
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

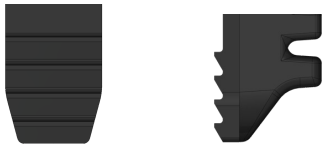
PK-AV4 Accessory Package (optional)







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

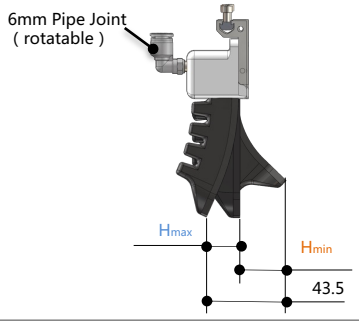


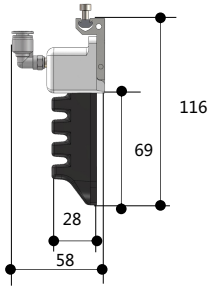
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V5/LS8[P]	FM-A5V5/LS8[PAS]	FM-A5V5/LS8[H]	FM-A5V5/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	90	24.5	16	⚠ 300	400	90

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

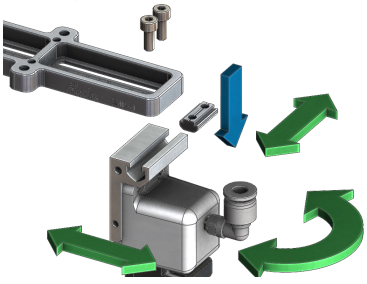




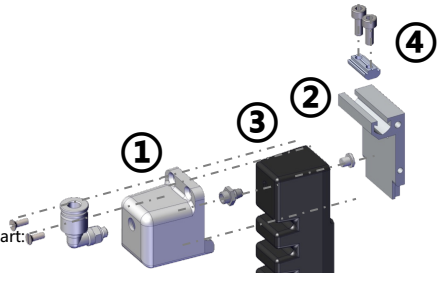
The measuring unit: [mm]



Air Intake & Pose Adjustment



Assembly



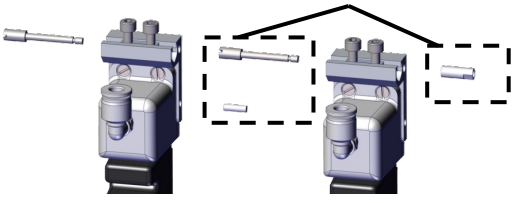
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

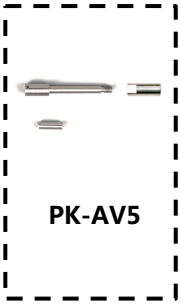
Series combination:

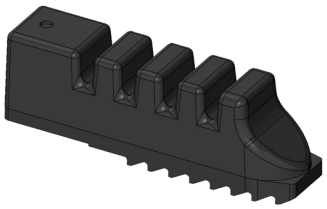
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

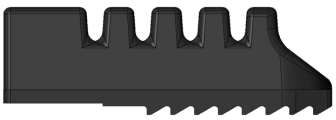
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A5T/LS8[P]	F-A5T/LS8[PAS]	F-A5T/LS8[H]	F-A5T/LS8[HAS]

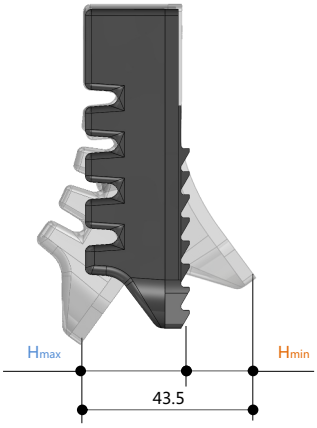
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	47	24.5	16	⚠ 300	400	47

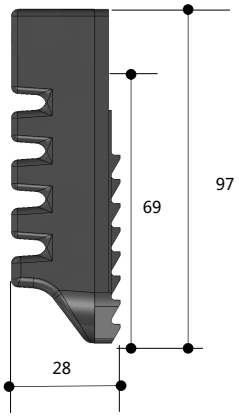
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

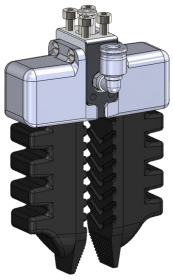
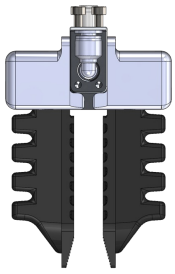
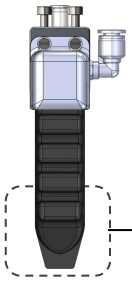
FM

Dimension Parameters

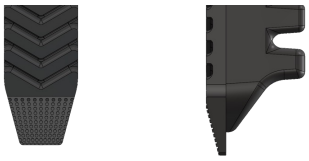






Finger Pattern	
FS3	Suitable for soft fabric products.

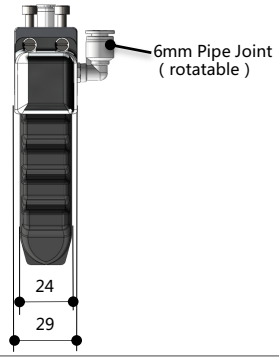


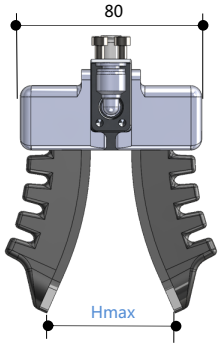
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V1/FS3[P]	FM-A5V1/FS3[PAS]	FM-A5V1/FS3[H]	FM-A5V1/FS3[HAS]

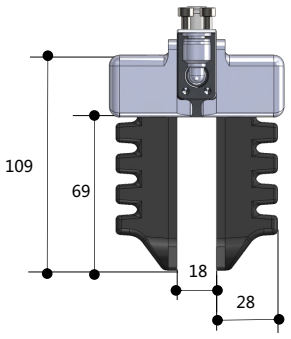
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	56	⚠ 120	560	181	0	50	⚠ 300	400	181

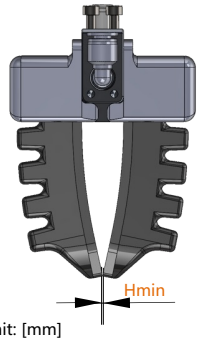
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





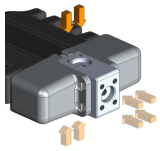


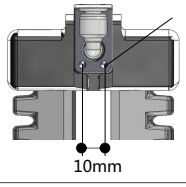


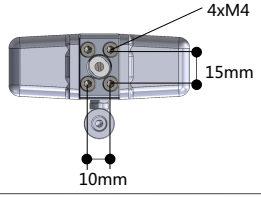
The measuring unit: [mm]

FM

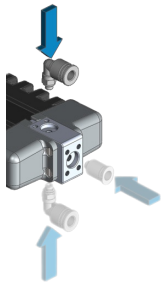
Fixation



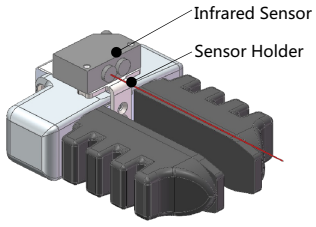




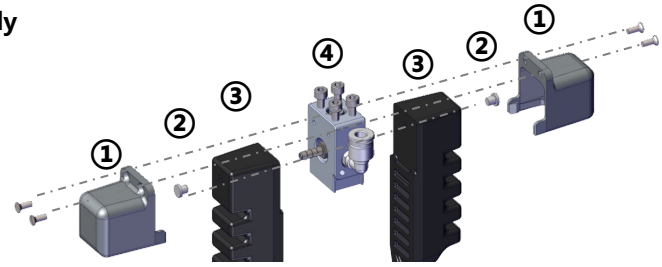
Air Intake



Sensor Installation

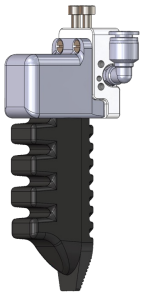
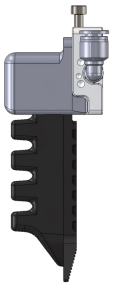
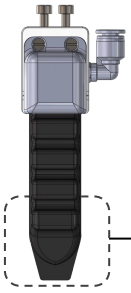


Assembly

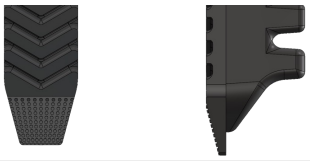


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

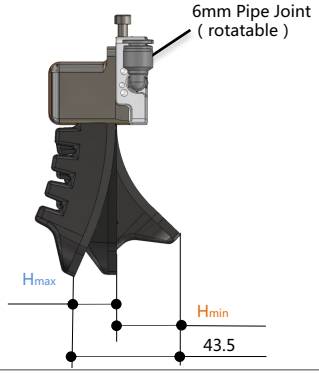


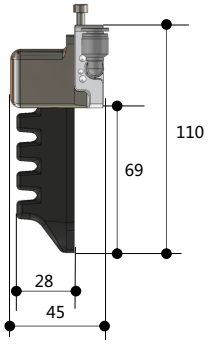
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V2/FS3[P]	FM-A5V2/FS3[PAS]	FM-A5V2/FS3[H]	FM-A5V2/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	560	106	24.5	16	⚠ 300	400	106

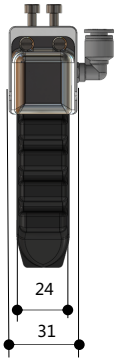
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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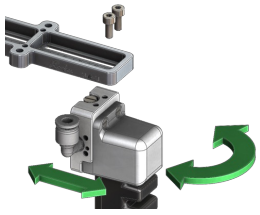


The measuring unit: [mm]

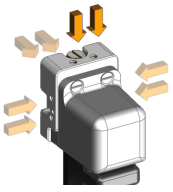


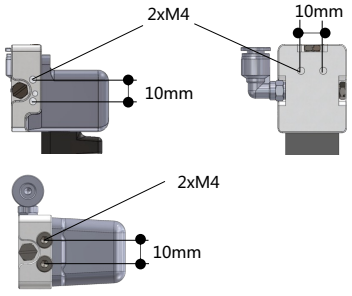
FM

Pose Adjustment

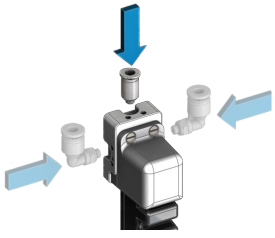


Fixation

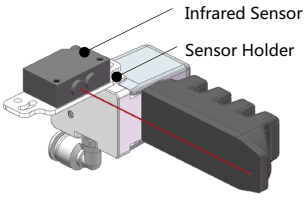




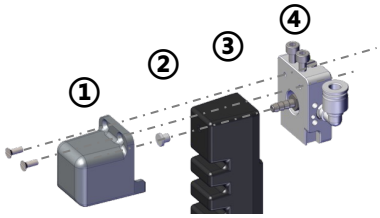
Air Intake



Sensor Installation

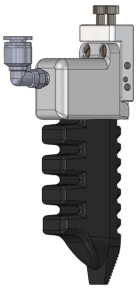
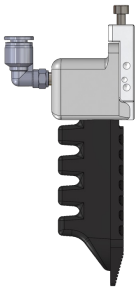
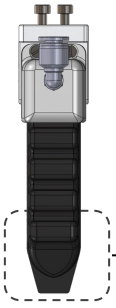


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

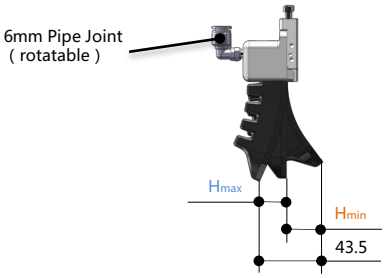


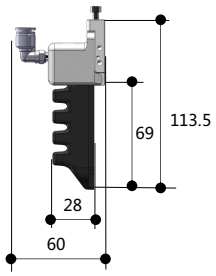

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V3/FS3[P]	FM-A5V3/FS3[PAS]	FM-A5V3/FS3[H]	FM-A5V3/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	560	91	24.5	16	⚠ 300	400	91

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





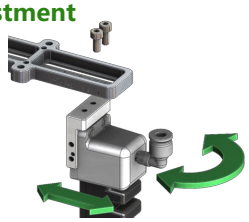


The measuring unit: [mm]

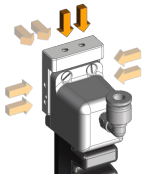
FM

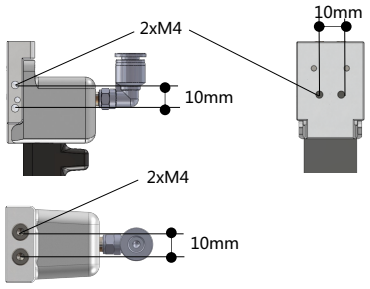
Pose Adjustment

Fixation



Fixation

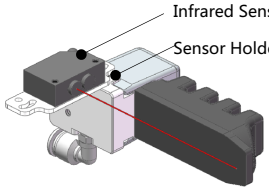




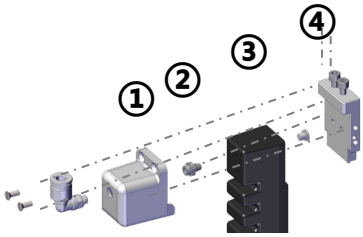
Air Intake



Sensor Installation

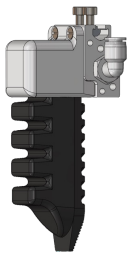
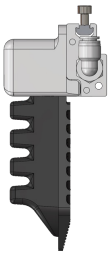
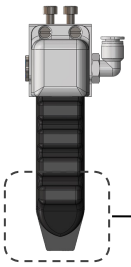


Assembly

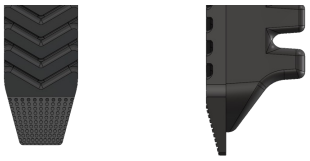


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

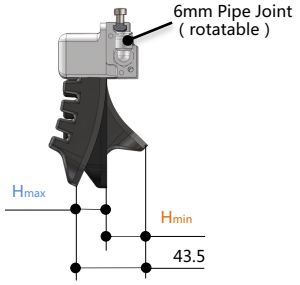


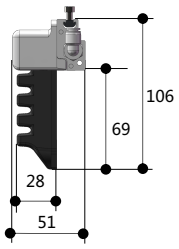
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V4/FS3[P]	FM-A5V4/FS3[PAS]	FM-A5V4/FS3[H]	FM-A5V4/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	560	111	24.5	16	⚠ 300	400	111

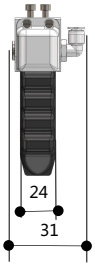
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



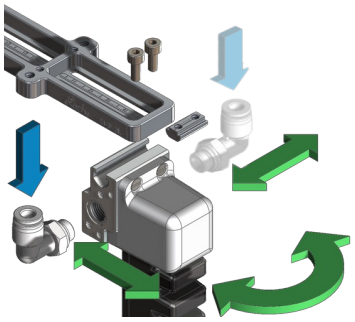


The measuring unit: [mm]

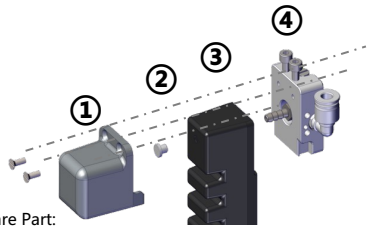


FM

Air Intake & Pose Adjustment



Assembly



Spare Part:

① Shell

② Plug

③ Finger

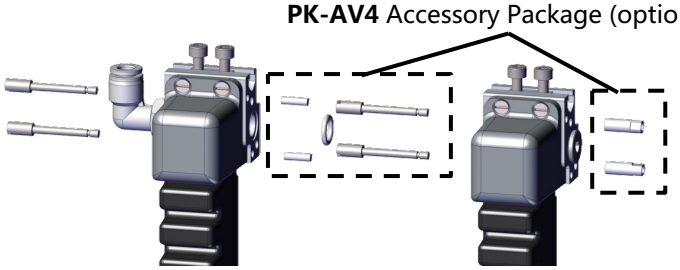
④ Mounting Block

Series combination:

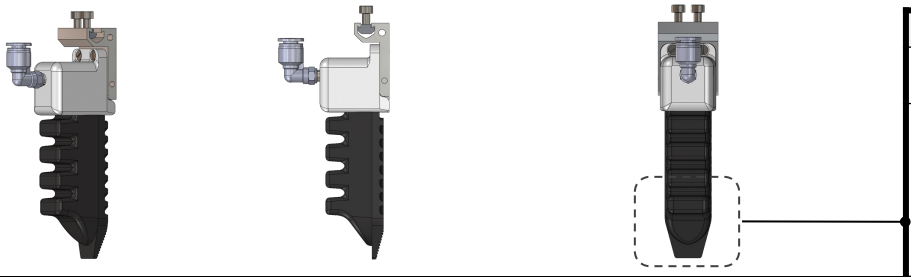
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

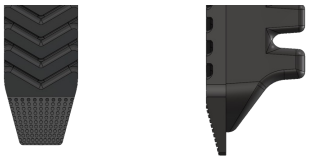
PK-AV4 Accessory Package (optional)







Finger Pattern	
FS3	Suitable for soft fabric products.

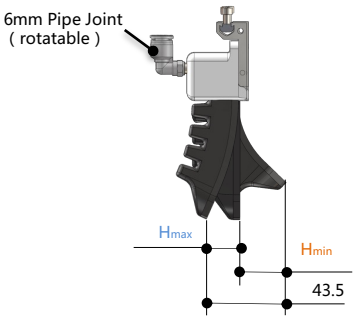


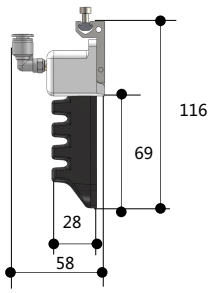
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V5/FS3[P]	FM-A5V5/FS3[PAS]	FM-A5V5/FS3[H]	FM-A5V5/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	560	90	24.5	16	⚠300	400	90

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

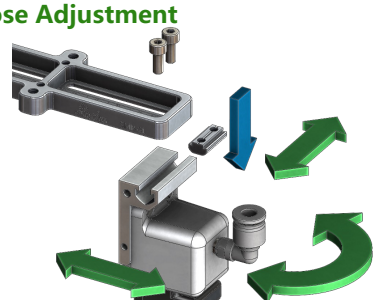




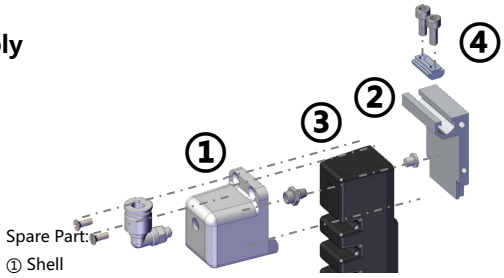


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



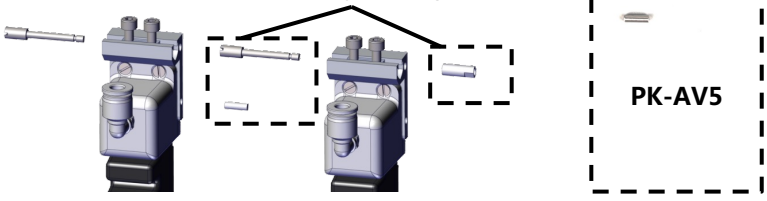
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

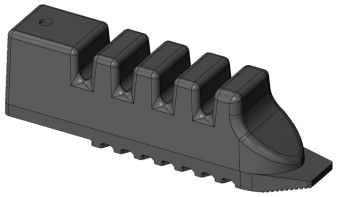
Series combination:

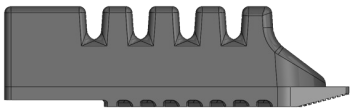
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)









Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A5T/FS3[P]	F-A5T/FS3[PAS]	F-A5T/FS3[H]	F-A5T/FS3[HAS]

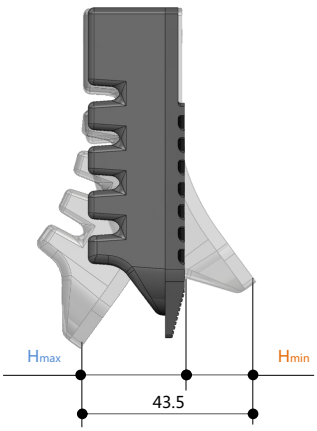
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	47	24.5	16	⚠ 300	400	47

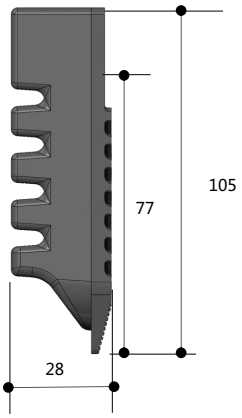
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

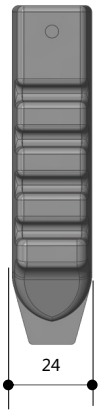
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

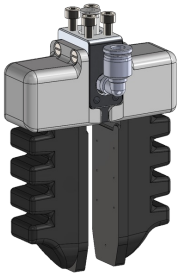
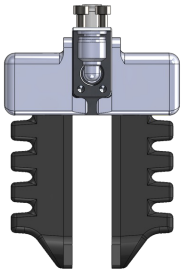
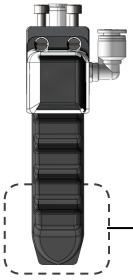
FM

Dimension Parameters







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

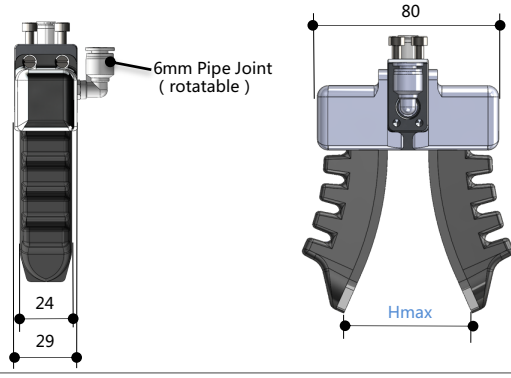


Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V1/LF1[P]	FM-A5V1/LF1[PAS]	FM-A5V1/LF1[H]	FM-A5V1/LF1[HAS]

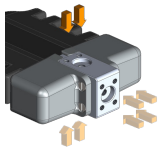
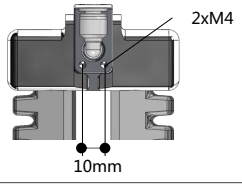
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	56	⚠ 120	560	181	0	50	⚠ 300	800	181

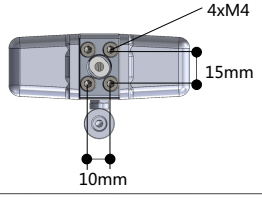
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

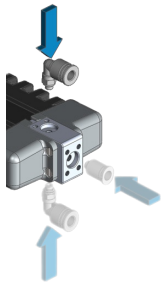


Fixation

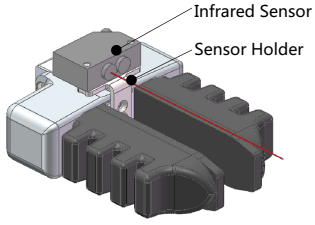





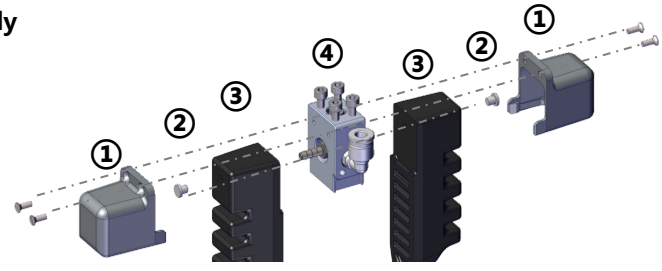
Air Intake



Sensor Installation



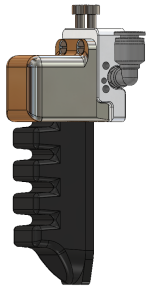
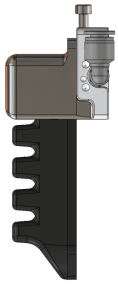
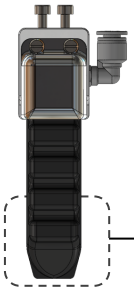
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

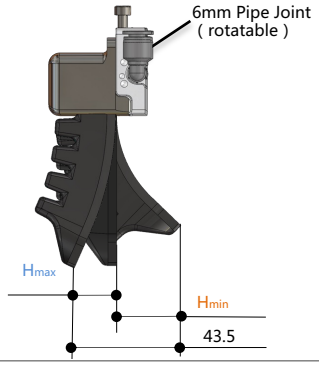


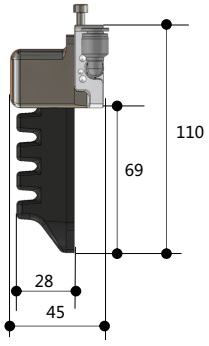
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V2/LF1[P]	FM-A5V2/LF1[PAS]	FM-A5V2/LF1[H]	FM-A5V2/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	106	24.5	16	⚠ 300	400	106

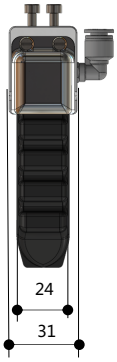
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

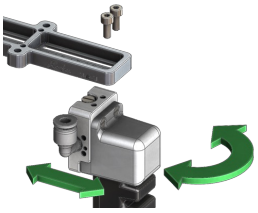




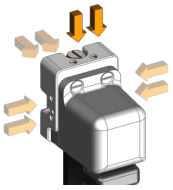
The measuring unit: [mm]

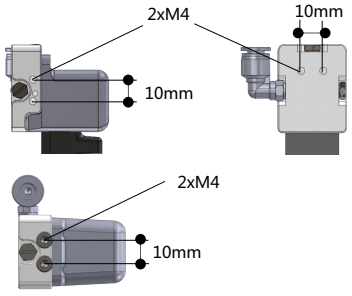


Pose Adjustment

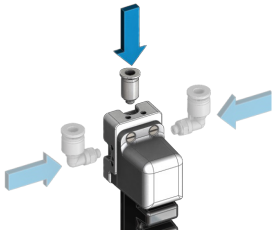


Fixation

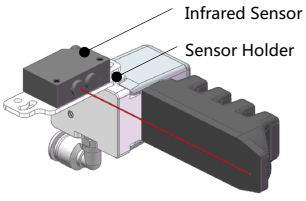




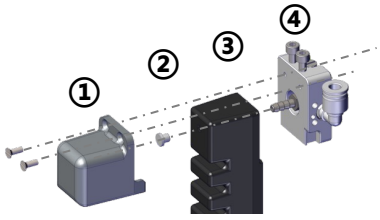
Air Intake



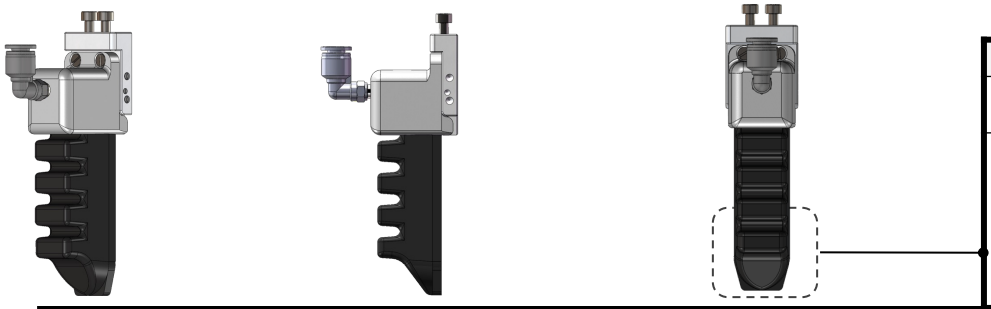
Sensor Installation



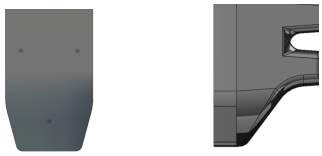
Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block



Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

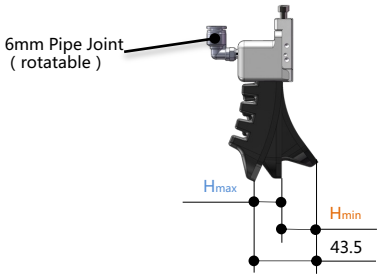


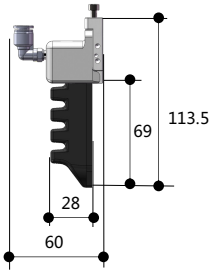
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V3/LF1[P]	FM-A5V3/LF1[PAS]	FM-A5V3/LF1[H]	FM-A5V3/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	280	91	24.5	16	⚠ 300	400	91

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



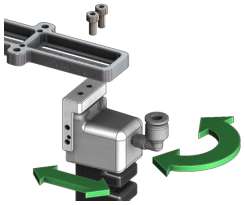




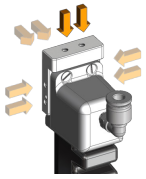
The measuring unit: [mm]

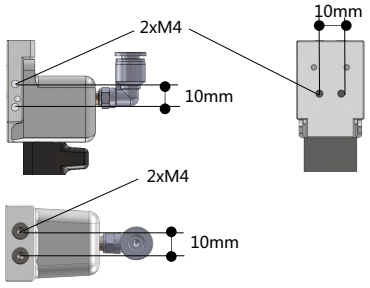
FM

Pose Adjustment



Fixation

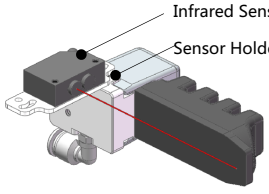




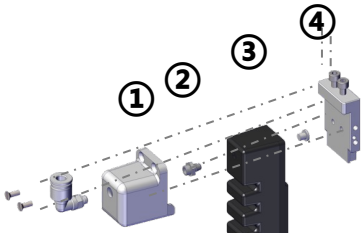
Air Intake



Sensor Installation

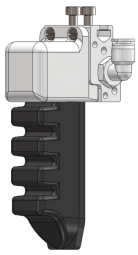
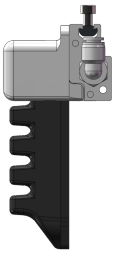
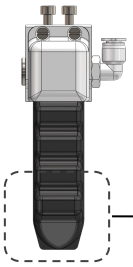


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

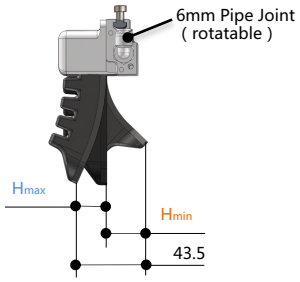


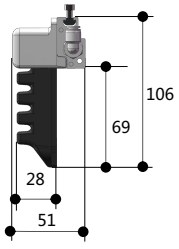
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V4/LF1[P]	FM-A5V4/LF1[PAS]	FM-A5V4/LF1[H]	FM-A5V4/LF1[HAS]

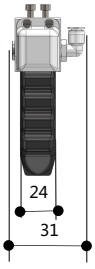
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	111	24.5	16	⚠ 300	400	111

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



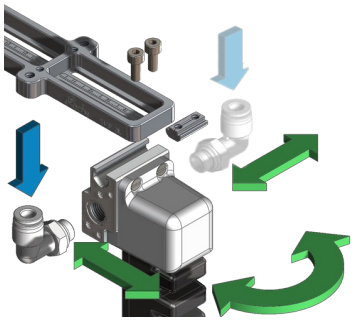




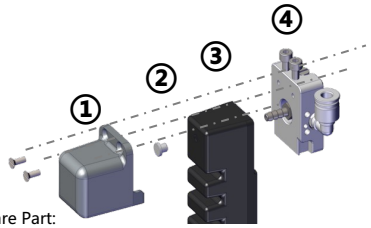
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



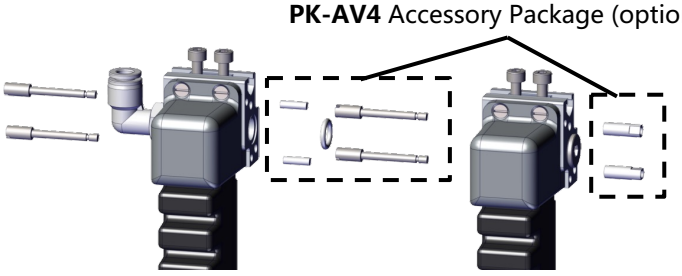
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

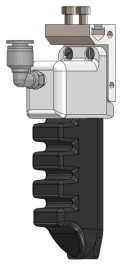
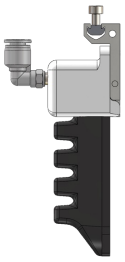
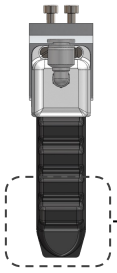
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

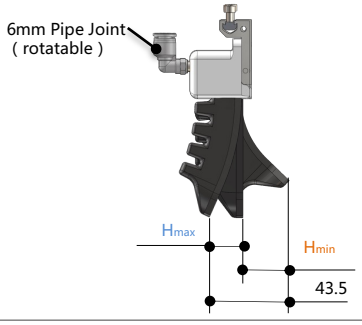


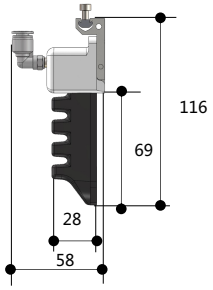
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A5V5/LF1[P]	FM-A5V5/LF1[PAS]	FM-A5V5/LF1[H]	FM-A5V5/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠120	280	90	24.5	16	⚠300	400	90

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

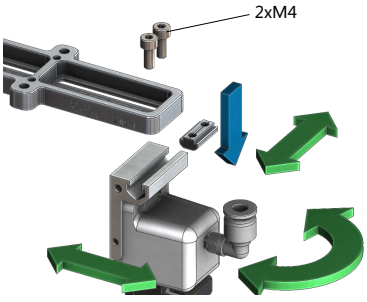




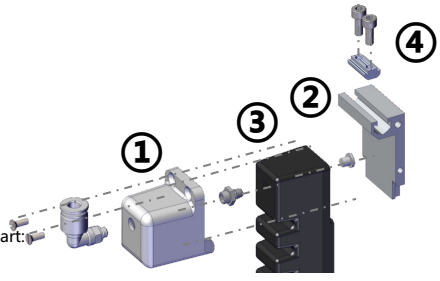
The measuring unit: [mm]



Air Intake & Pose Adjustment



Assembly



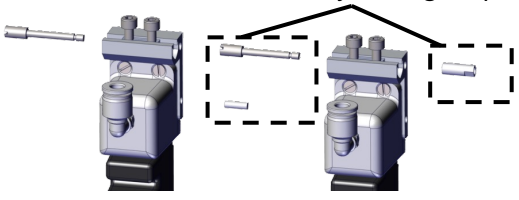
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

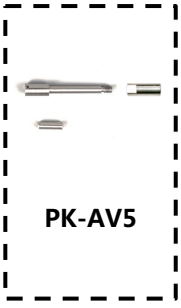
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

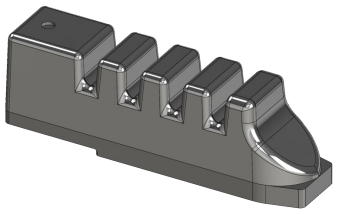
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

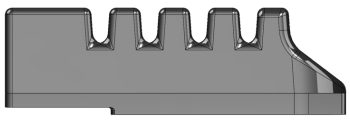
PK-AV5 Accessory Package (optional)

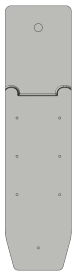




FM







Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A5T/LF1[P]	F-A5T/LF1[PAS]	F-A5T/LF1[H]	F-A5T/LS1[HAS]

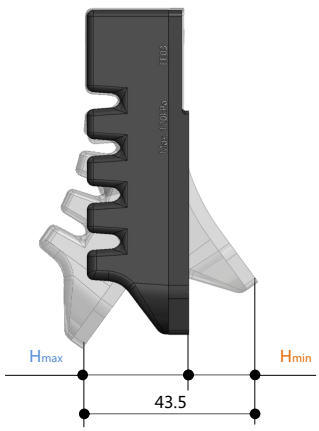
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24.5	19	⚠ 120	280	47	24.5	16	⚠ 300	400	47

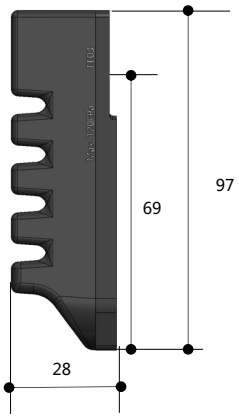
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

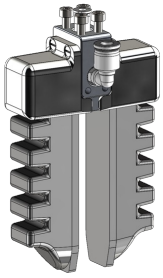
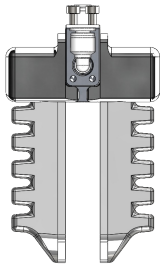
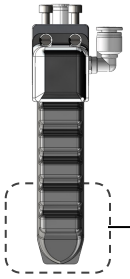
FM

Dimension Parameters

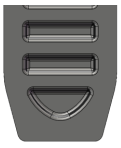






Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



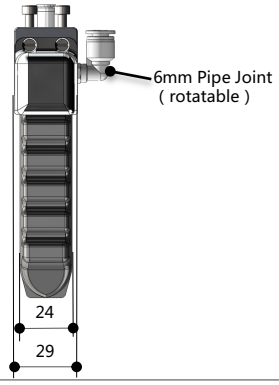

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V1/LS1[P]	FM-A6V1/LS1[PAS]	FM-A6V1/LS1[H]	FM-A6V1/LS1[HAS]

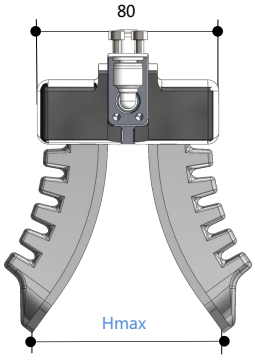
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	84	⚠ 120	460	195	0	62	⚠ 300	830	195

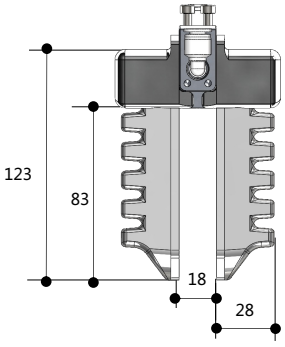
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

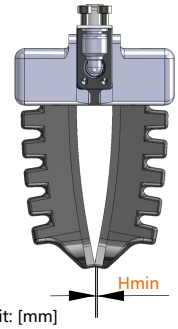
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



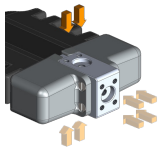


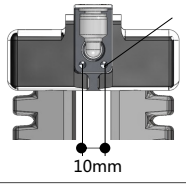


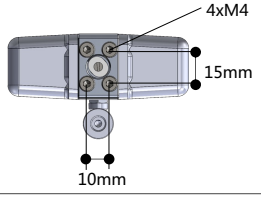


The measuring unit: [mm]

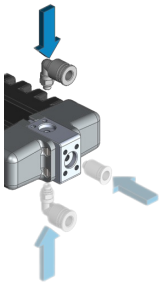
Fixation



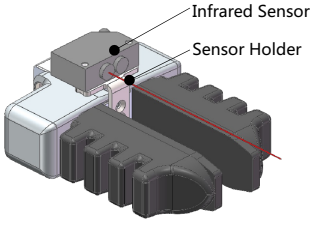




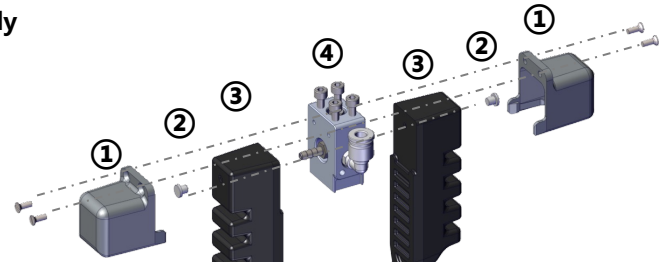
Air Intake



Sensor Installation

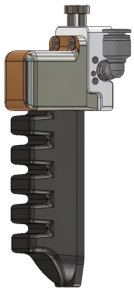
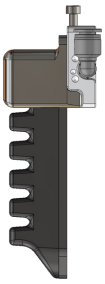
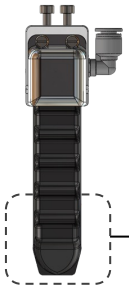


Assembly

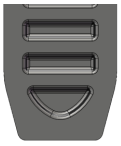


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

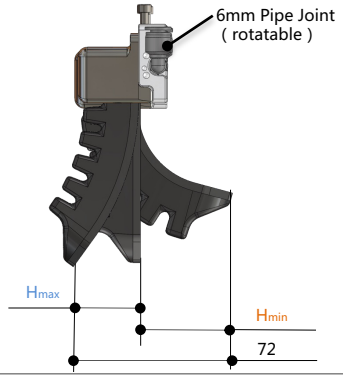


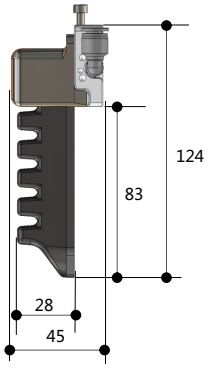

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V2/LS1[P]	FM-A6V2/LS1[PAS]	FM-A6V2/LS1[H]	FM-A6V2/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	113	39	22	⚠ 300	415	113

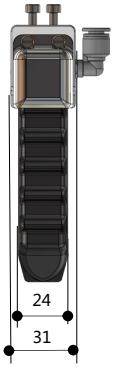
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



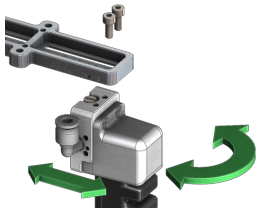


The measuring unit: [mm]

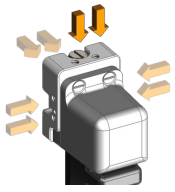


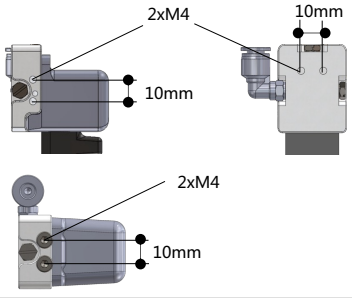
Pose Adjustment

Fixation

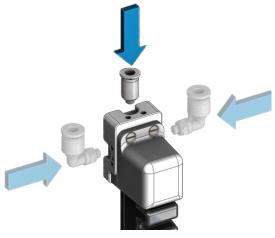


Fixation

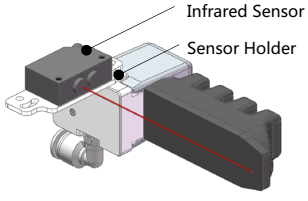




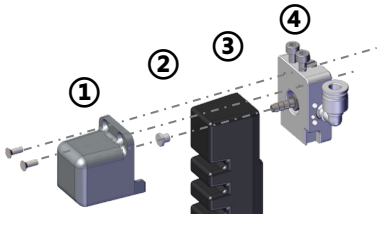
Air Intake



Sensor Installation



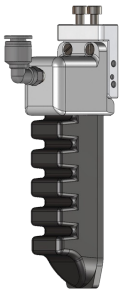
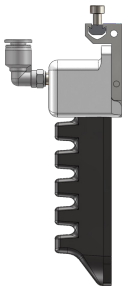
Assembly



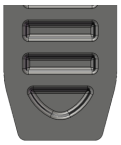
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

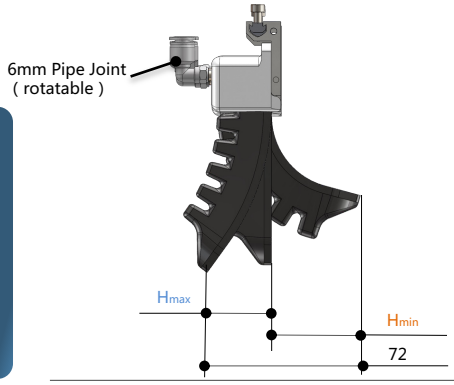


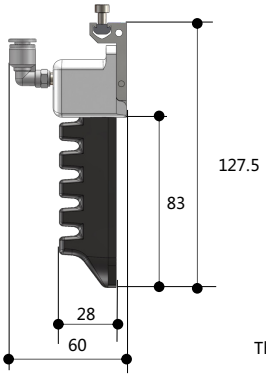

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V3/LS1[P]	FM-A6V3/LS1[PAS]	FM-A6V3/LS1[H]	FM-A6V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	98	39	22	⚠ 300	415	98

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

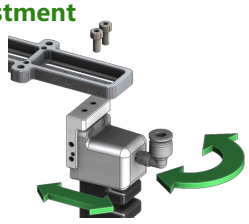




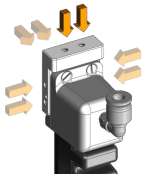
The measuring unit: [mm]

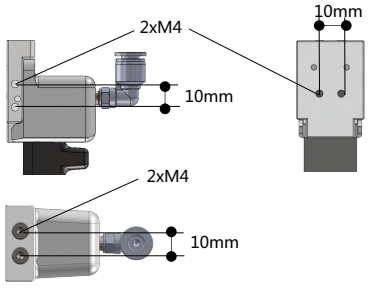


Pose Adjustment



Fixation

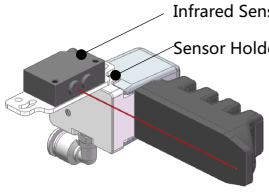




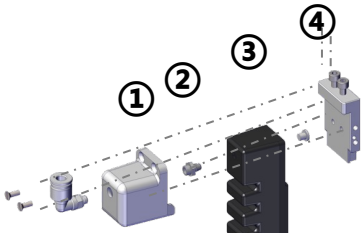
Air Intake



Sensor Installation

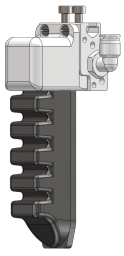
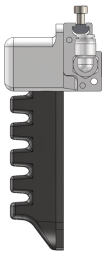
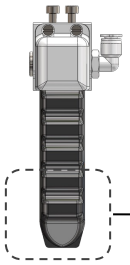


Assembly

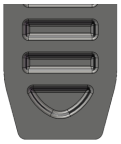


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

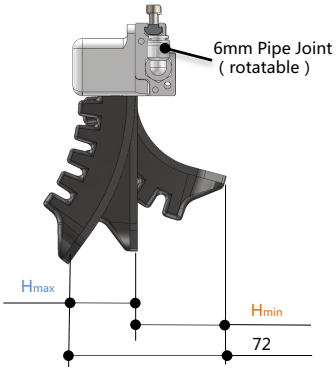


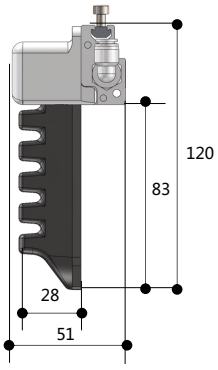

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V4/LS1[P]	FM-A6V4/LS1[PAS]	FM-A6V4/LS1[H]	FM-A6V4/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	119	39	22	⚠ 300	415	119

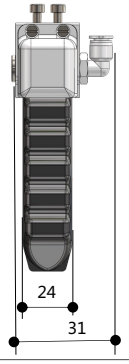
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

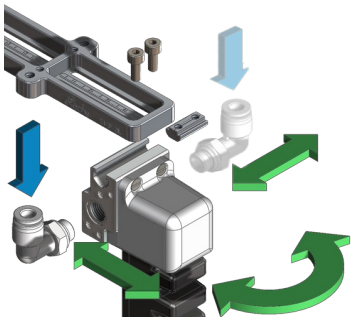




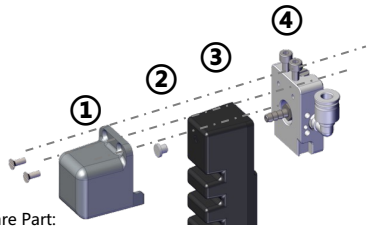
The measuring unit: [mm]



Air Intake & Pose Adjustment



Assembly



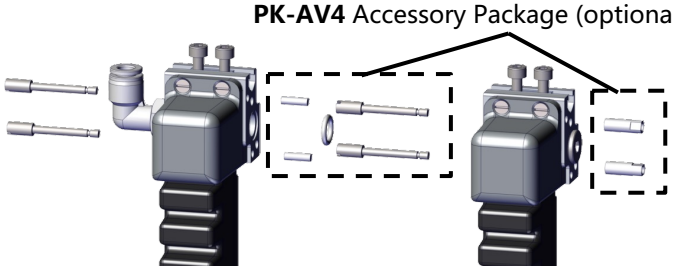
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

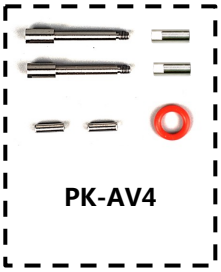
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

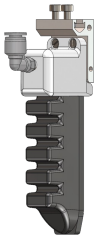
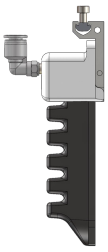
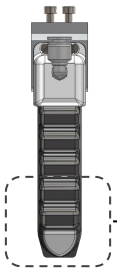
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)

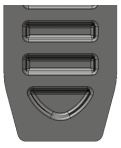




FM

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

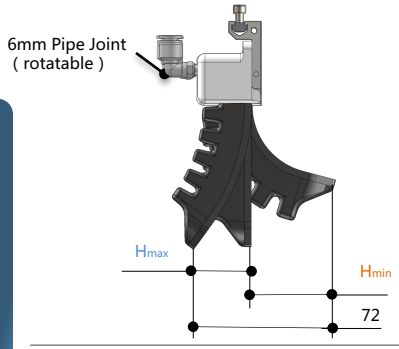


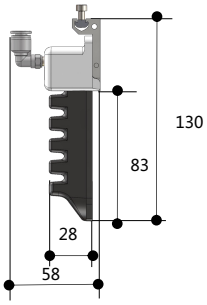

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V5/LS1[P]	FM-A6V5/LS1[PAS]	FM-A6V5/LS1[H]	FM-A6V5/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	97	39	22	⚠ 300	415	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



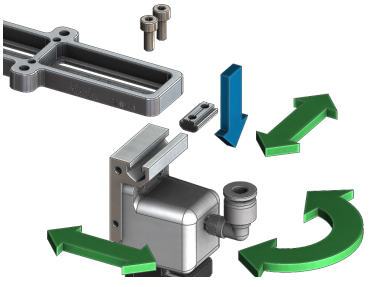


The measuring unit: [mm]

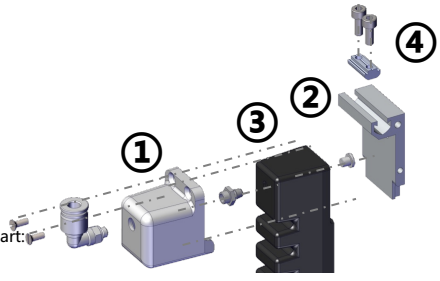


FM

Air Intake & Pose Adjustment



Assembly



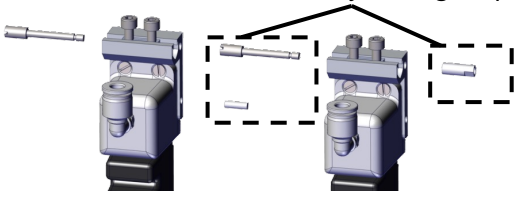
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

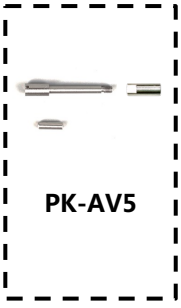
Series combination:

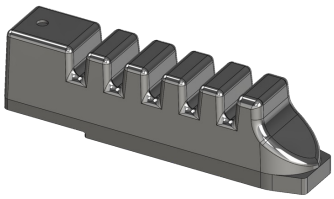
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

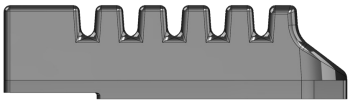
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

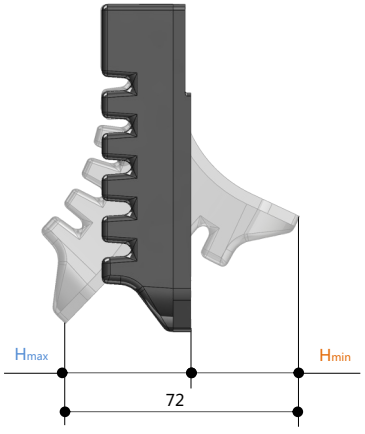
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A6T/LS1[P]	F-A6T/LS1[PAS]	F-A6T/LS1[H]	F-A6T/LS1[HAS]

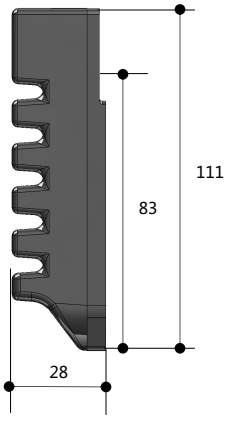
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	g 230	55	39	22	⚠ 300	g 415	55

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

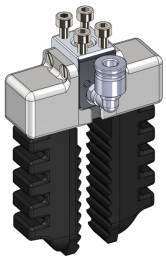
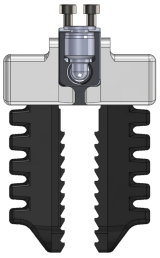
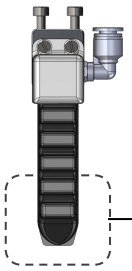
Dimension Parameters



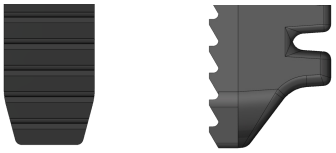




FM

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.



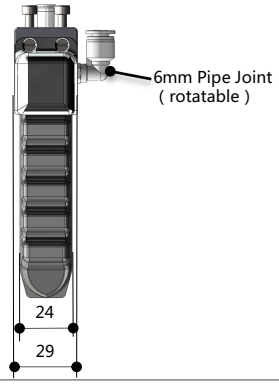
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V1/LS8[P]	FM-A6V1/LS8[PAS]	FM-A6V1/LS8[H]	FM-A6V1/LS8[HAS]

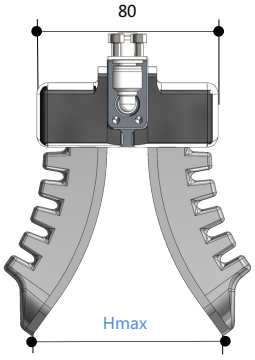
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	84	⚠ 120	460	195	0	62	⚠ 300	830	195

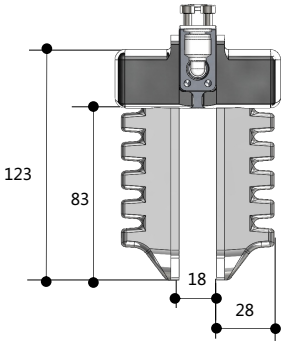
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

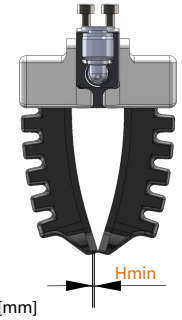
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



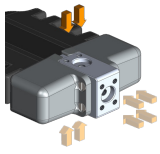


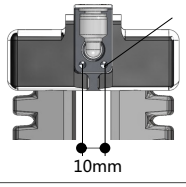


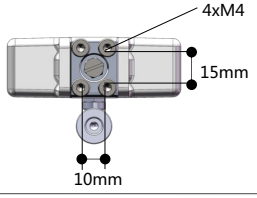


The measuring unit: [mm]

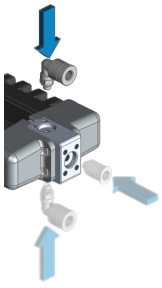
Fixation



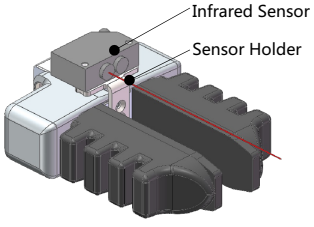




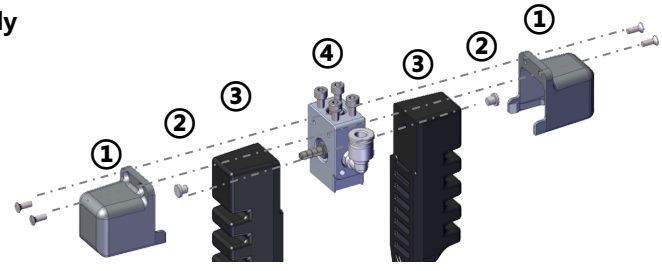
Air Intake



Sensor Installation

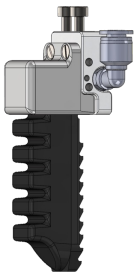


Assembly

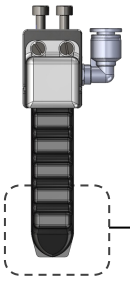


Spare Part:

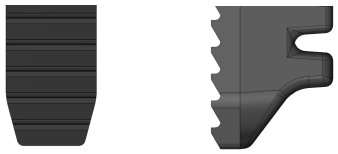
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

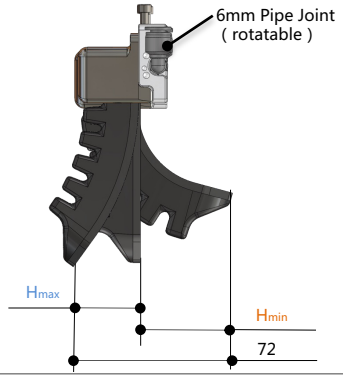


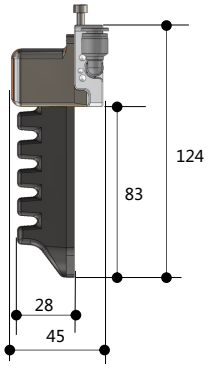
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V2/LS8[P]	FM-A6V2/LS8[PAS]	FM-A6V2/LS8[H]	FM-A6V2/LS8[HAS]

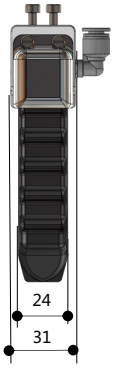
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	113	39	22	⚠ 300	415	113

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

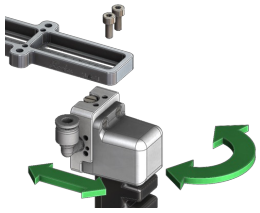




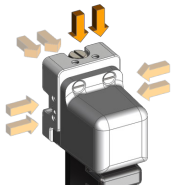


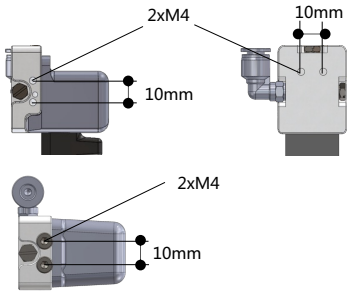
The measuring unit: [mm]

Pose Adjustment

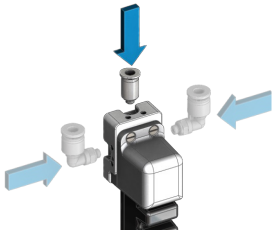


Fixation

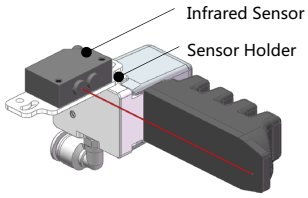




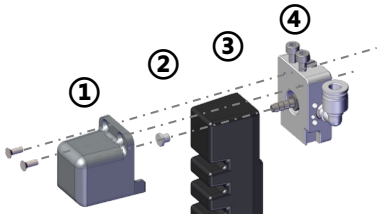
Air Intake



Sensor Installation



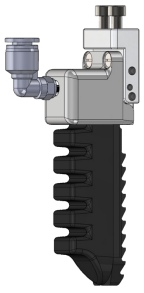
Assembly

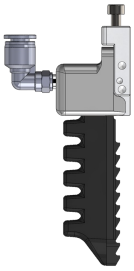


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

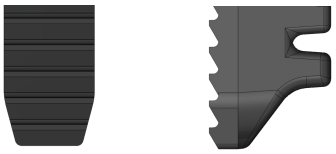
FM







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

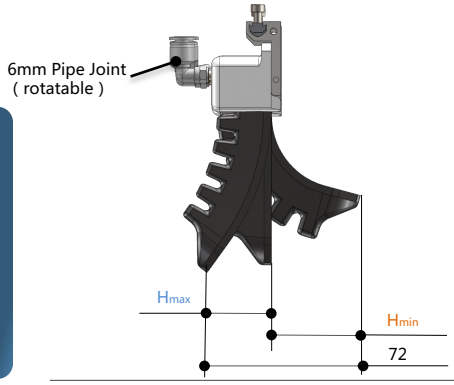


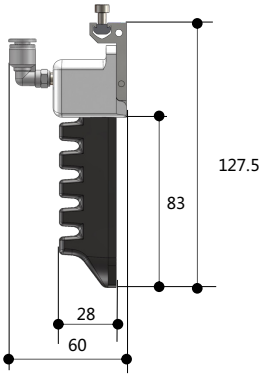
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V3/LS8[P]	FM-A6V3/LS8[PAS]	FM-A6V3/LS8[H]	FM-A6V3/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	98	39	22	⚠ 300	415	98

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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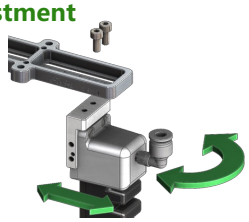




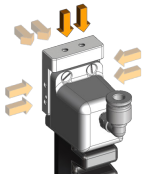
The measuring unit: [mm]

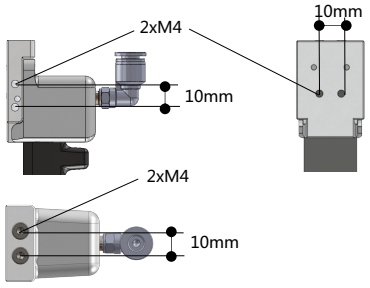
FM

Pose Adjustment



Fixation

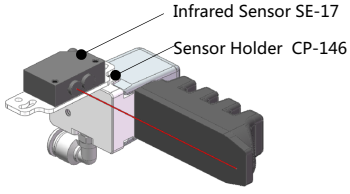




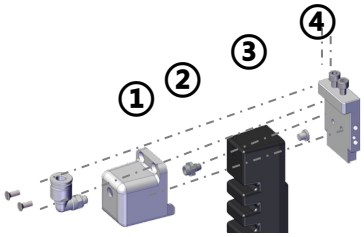
Air Intake



Sensor Installation

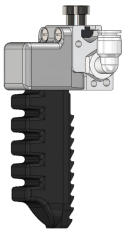
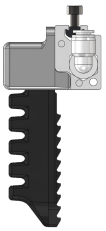
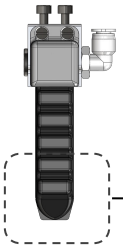


Assembly

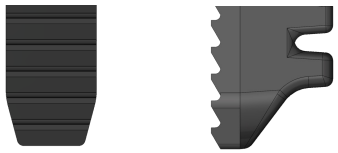


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

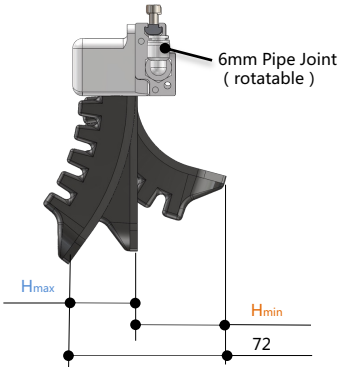


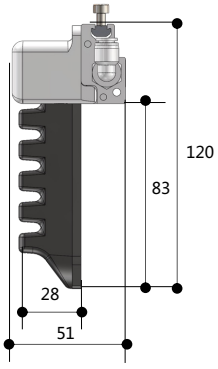
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V4/LS8[P]	FM-A6V4/LS8[PAS]	FM-A6V4/LS8[H]	FM-A6V4/LS8[HAS]

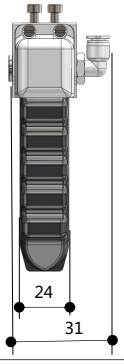
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	110	39	22	⚠ 300	415	119

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

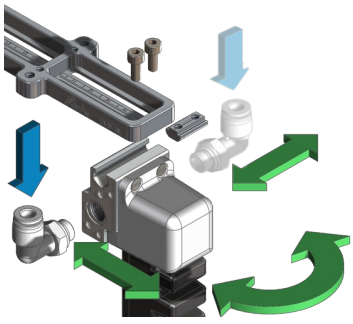




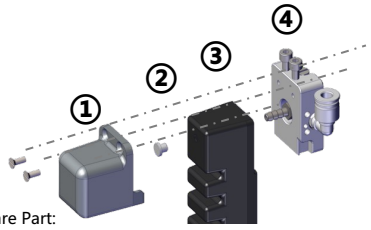


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



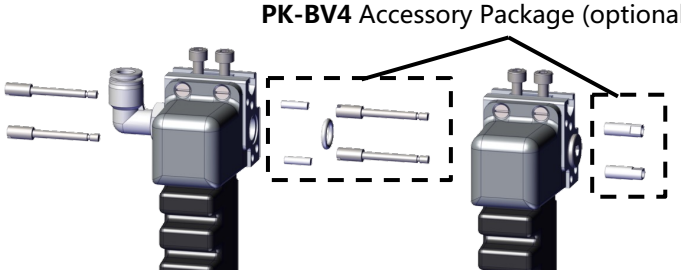
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

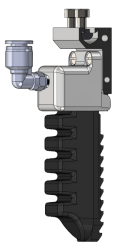
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

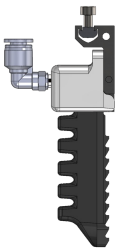
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)



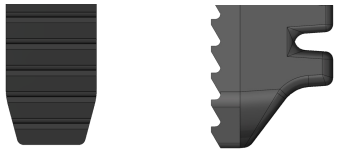








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

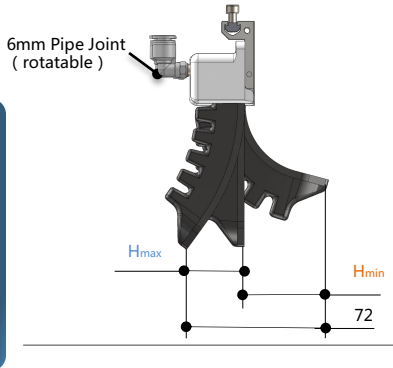


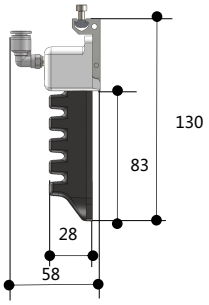
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V5/LS8[P]	FM-A6V5/LS8[PAS]	FM-A6V5/LS8[H]	FM-A6V5/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	97	39	22	⚠ 300	415	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



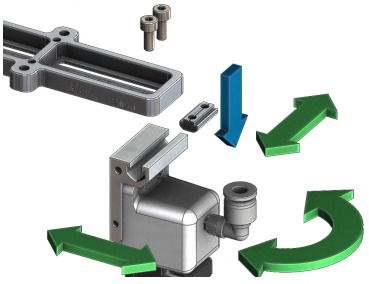




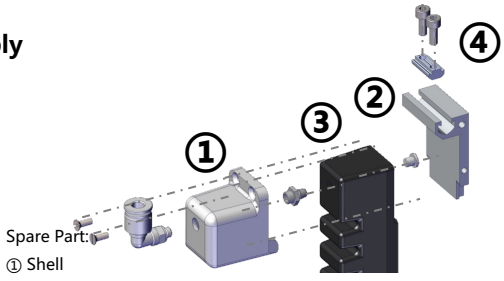
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



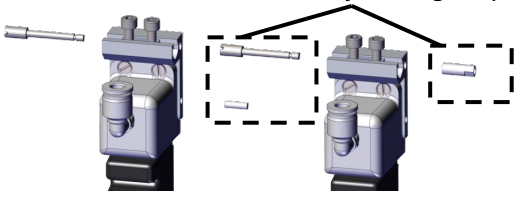
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

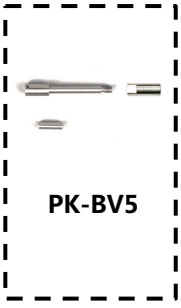
Series combination:

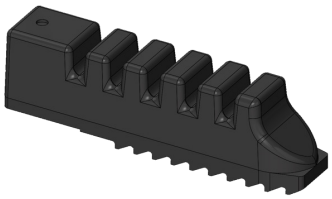
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A6T/LS8[P]	F-A6T/LS8[PAS]	F-A6T/LS8[H]	F-A6T/LS8[HAS]

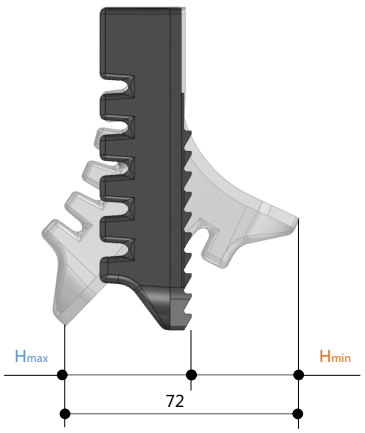
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠120	230	55	39	22	⚠300	415	55

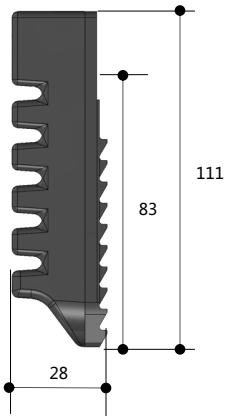
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

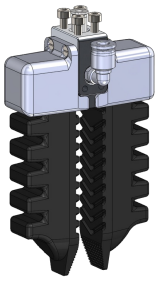
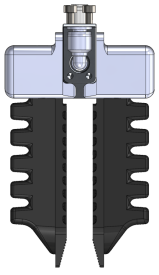
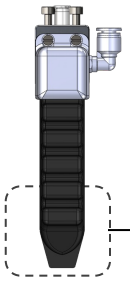
FM

Dimension Parameters

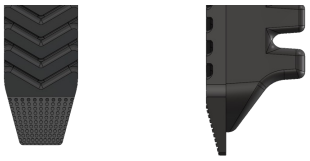






Finger Pattern	
FS3	Suitable for soft fabric products.



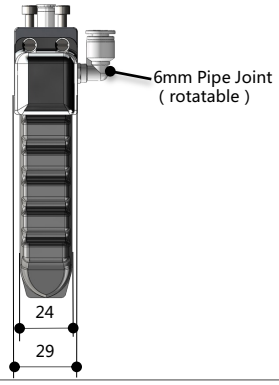
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V1/FS3[P]	FM-A6V1/FS3[PAS]	FM-A6V1/FS3[H]	FM-A6V1/FS3[HAS]

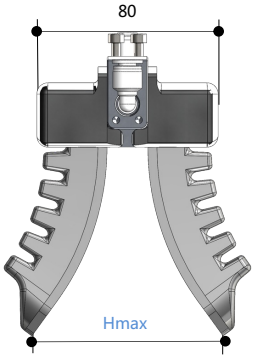
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	84	⚠ 120	460	195	0	62	⚠ 300	830	195

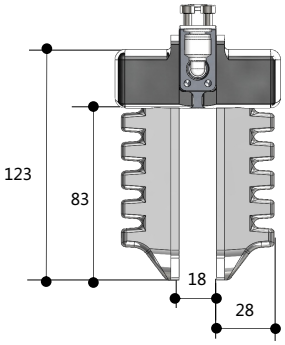
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

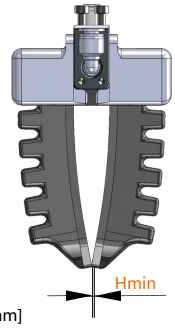
FM



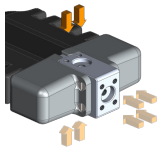


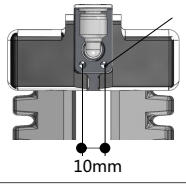


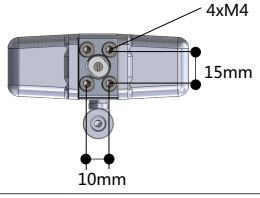
The measuring unit: [mm]



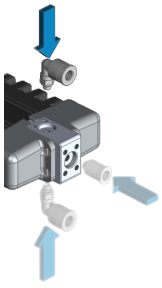
Fixation



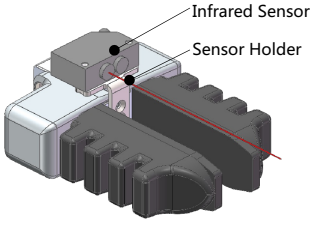




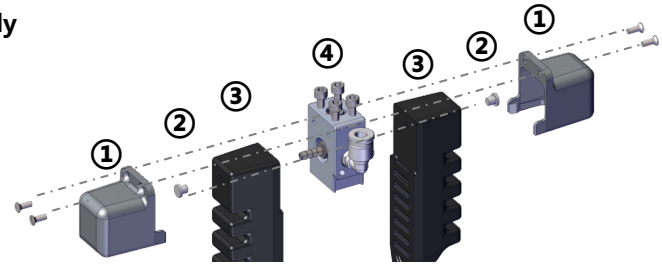
Air Intake



Sensor Installation

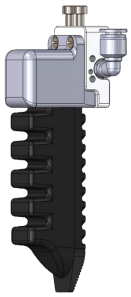


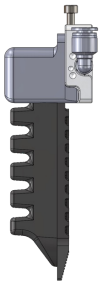
Assembly

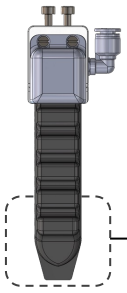


Spare Part:

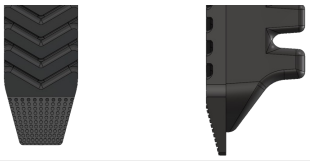
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

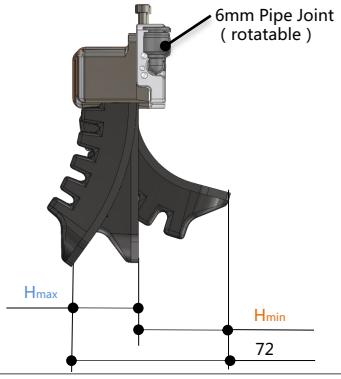


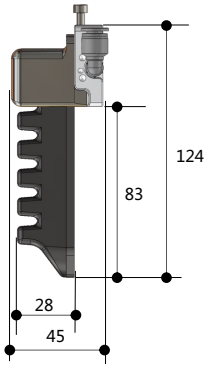
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V2/FS3[P]	FM-A6V2/FS3[PAS]	FM-A6V2/FS3[H]	FM-A6V2/FS3[HAS]

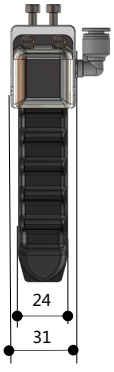
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	113	39	22	⚠ 300	415	113

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

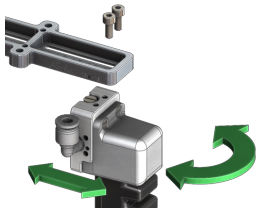




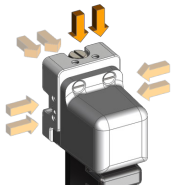


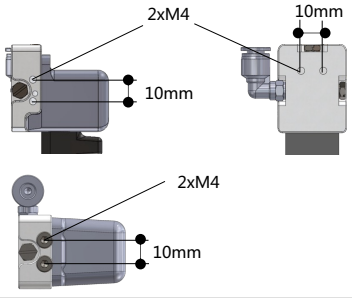
The measuring unit: [mm]

Pose Adjustment

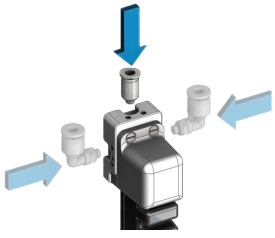


Fixation

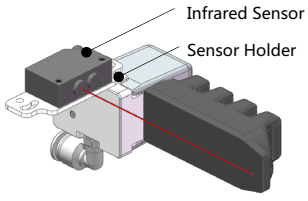




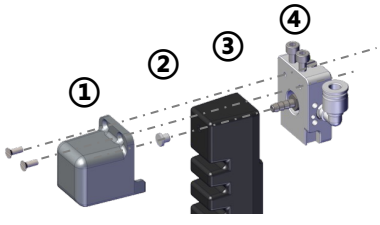
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

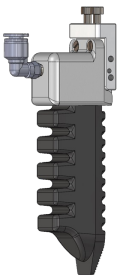
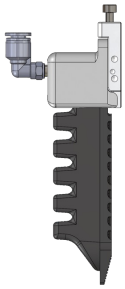
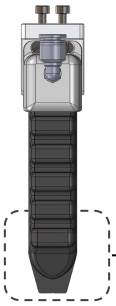
Finger Module

FM -A6V3 / FS3

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
FS3	Suitable for soft fabric products.

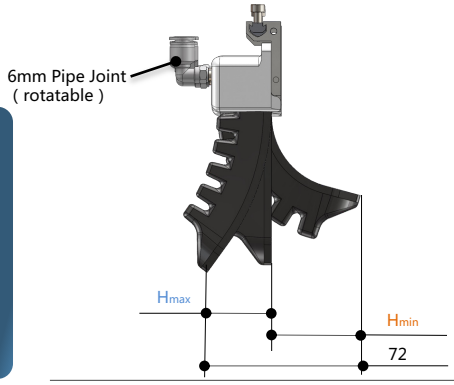


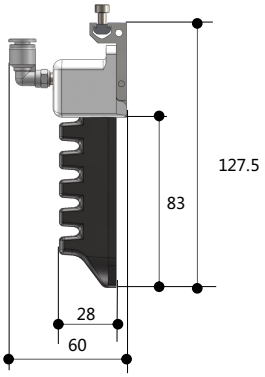

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V3/FS3[P]	FM-A6V3/FS3[PAS]	FM-A6V3/FS3[H]	FM-A6V3/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	98	39	22	⚠ 300	415	98

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



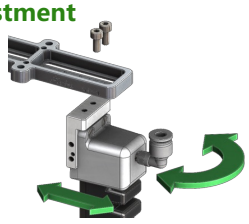




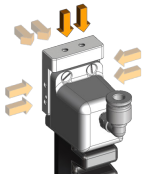
The measuring unit: [mm]

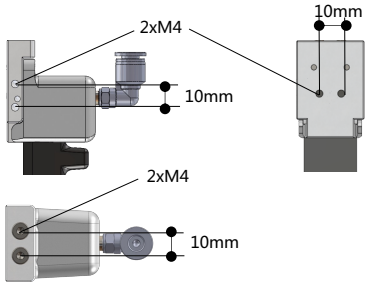
FM

Pose Adjustment



Fixation

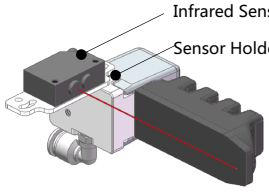




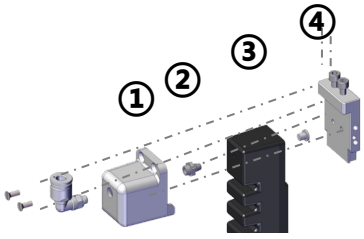
Air Intake



Sensor Installation

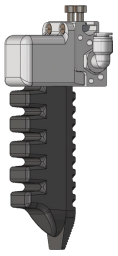
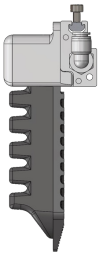
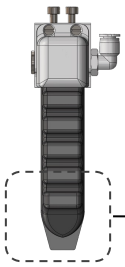


Assembly

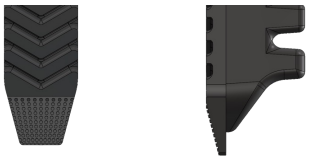


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

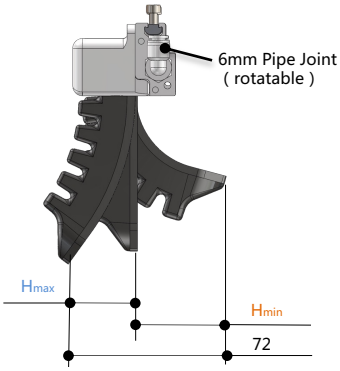


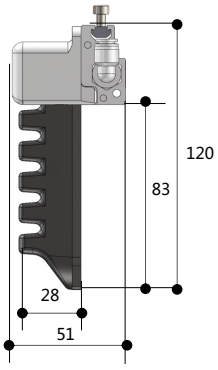
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V4/FS3[P]	FM-A6V4/FS3[PAS]	FM-A6V4/FS3[H]	FM-A6V4/FS3[HAS]

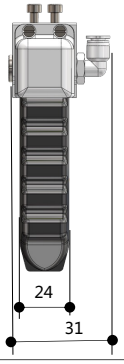
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	119	39	22	⚠ 300	415	119

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

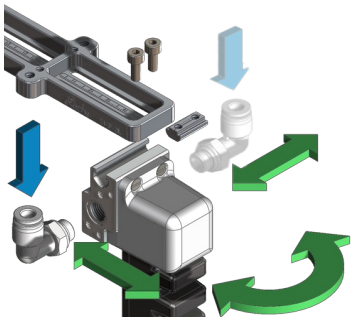




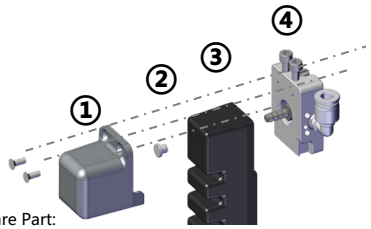


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



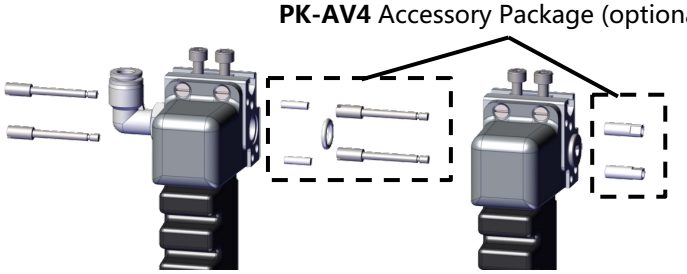
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

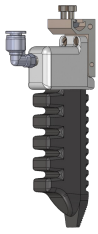
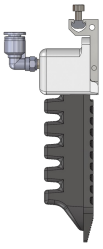
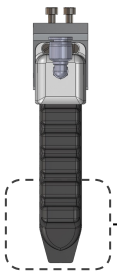
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





FM

Finger Pattern	
FS3	Suitable for soft fabric products.

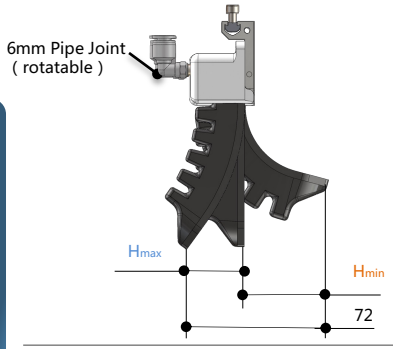


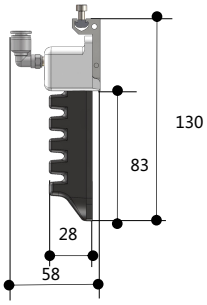

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V5/FS3[P]	FM-A6V5/FS3[PAS]	FM-A6V5/FS3[H]	FM-A6V5/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	97	39	22	⚠ 300	415	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



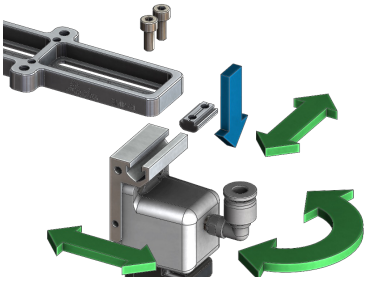




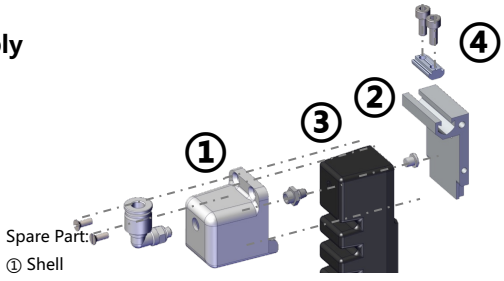
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



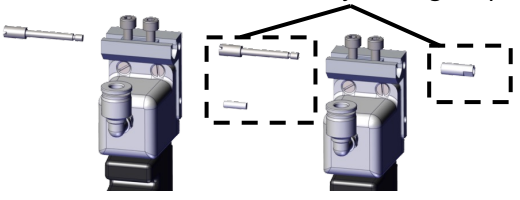
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

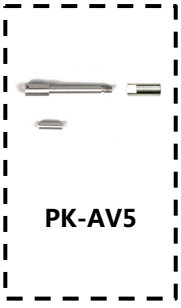
Series combination:

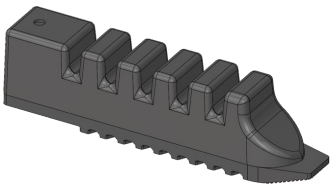
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

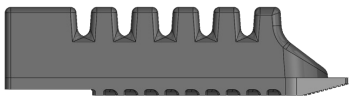
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A6T/FS3[P]	F-A6T/FS3[PAS]	F-A6T/FS3[H]	F-A6T/FS3[HAS]

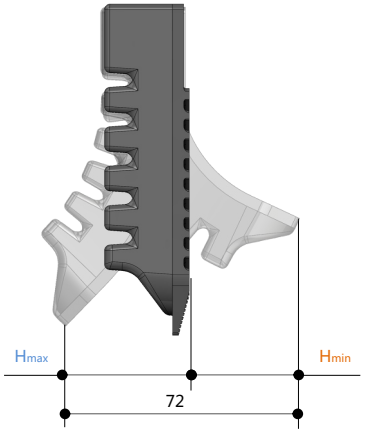
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	55	39	22	⚠ 300	415	55

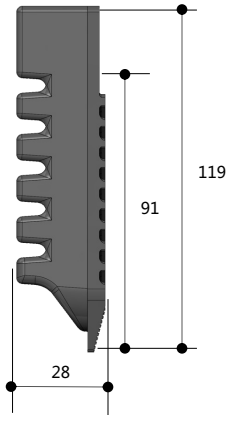
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

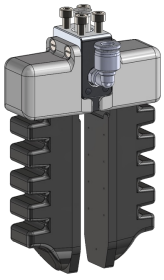
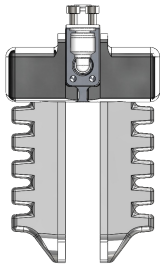
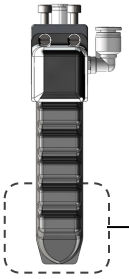
FM

Dimension Parameters







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.



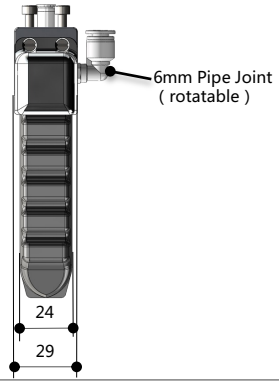
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V1/LF1[P]	FM-A6V1/LF1[PAS]	FM-A6V1/LF1[H]	FM-A6V1/LF1[HAS]

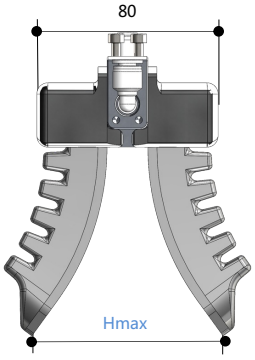
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	84	⚠ 120	460	195	0	62	⚠ 300	830	195

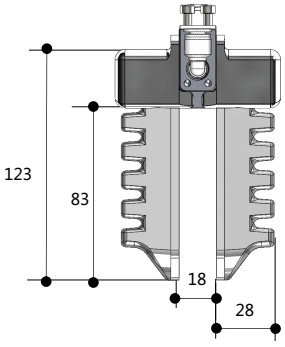
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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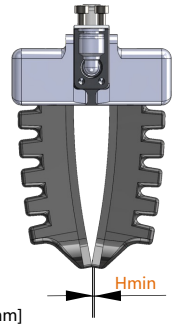
FM



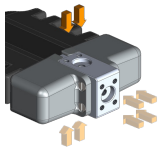


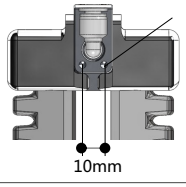


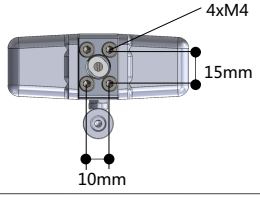
The measuring unit: [mm]



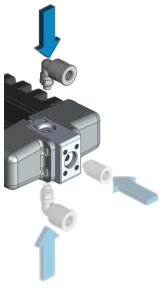
Fixation



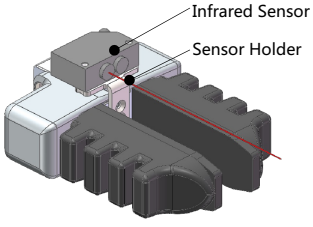




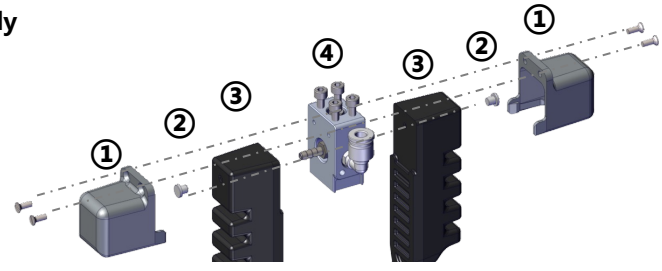
Air Intake



Sensor Installation

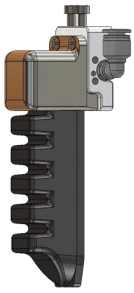
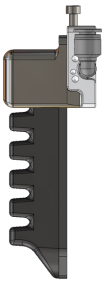
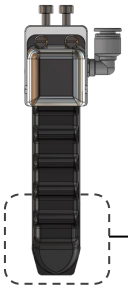


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

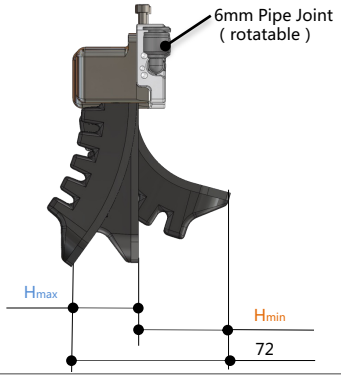


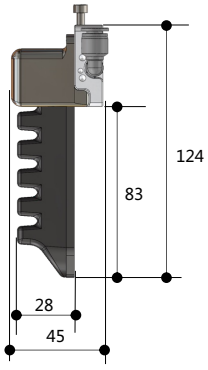
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V2/LF1[P]	FM-A6V2/LF1[PAS]	FM-A6V2/LF1[H]	FM-A6V2/LF1[HAS]

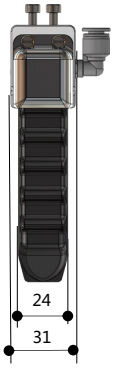
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	113	39	22	⚠ 300	415	113

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

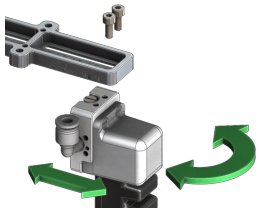




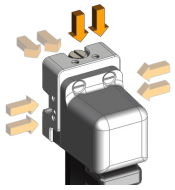


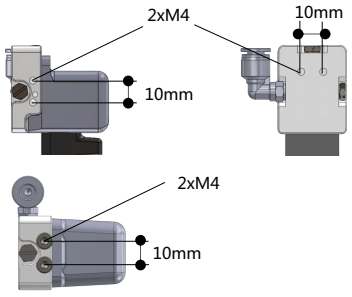
The measuring unit: [mm]

Pose Adjustment

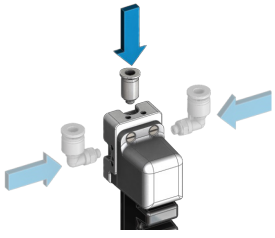


Fixation

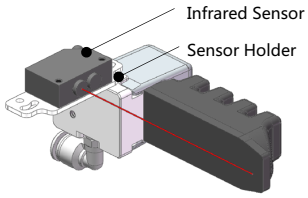




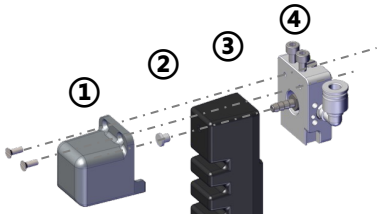
Air Intake



Sensor Installation

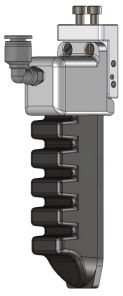
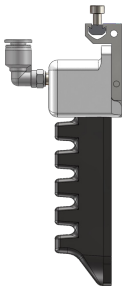


Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM


Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

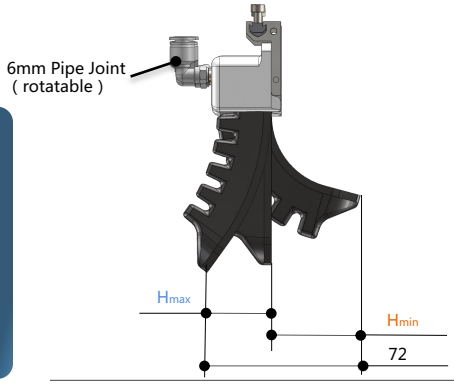


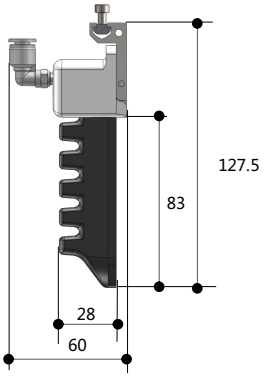
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V3/LF1[P]	FM-A6V3/LF1[PAS]	FM-A6V3/LF1[H]	FM-A6V3/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	98	39	22	⚠ 300	415	98

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



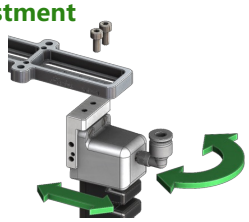




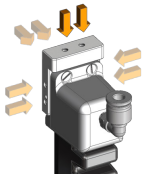
The measuring unit: [mm]

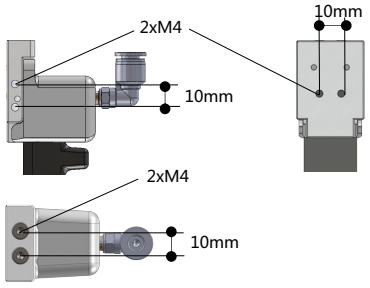
FM

Pose Adjustment



Fixation

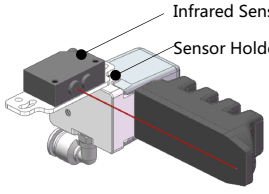




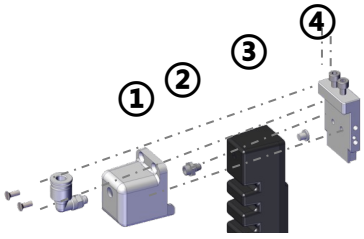
Air Intake



Sensor Installation

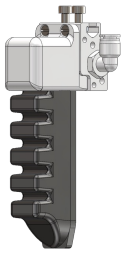
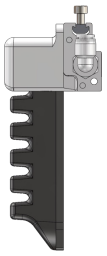
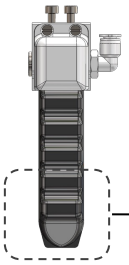


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

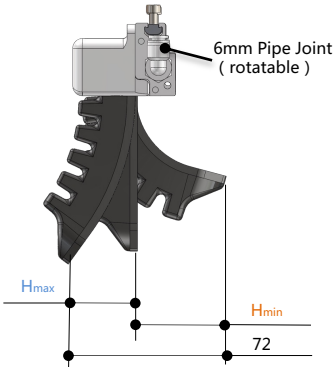


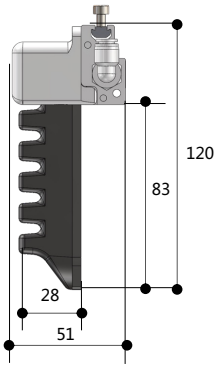
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V4/LF1[P]	FM-A6V4/LF1[PAS]	FM-A6V4/LF1[H]	FM-A6V4/LF1[HAS]

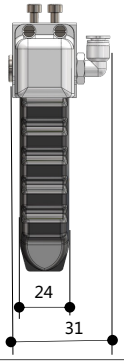
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	119	39	22	⚠ 300	415	119

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

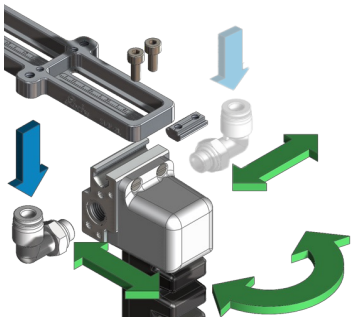




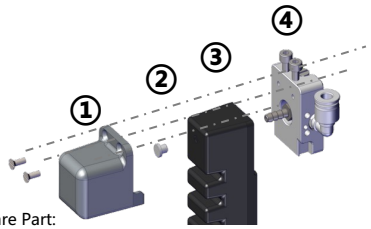


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



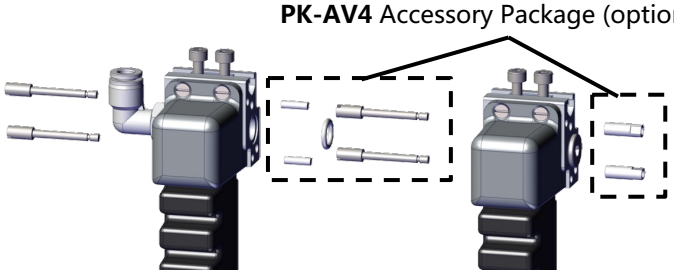
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

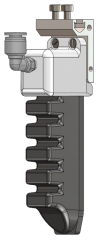
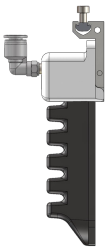
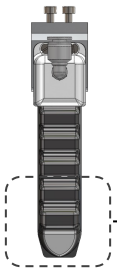
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





FM

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

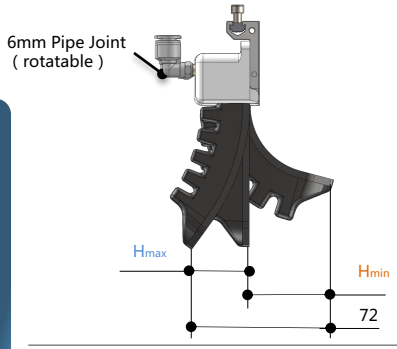


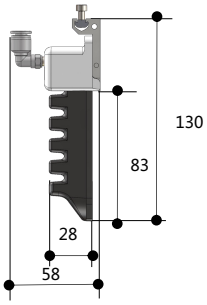

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A6V5/LF1[P]	FM-A6V5/LF1[PAS]	FM-A6V5/LF1[H]	FM-A6V5/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠ 120	230	97	39	22	⚠ 300	415	97

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



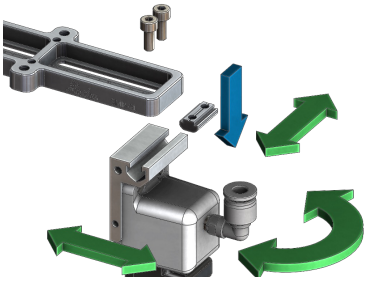




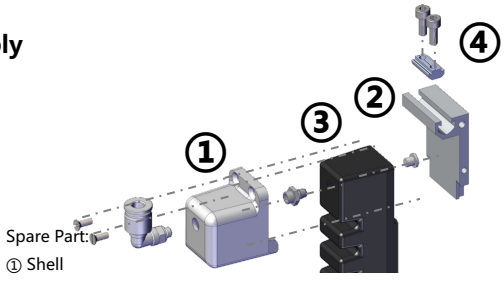
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



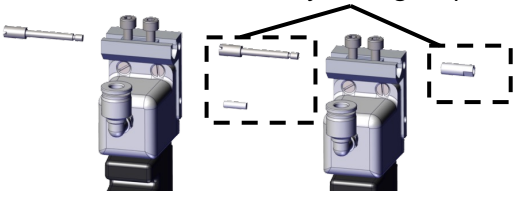
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

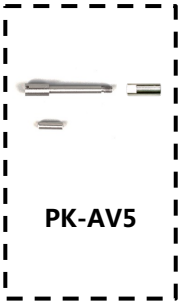
Series combination:

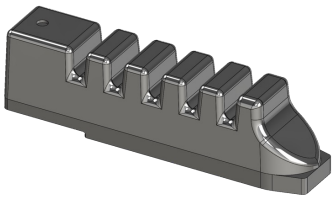
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

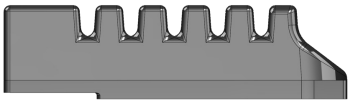
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

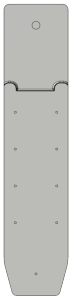
PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A6T/LF1[P]	F-A6T/LF1[PAS]	F-A6T/LF1[H]	F-A6T/LF1[HAS]

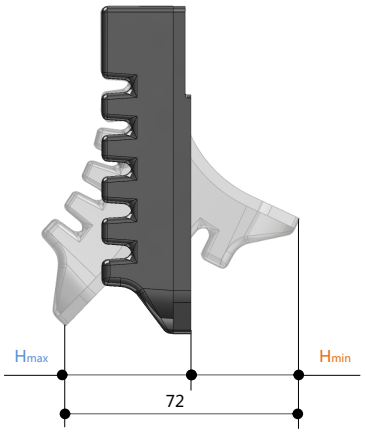
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
39	33	⚠120	230	55	39	22	⚠300	415	55

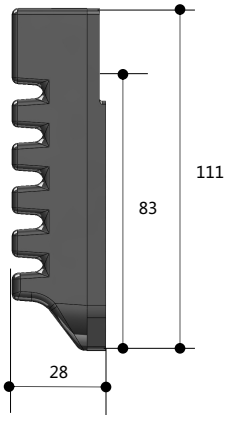
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

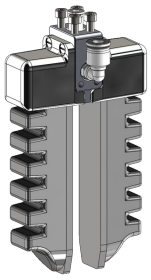
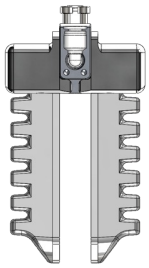
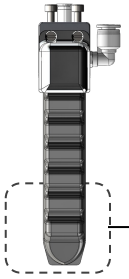
FM

Dimension Parameters

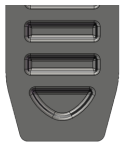






Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

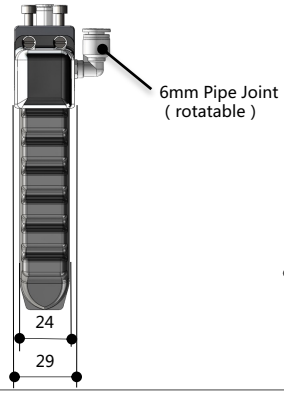


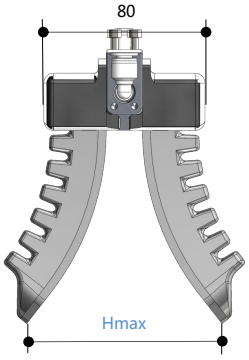

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V1/LS1[P]	FM-A7V1/LS1[PAS]	FM-A7V1/LS1[H]	FM-A7V1/LS1[HAS]

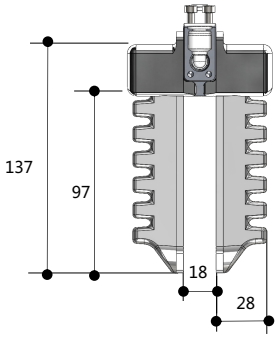
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	96	⚠ 120	440	210	0	72	⚠ 300	760	210

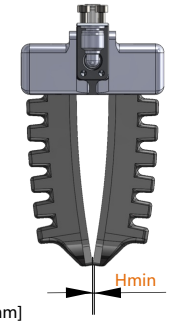
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





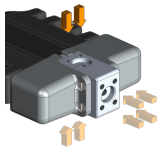


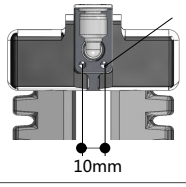


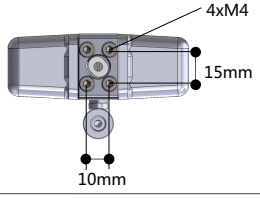
The measuring unit: [mm]

FM

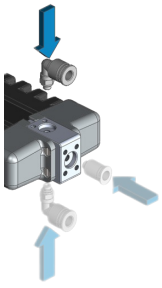
Fixation



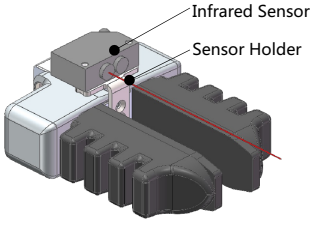




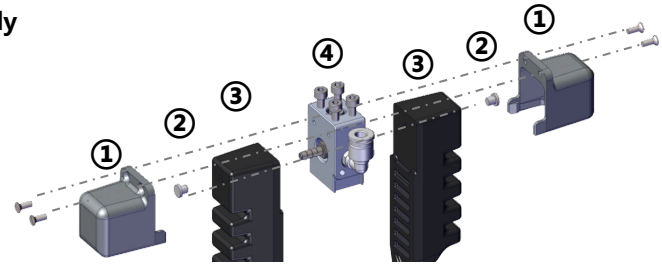
Air Intake



Sensor Installation

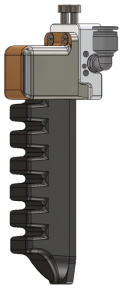


Assembly



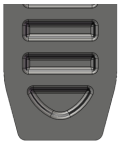
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

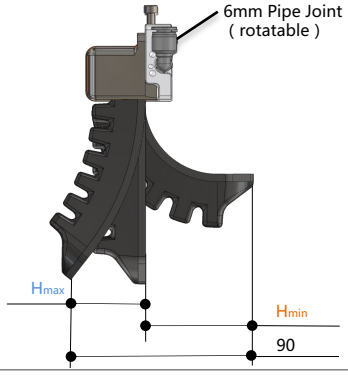


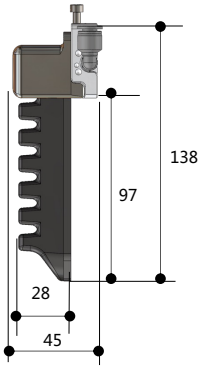

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V2/LS1[P]	FM-A7V2/LS1[PAS]	FM-A7V2/LS1[H]	FM-A7V2/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	120	51	27	⚠ 300	380	120

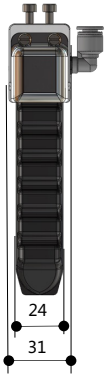
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



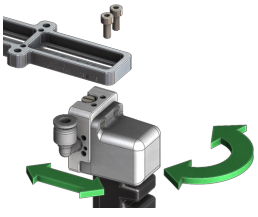


The measuring unit: [mm]

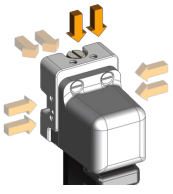


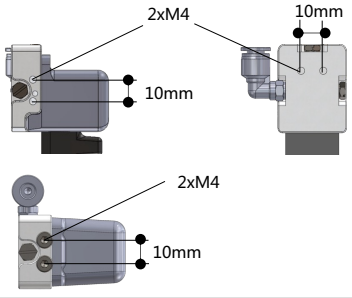
FM

Pose Adjustment

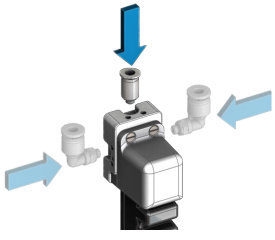


Fixation

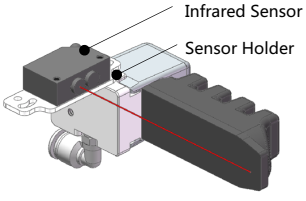




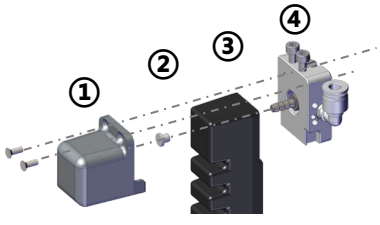
Air Intake



Sensor Installation

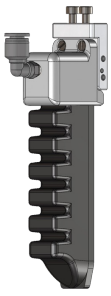
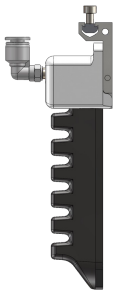


Assembly

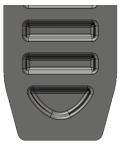


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

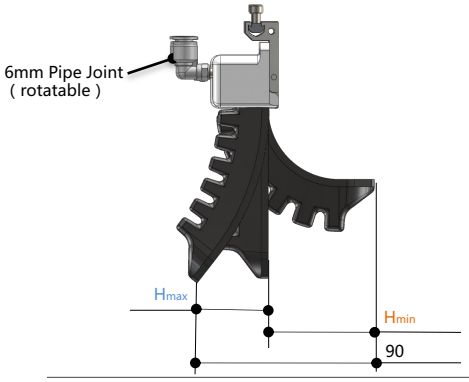


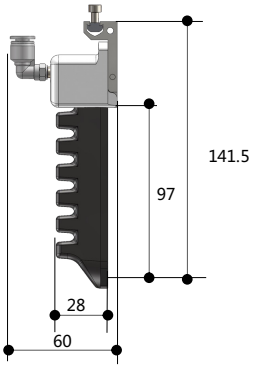

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V3/LS1[P]	FM-A7V3/LS1[PAS]	FM-A7V3/LS1[H]	FM-A7V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	105	51	27	⚠ 300	380	105

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



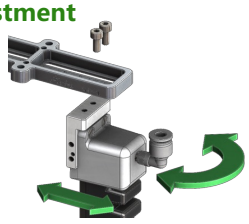




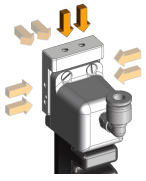
The measuring unit: [mm]

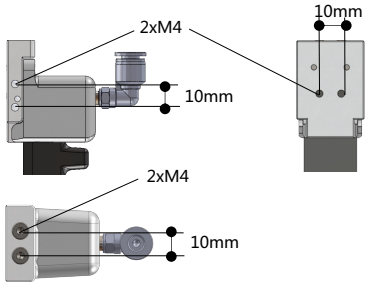
FM

Pose Adjustment



Fixation

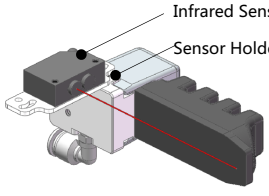




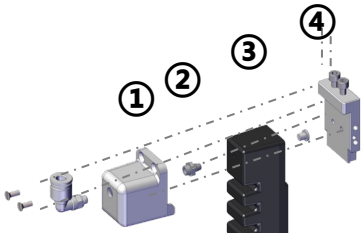
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

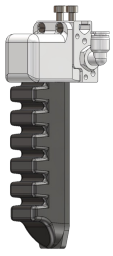
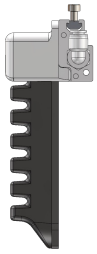
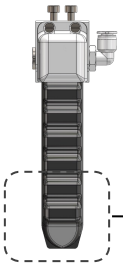
Finger Module

FM -A7V4 / LS1

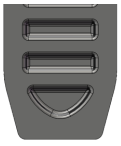
https://rochu.partcommunity.com/3d-cad-models/

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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

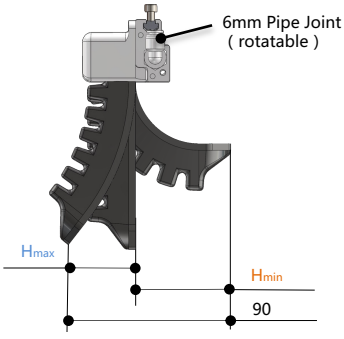


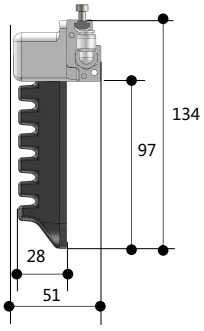

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V4/LS1[P]	FM-A7V4/LS1[PAS]	FM-A7V4/LS1[H]	FM-A7V4/LS1[HAS]

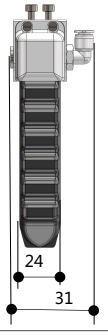
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	126	51	27	⚠ 300	380	126

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



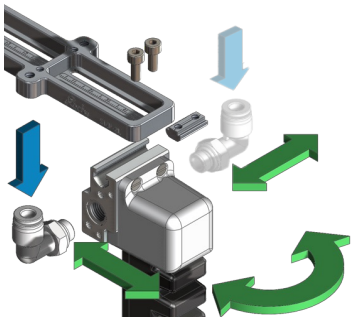




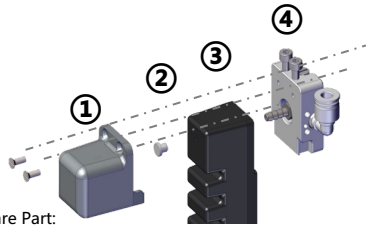
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



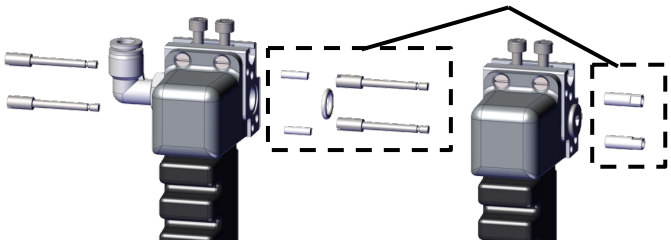
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

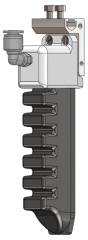
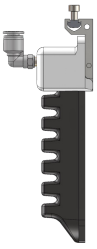
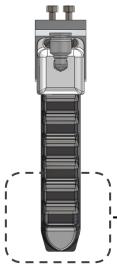
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

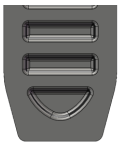
PK-AV4 Accessory Package (optional)





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

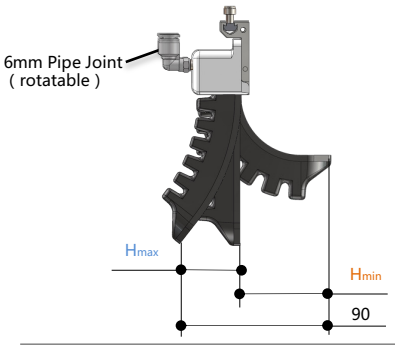


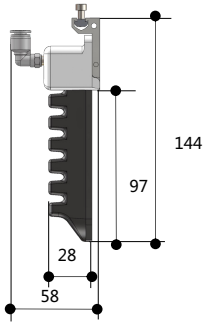

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V5/LS1[P]	FM-A7V5/LS1[PAS]	FM-A7V5/LS1[H]	FM-A7V5/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	104	51	27	⚠ 300	380	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

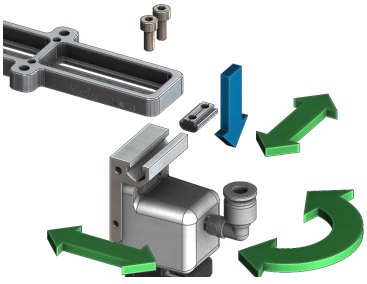




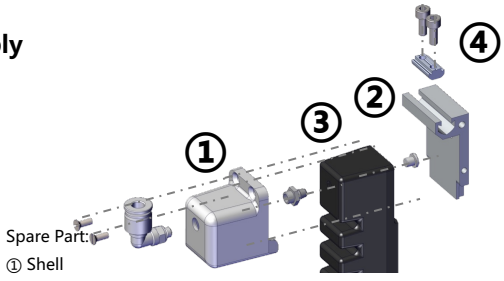


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



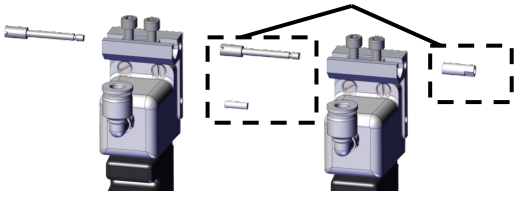
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

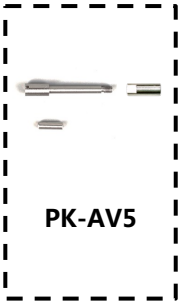
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

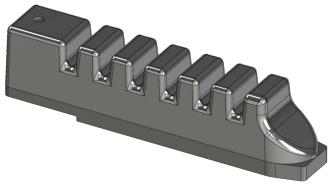
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

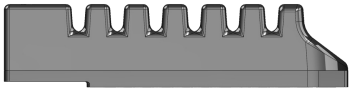
PK-AV5 Accessory Package (optional)





FM







Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A7T/LS1[P]	F-A7T/LS1[PAS]	F-A7T/LS1[H]	F-A7T/LS1[HAS]

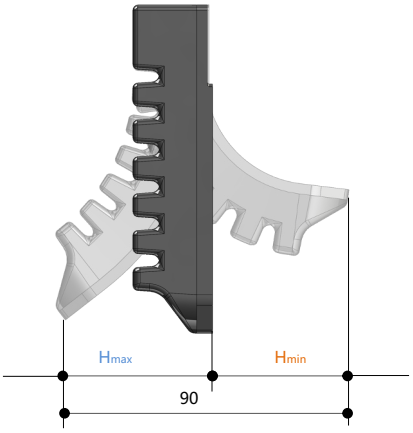
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	62	51	27	⚠ 300	380	62

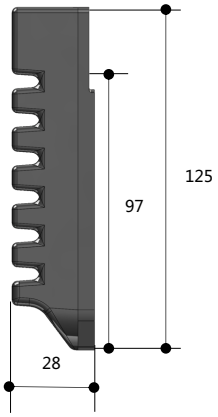
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

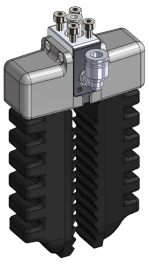
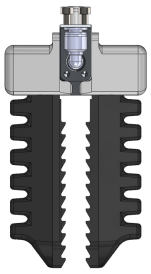
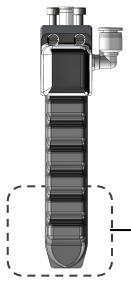
FM

Dimension Parameters

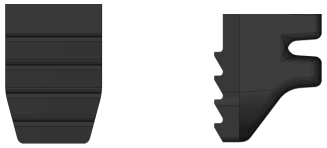






Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

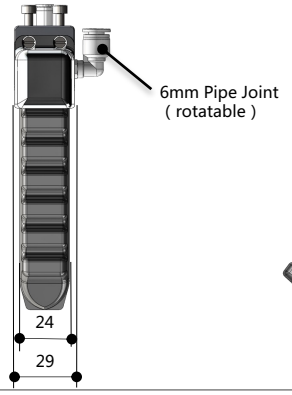


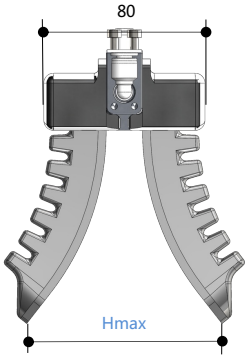
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V1/LS8[P]	FM-A7V1/LS8[PAS]	FM-A7V1/LS8[H]	FM-A7V1/LS8[HAS]

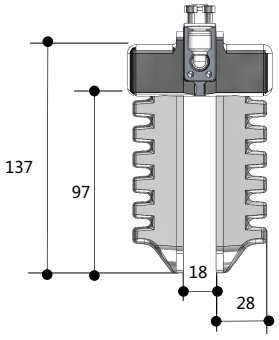
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	96	⚠ 120	440	210	0	72	⚠ 300	760	210

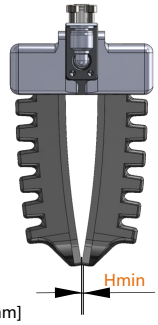
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



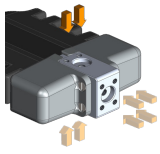


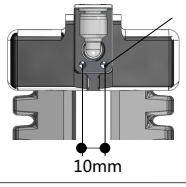


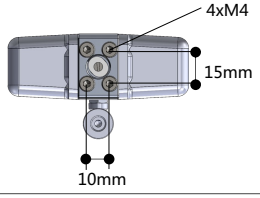


The measuring unit: [mm]

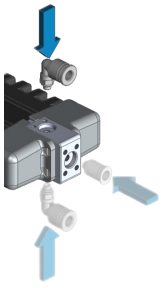
Fixation



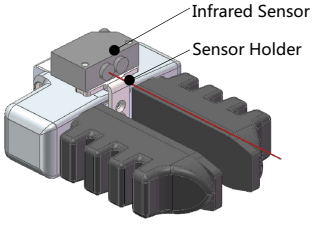




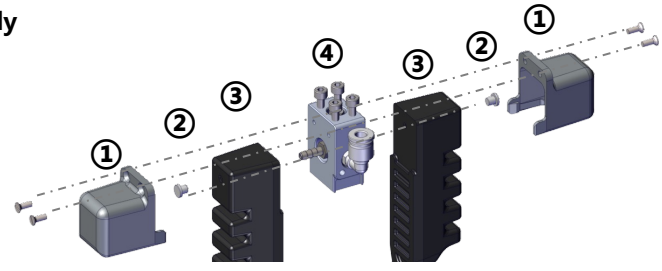
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

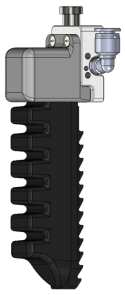
Finger Module

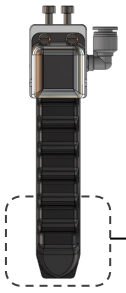
FM -A7V2 / LS8

https://rochu.partcommunity.com/3d-cad-models/

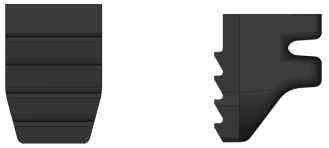
Download 3D-CAD-models for free

Scan to watch videos





Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

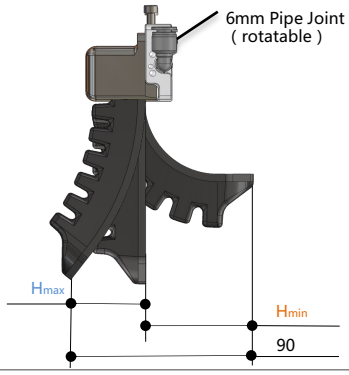


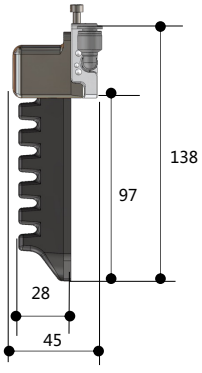
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V2/LS8[P]	FM-A7V2/LS8[PAS]	FM-A7V2/LS8[H]	FM-A7V2/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	120	51	27	⚠ 300	380	120

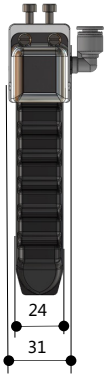
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



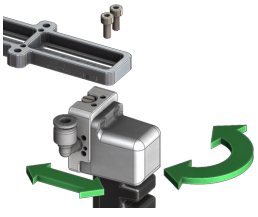


The measuring unit: [mm]

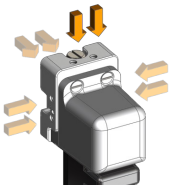


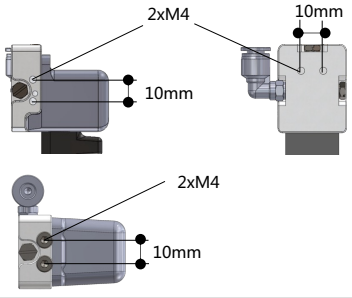
FM

Pose Adjustment

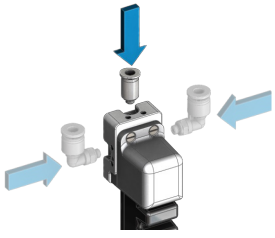


Fixation

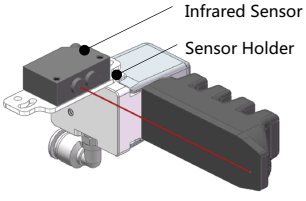




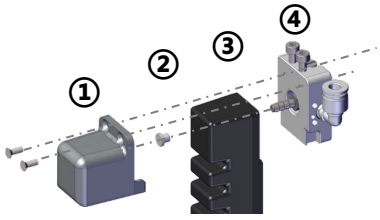
Air Intake



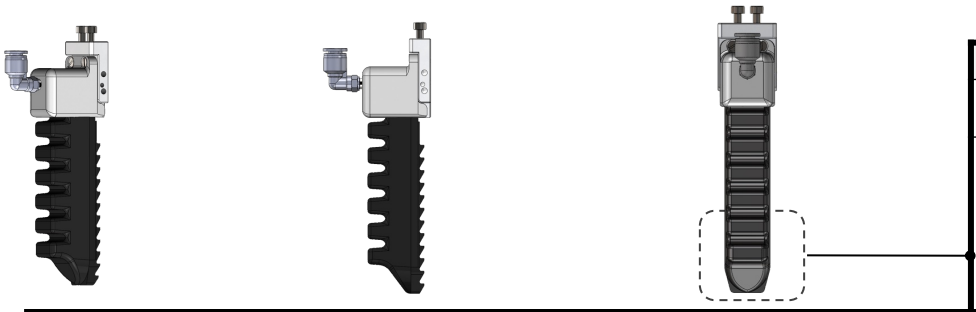
Sensor Installation



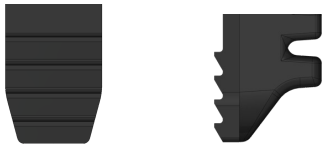
Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block



Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

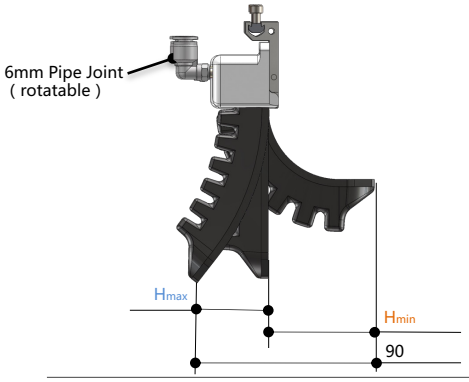


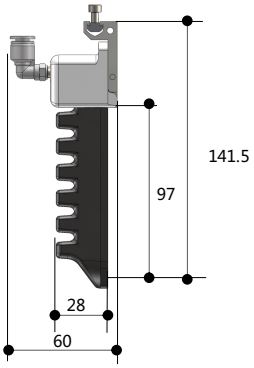
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V3/LS8[P]	FM-A7V3/LS8[PAS]	FM-A7V3/LS8[H]	FM-A7V3/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	105	51	27	⚠ 300	380	105

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

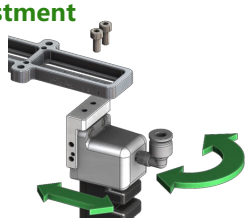




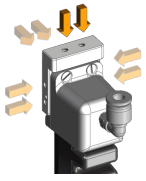


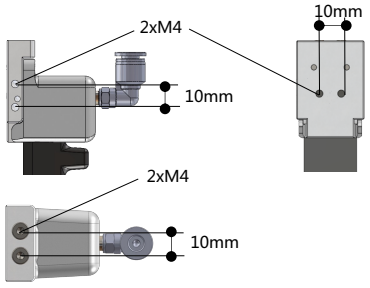
The measuring unit: [mm]

Pose Adjustment



Fixation

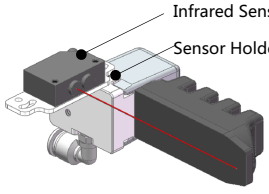




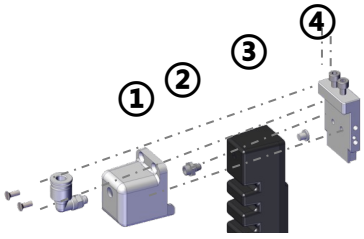
Air Intake



Sensor Installation



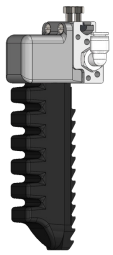
Assembly

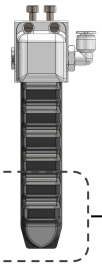


Spare Part:

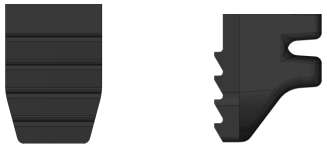
① Shell
② Plug
③ Finger
④ Mounting Block

FM





Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

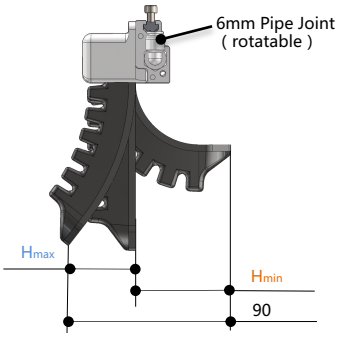


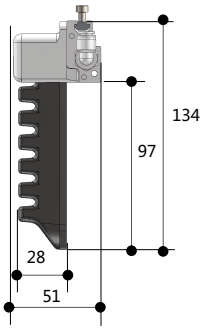
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V4/LS8[P]	FM-A7V4/LS8[PAS]	FM-A7V4/LS8[H]	FM-A7V4/LS8[HAS]

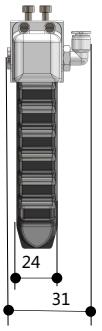
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	126	51	27	⚠ 300	380	126

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



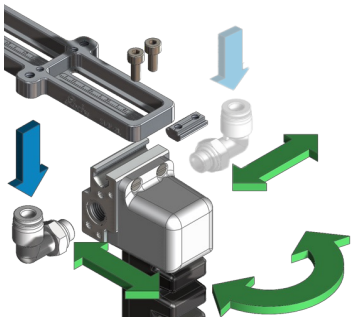




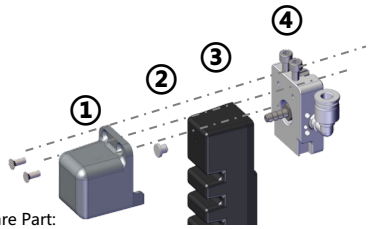
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



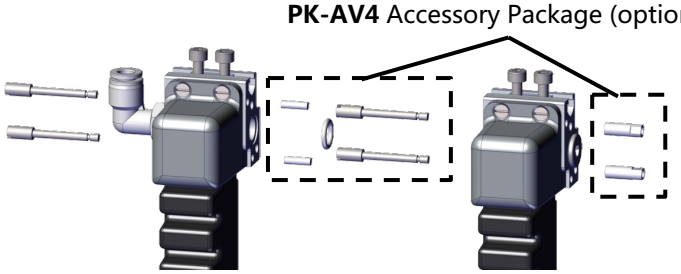
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

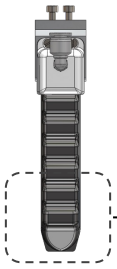
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)

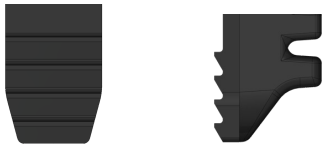








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

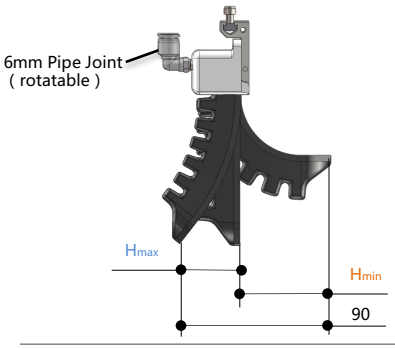


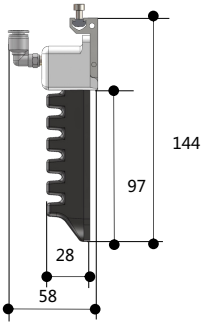
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V5/LS8[P]	FM-A7V5/LS8[PAS]	FM-A7V5/LS8[H]	FM-A7V5/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	104	51	27	⚠ 300	380	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

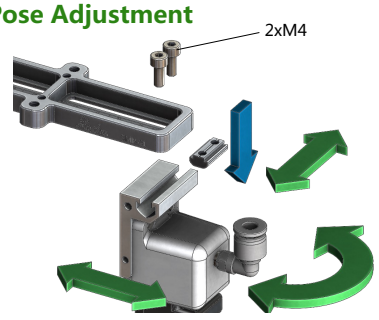




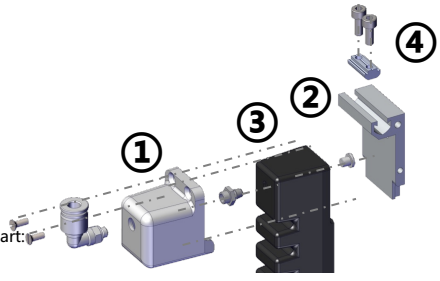


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



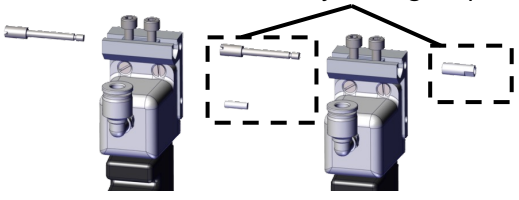
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

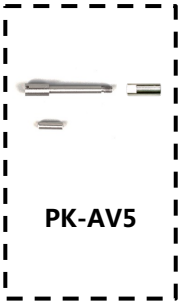
Series combination:

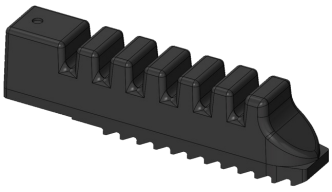
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A7T/LS8[P]	F-A7T/LS8[PAS]	F-A7T/LS8[H]	F-A7T/LS8[HAS]

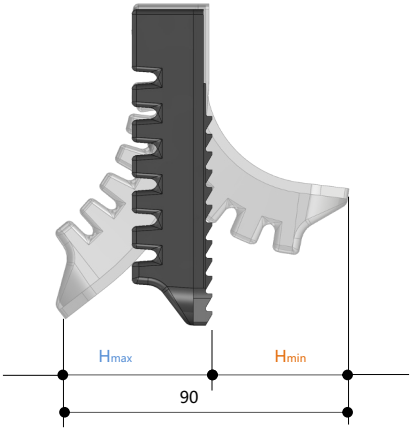
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	62	51	27	⚠ 300	380	62

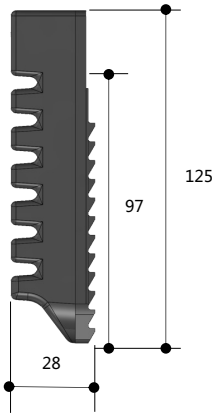
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

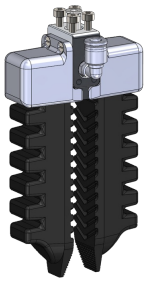
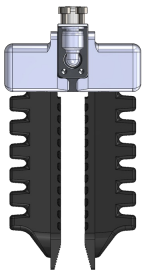
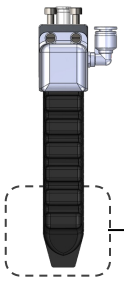
FM

Dimension Parameters

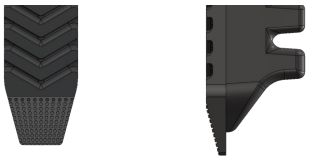






Finger Pattern	
FS3	Suitable for soft fabric products.

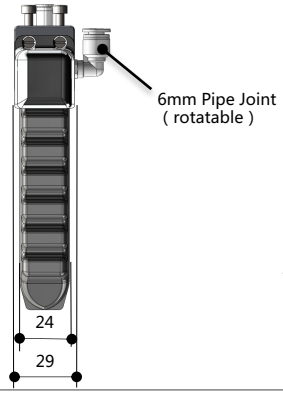


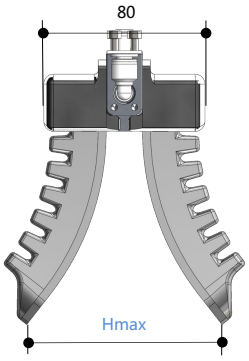
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V1/FS3[P]	FM-A7V1/FS3[PAS]	FM-A7V1/FS3[H]	FM-A7V1/FS3[HAS]

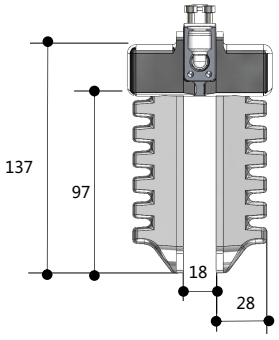
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	96	⚠ 120	440	210	0	72	⚠ 300	760	210

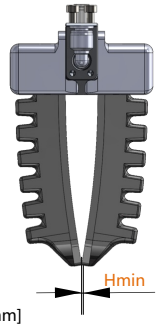
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





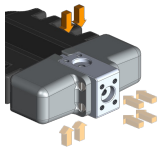


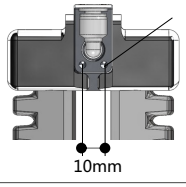


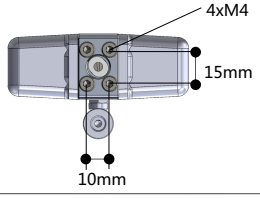
The measuring unit: [mm]

FM

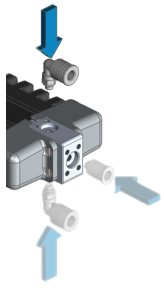
Fixation



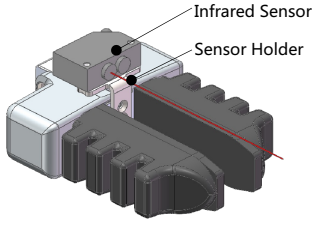




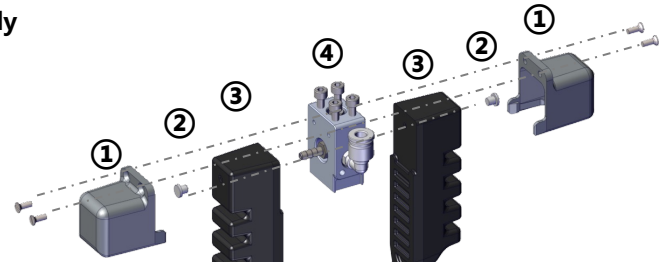
Air Intake



Sensor Installation

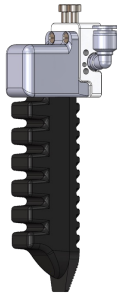


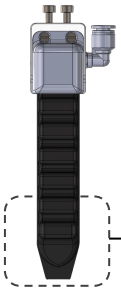
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
FS3	Suitable for soft fabric products.

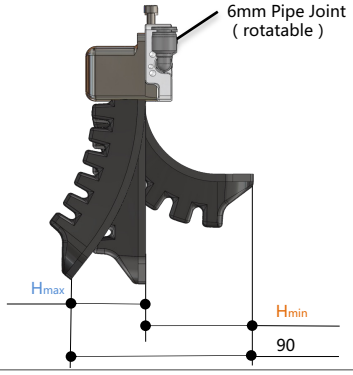


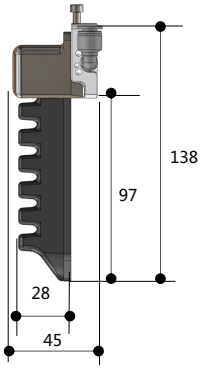

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V2/FS3[P]	FM-A7V2/FS3[PAS]	FM-A7V2/FS3[H]	FM-A7V2/FS3[HAS]

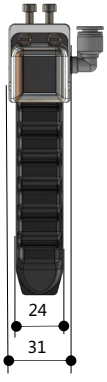
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	120	51	27	⚠ 300	380	120

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

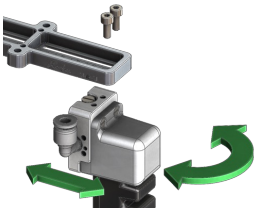




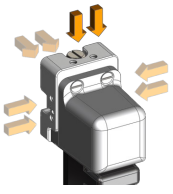


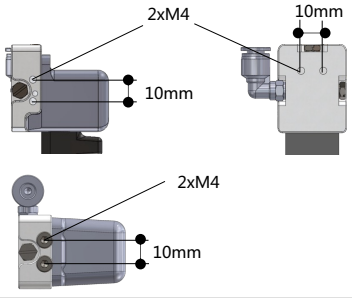
The measuring unit: [mm]

Pose Adjustment

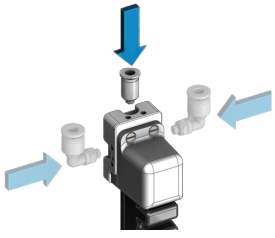


Fixation

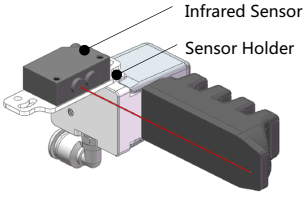




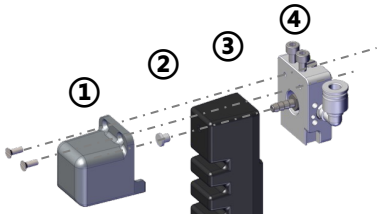
Air Intake



Sensor Installation

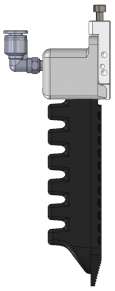


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block


Finger Pattern	
FS3	Suitable for soft fabric products.

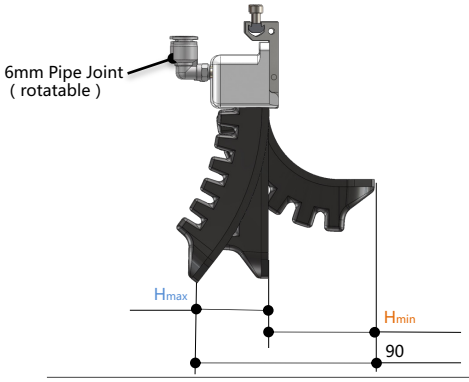


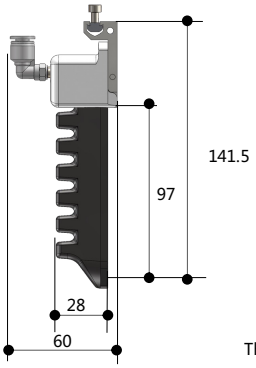

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V3/FS3[P]	FM-A7V3/FS3[PAS]	FM-A7V3/FS3[H]	FM-A7V3/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	105	51	27	⚠ 300	380	105

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

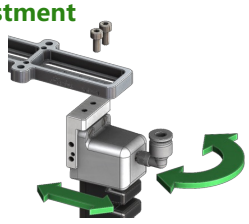




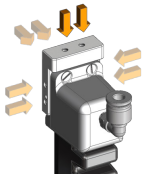
The measuring unit: [mm]

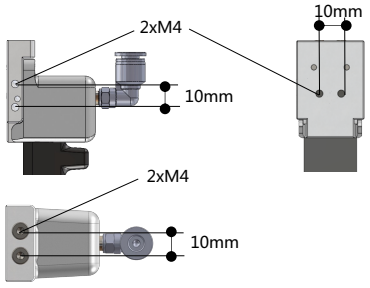


Pose Adjustment



Fixation

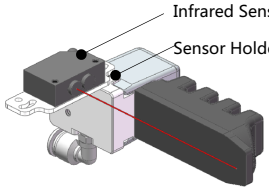




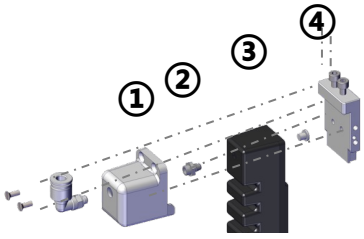
Air Intake



Sensor Installation



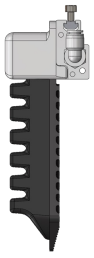
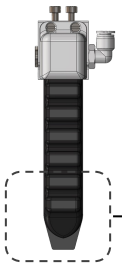
Assembly



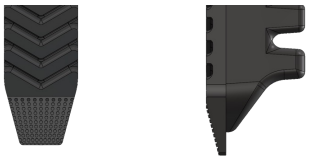
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
FS3	Suitable for soft fabric products.

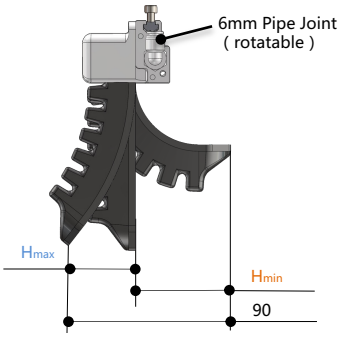


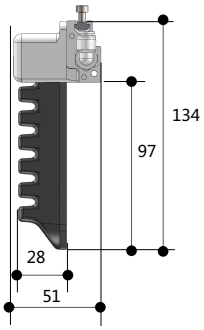
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V4/FS3[P]	FM-A7V4/FS3[PAS]	FM-A7V4/FS3[H]	FM-A7V4/FS3[HAS]

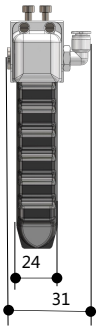
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	126	51	27	⚠ 300	380	126

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



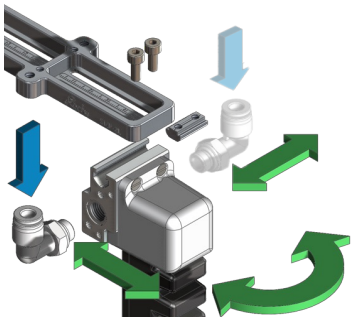




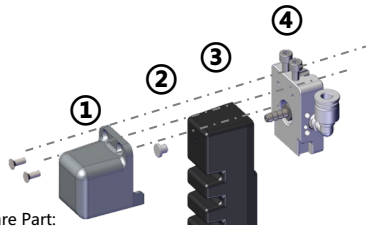
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



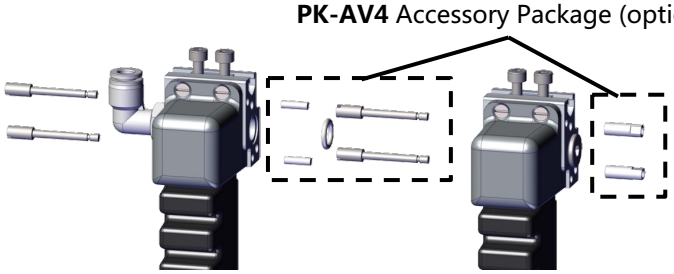
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

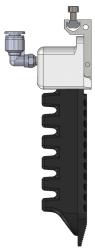
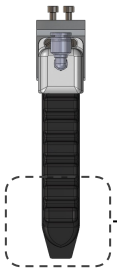
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV4 Accessory Package (optional)





Finger Pattern	
FS3	Suitable for soft fabric products.

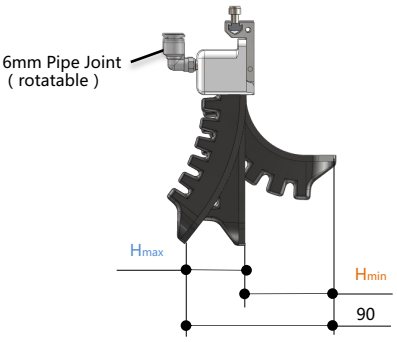


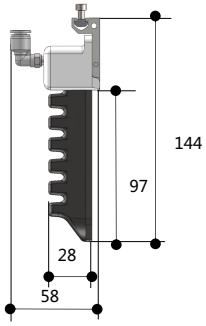

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A7V5/FS3[P]	FM-A7V5/FS3[PAS]	FM-A7V5/FS3[H]	FM-A7V5/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	104	51	27	⚠ 300	380	104

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

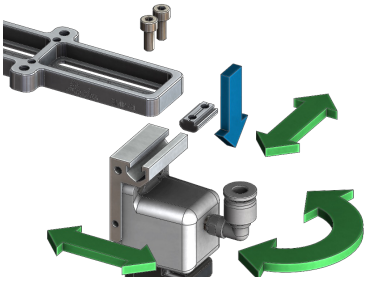




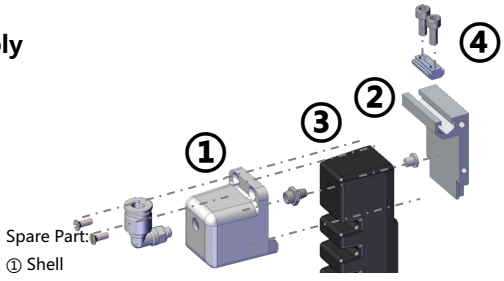


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



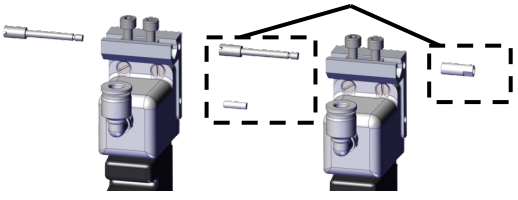
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

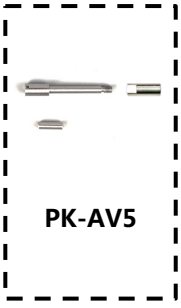
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

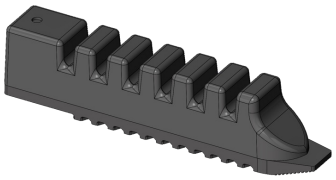
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

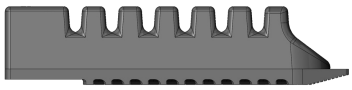
PK-AV5 Accessory Package (optional)





FM







Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A7T/FS3[P]	F-A7T/FS3[PAS]	F-A7T/FS3[H]	F-A7T/FS3[HAS]

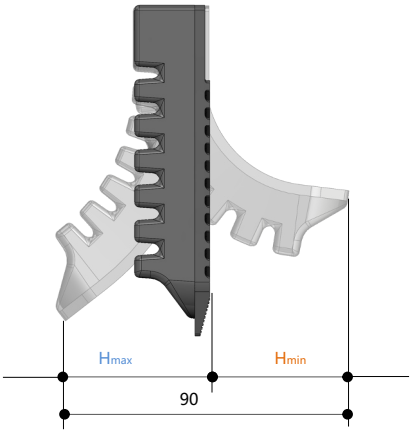
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
51	39	⚠ 120	220	62	51	27	⚠ 300	380	62

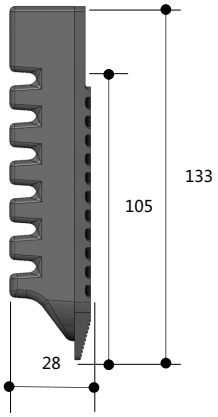
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

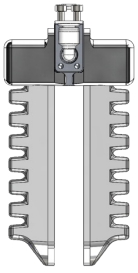
FM

Dimension Parameters

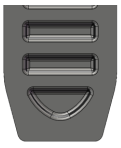







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

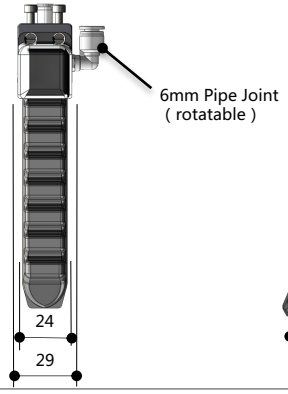


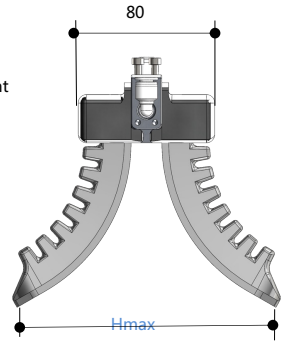

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A8V1/LS1[P]	FM-A8V1/LS1[PAS]	FM-A8V1/LS1[H]	FM-A8V1/LS1[HAS]

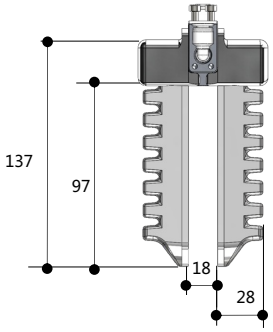
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger[g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger[g]	Weight [g]
0	108	⚠ 120	g 420	224	0	82	⚠ 300	g 560	224

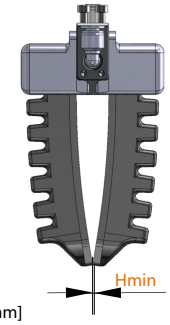
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



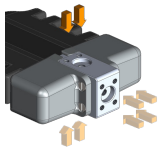


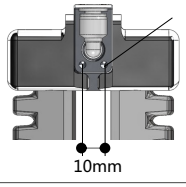


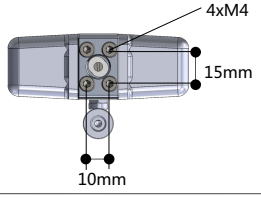


The measuring unit: [mm]

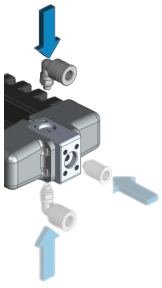
Fixation



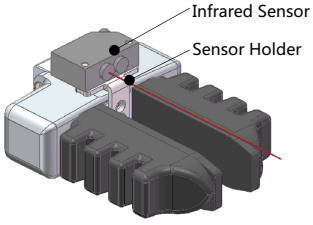




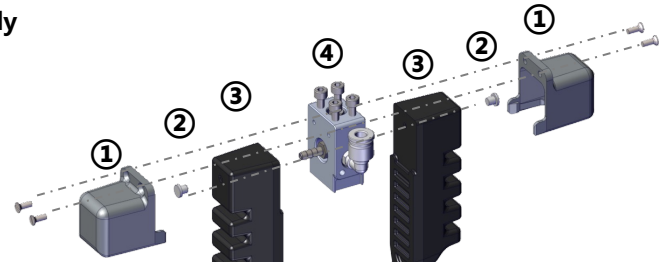
Air Intake



Sensor Installation

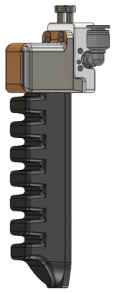


Assembly



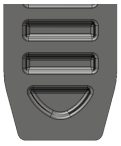
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

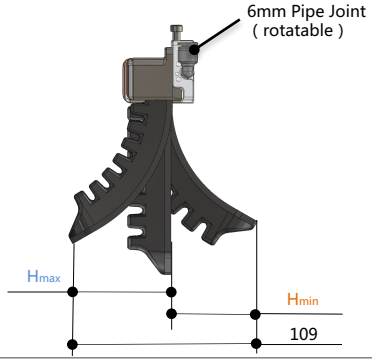


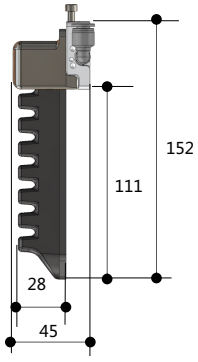

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A8V2/LS1[P]	FM-A8V2/LS1[PAS]	FM-A8V2/LS1[H]	FM-A8V2/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
64	45	⚠ 120	210	127	64	32	⚠ 300	280	127

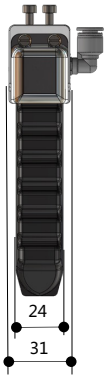
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

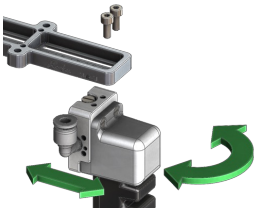




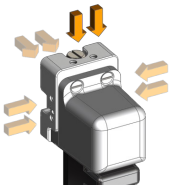
The measuring unit: [mm]

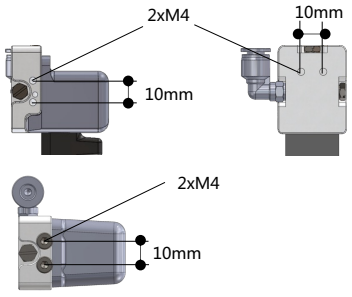


Pose Adjustment

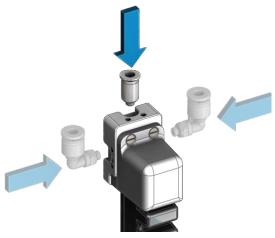


Fixation

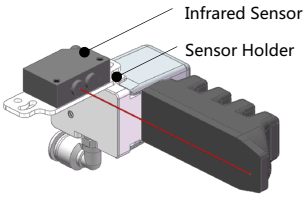




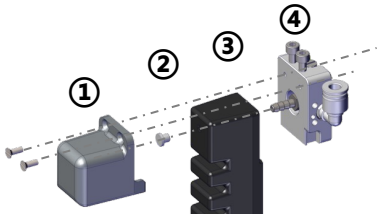
Air Intake



Sensor Installation

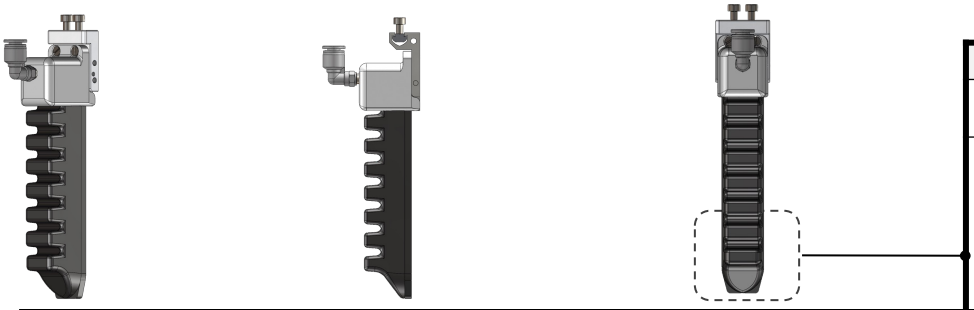


Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM



Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

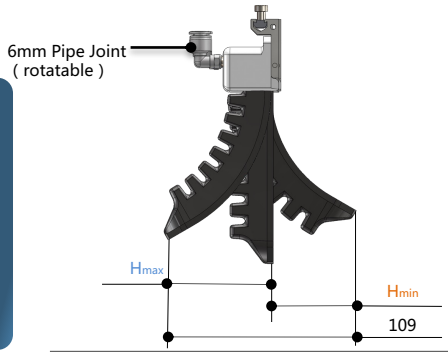


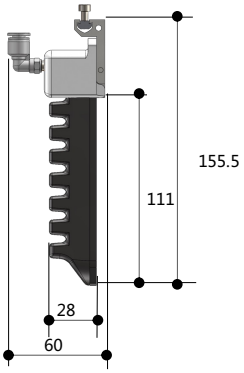
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A8V3/LS1[P]	FM-A8V3/LS1[PAS]	FM-A8V3/LS1[H]	FM-A8V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
64	45	⚠ 120	210	112	64	32	⚠ 300	280	112

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



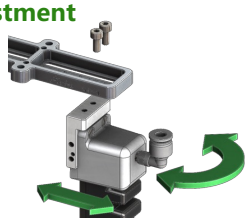




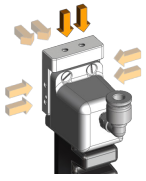
The measuring unit: [mm]

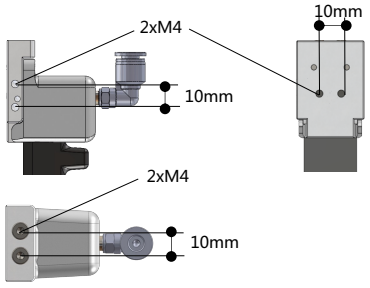
FM

Pose Adjustment



Fixation

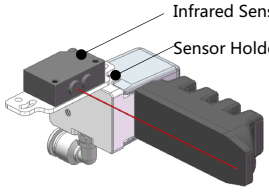




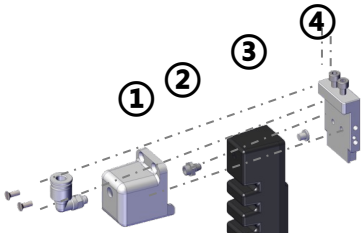
Air Intake



Sensor Installation

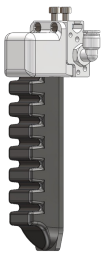


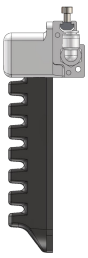
Assembly

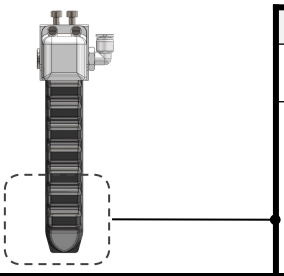


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

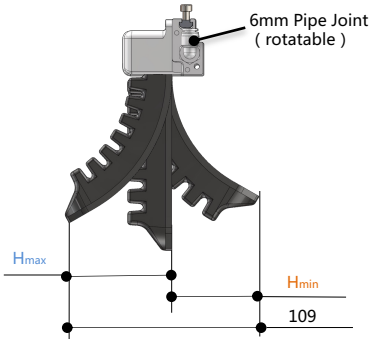


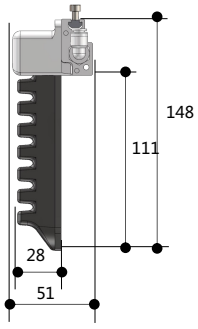
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A8V4/LS1[P]	FM-A8V4/LS1[PAS]	FM-A8V4/LS1[H]	FM-A8V4/LS1[HAS]

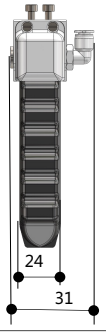
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
64	45	⚠ 120	210	133	64	32	⚠ 300	280	133

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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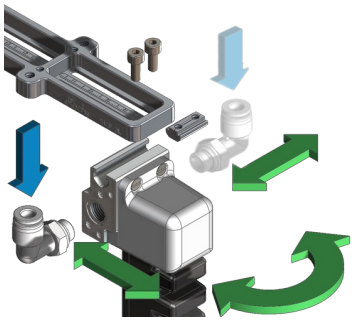




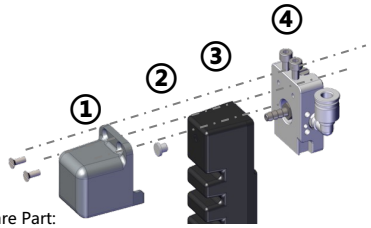


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



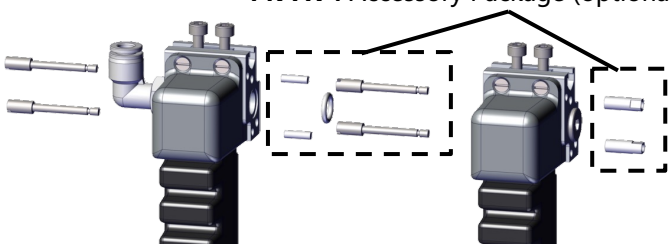
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

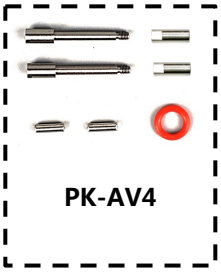
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

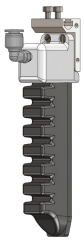
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

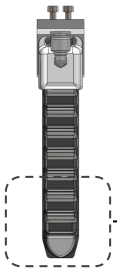
PK-AV4 Accessory Package (optional)



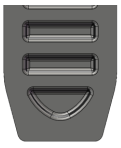


FM





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

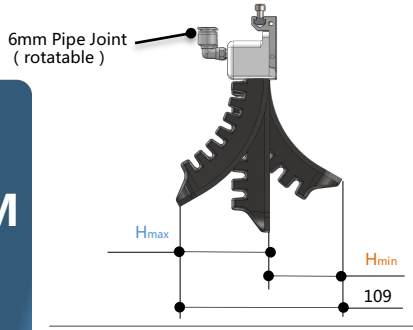


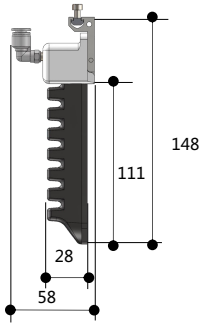

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-A8V5/LS1[P]	FM-A8V5/LS1[PAS]	FM-A8V5/LS1[H]	FM-A8V5/LS1[HAS]

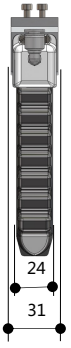
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
64	45	120	210	111	64	32	300	280	111

Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



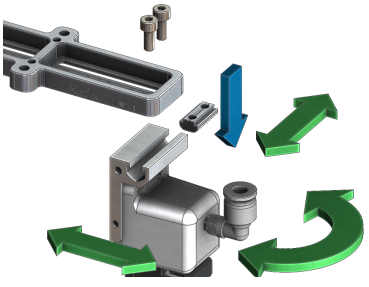




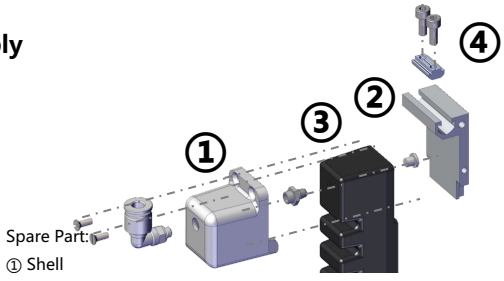
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



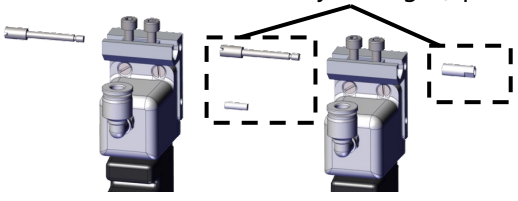
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

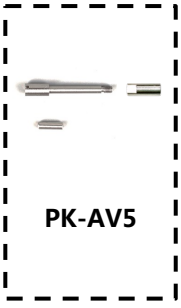
Series combination:

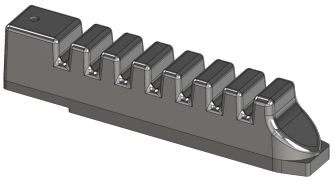
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

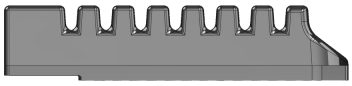
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-AV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-A8T/LS1[P]	F-A8T/LS1[PAS]	F-A8T/LS1[H]	F-A8T/LS1[HAS]

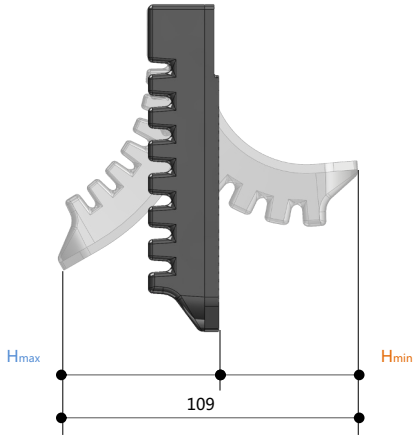
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
64	45	⚠ 120	210	69	64	32	⚠ 300	280	69

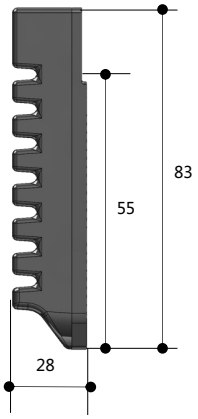
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

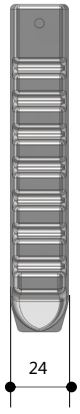
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

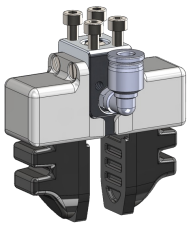
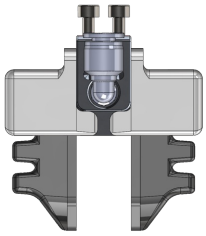
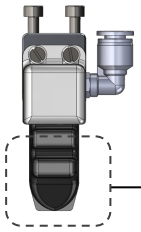
FM

Dimension Parameters

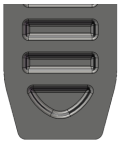






Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



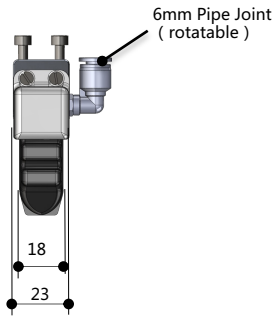

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V1/LS1[P]	FM-B3V1/LS1[PAS]	FM-B3V1/LS1[H]	FM-B3V1/LS1[HAS]

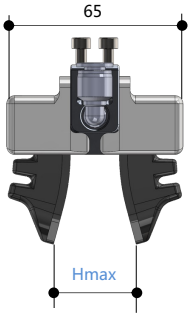
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	38	⚠ 120	340	77	0	30	⚠ 260	480	77

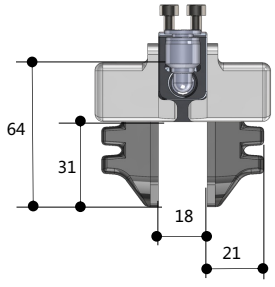
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

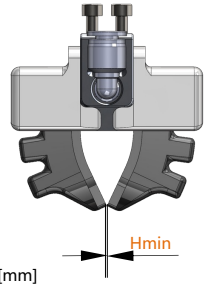
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



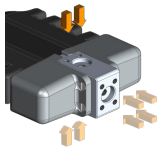
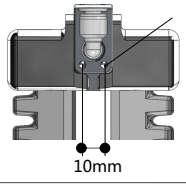


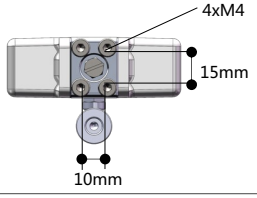




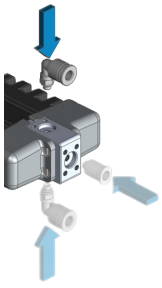
The measuring unit: [mm]

Fixation

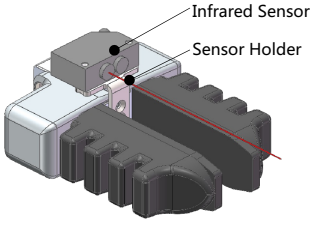





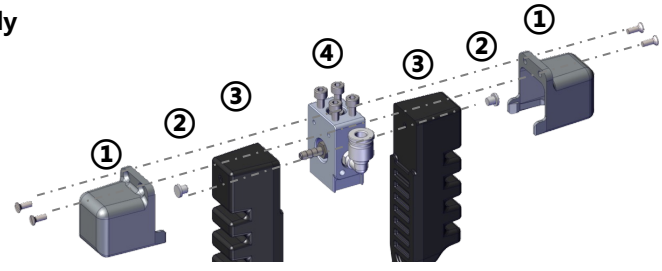
Air Intake



Sensor Installation

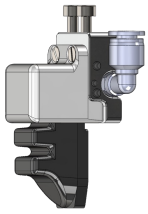
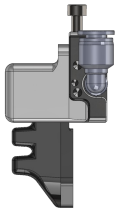
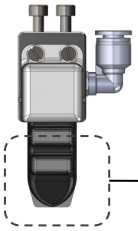


Assembly

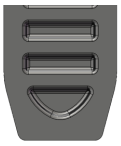


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

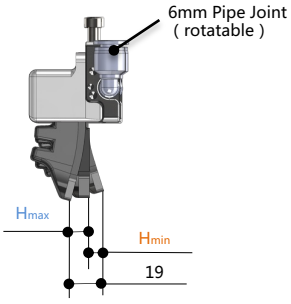


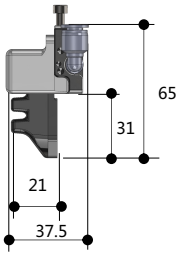

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V2/LS1[P]	FM-B3V2/LS1[PAS]	FM-B3V2/LS1[H]	FM-B3V2/LS1[HAS]

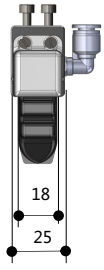
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	52	9	6	⚠ 260	240	52

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



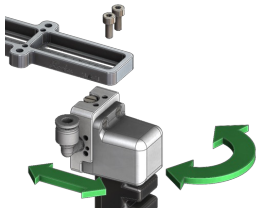




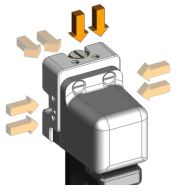
The measuring unit: [mm]

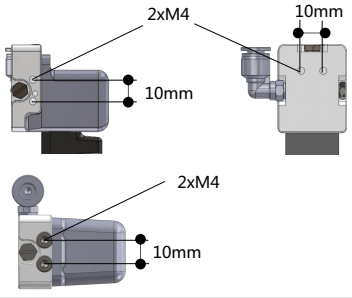
FM

Pose Adjustment

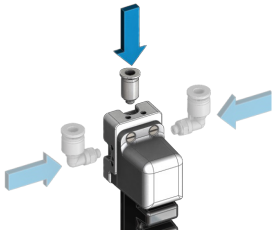


Fixation

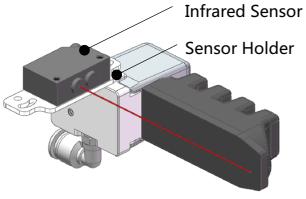




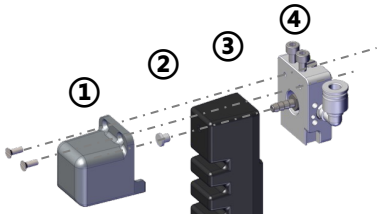
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

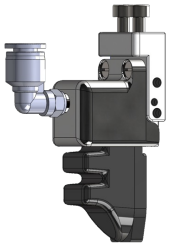
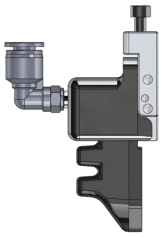
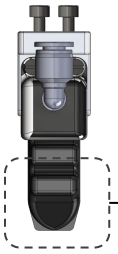
Finger Module

FM -B3V3 / LS1

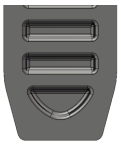
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

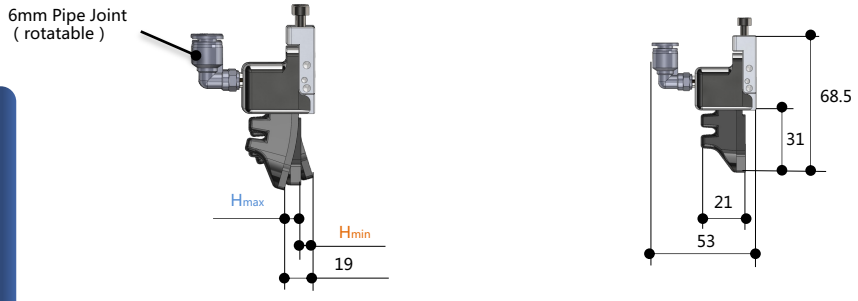



Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V3/LS1[P]	FM-B3V3/LS1[PAS]	FM-B3V3/LS1[H]	FM-B3V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	43	9	6	⚠ 260	240	43

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

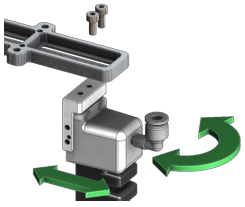
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



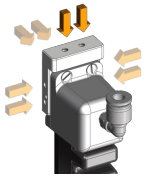
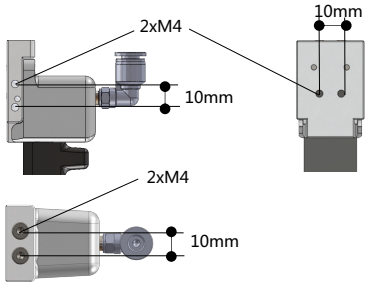
The measuring unit: [mm]

FM

Pose Adjustment



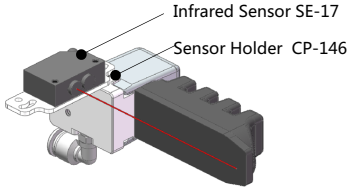
Fixation

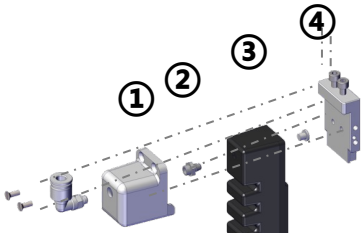
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

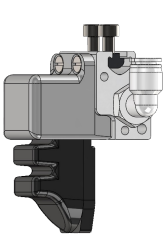
Finger Module

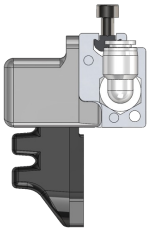
FM -B3V4 / LS1

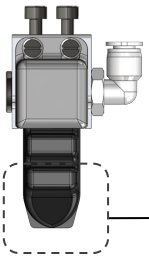
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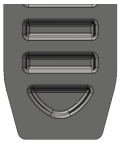
Scan to watch videos







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



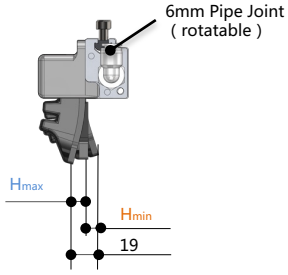


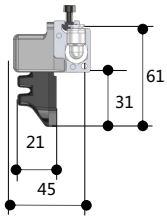
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V4/LS1[P]	FM-B3V4/LS1[PAS]	FM-B3V4/LS1[H]	FM-B3V4/LS1[HAS]

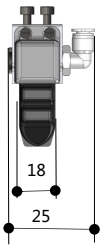
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	61	9	6	⚠ 260	240	61

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



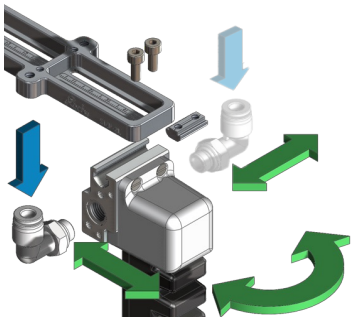




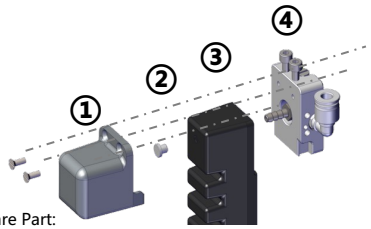
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



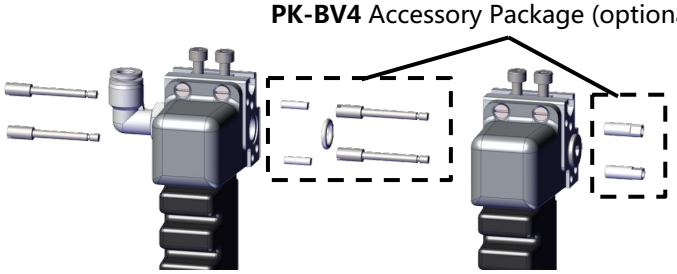
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





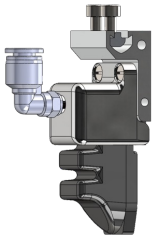
Finger Module

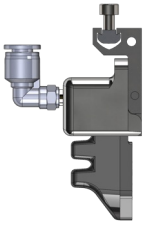
FM -B3V5 / LS1

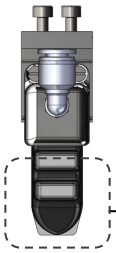
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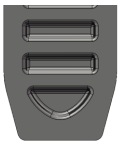
Scan to watch videos







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



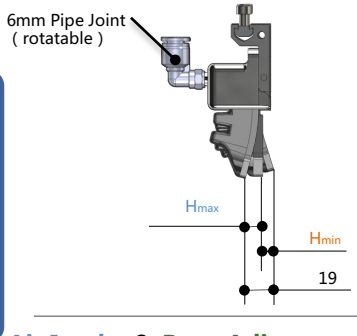


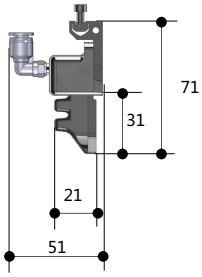
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V5/LS1[P]	FM-B3V5/LS1[PAS]	FM-B3V5/LS1[H]	FM-B3V5/LS1[HAS]

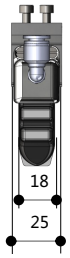
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	44	9	6	⚠ 260	240	44

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



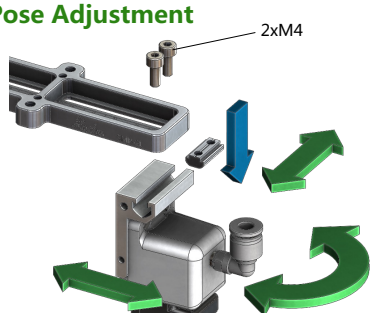




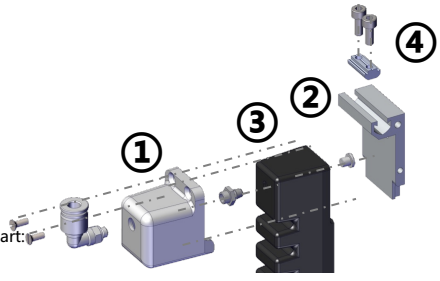
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



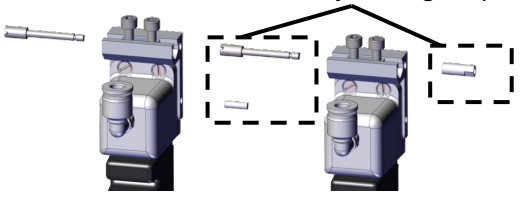
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

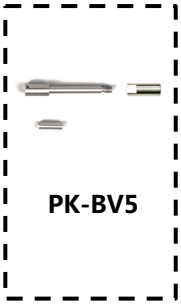
Series combination:

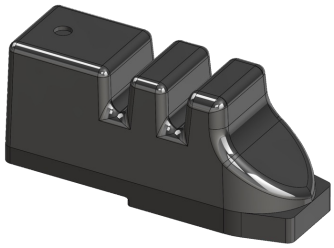
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

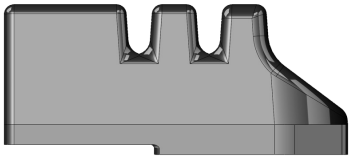
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B3T/LS1[P]	F-B3T/LS1[PAS]	F-B3T/LS1[H]	F-B3T/LS1[HAS]

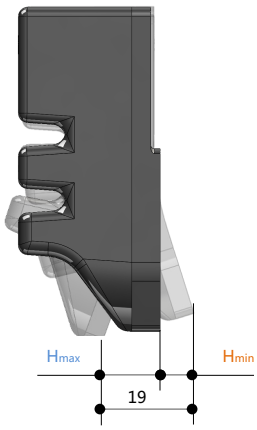
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	g 170	11	9	6	⚠ 260	g 240	11

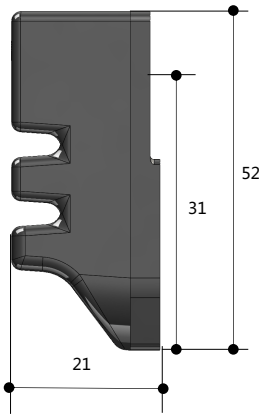
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







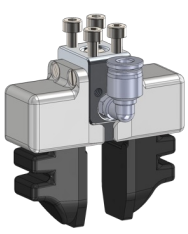
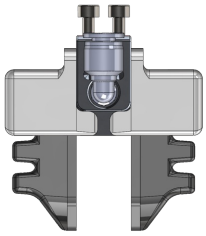
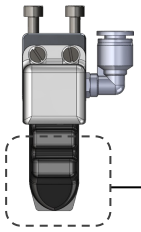
Finger Module

FM -B3V1 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.



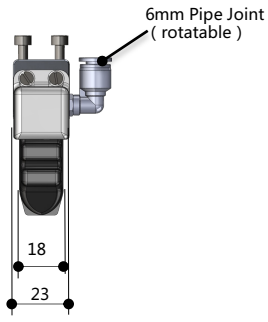
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V1/LF1[P]	FM-B3V1/LF1[PAS]	FM-B3V1/LF1[H]	FM-B3V1/LF1[HAS]

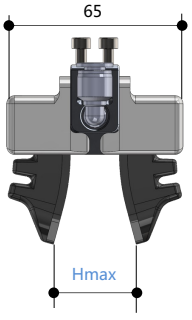
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	38	⚠ 120	340	77	0	30	⚠ 260	480	77

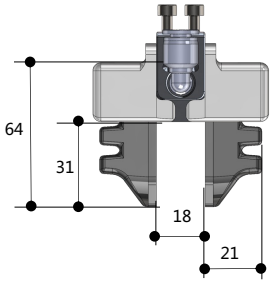
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

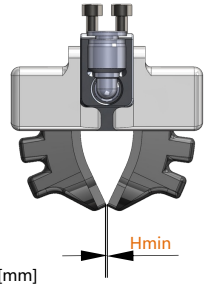
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



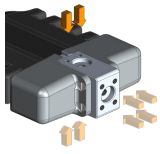
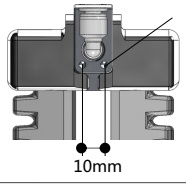


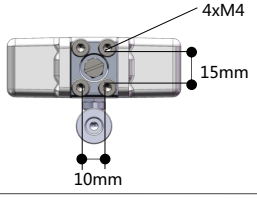




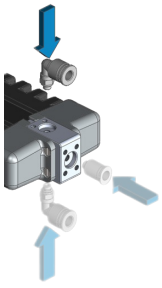
The measuring unit: [mm]

Fixation

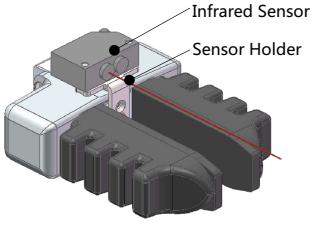





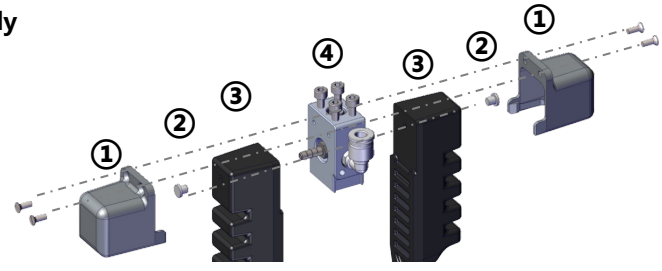
Air Intake



Sensor Installation

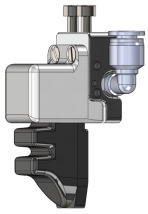


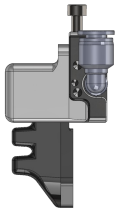
Assembly

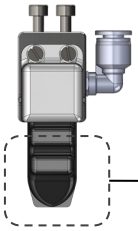


Spare Part:

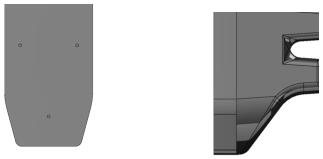
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

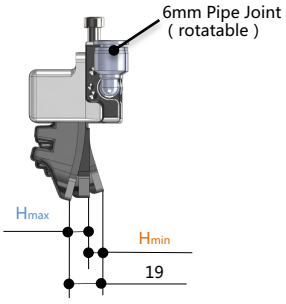


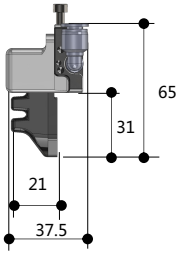
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V2/LF1[P]	FM-B3V2/LF1[PAS]	FM-B3V2/LF1[H]	FM-B3V2/LF1[HAS]

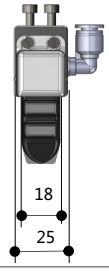
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	52	9	6	⚠ 260	240	52

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



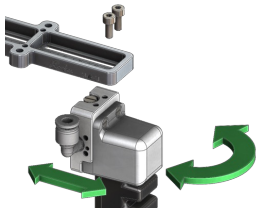




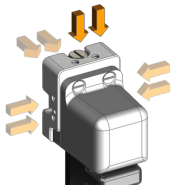
The measuring unit: [mm]

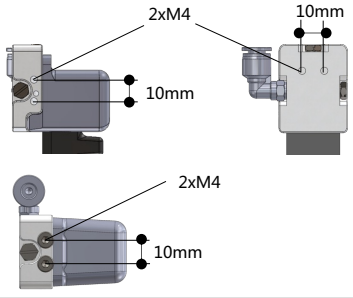
FM

Pose Adjustment

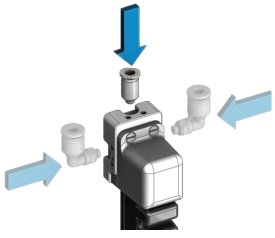


Fixation

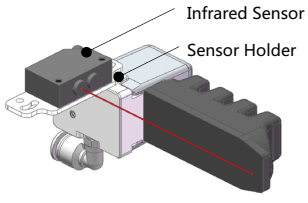




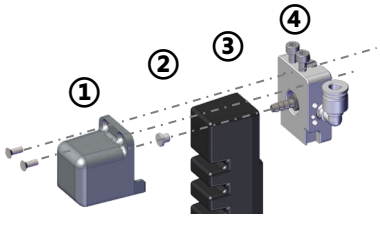
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

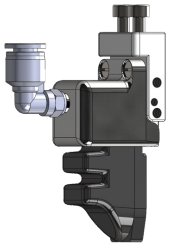
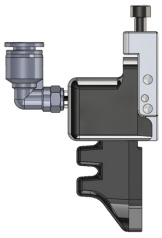
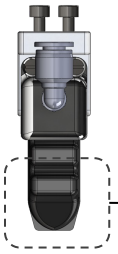
Finger Module

FM -B3V3 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

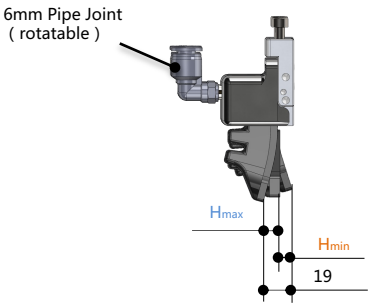


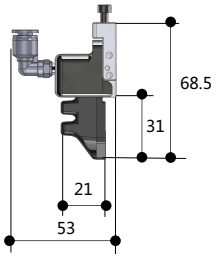
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V3/LF1[P]	FM-B3V3/LF1[PAS]	FM-B3V3/LF1[H]	FM-B3V3/LF1[HAS]

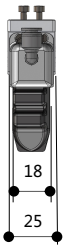
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	43	9	6	⚠ 260	240	43

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



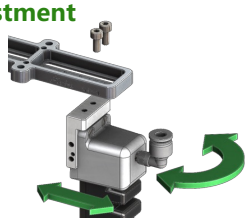




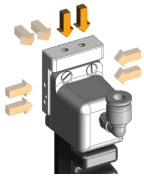
The measuring unit: [mm]

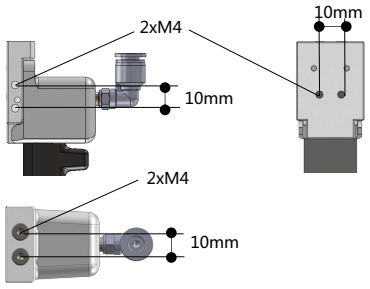
FM

Pose Adjustment



Fixation

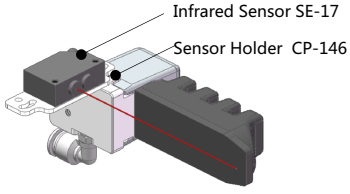




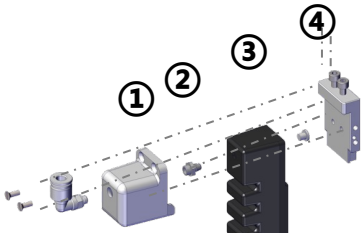
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

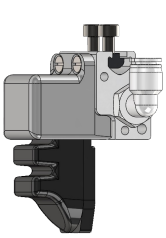
Finger Module

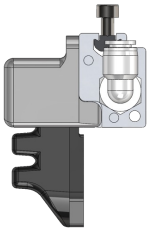
FM -B3V4 / LF1

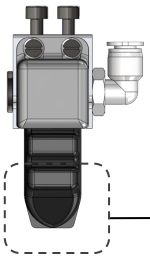
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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

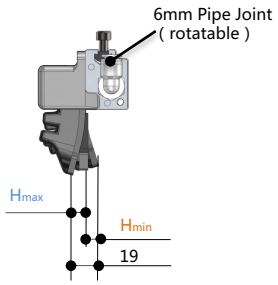


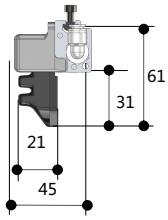
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V4/LF1[P]	FM-B3V4/LF1[PAS]	FM-B3V4/LF1[H]	FM-B3V4/LF1[HAS]

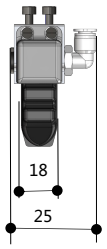
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	61	9	6	⚠ 260	240	61

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



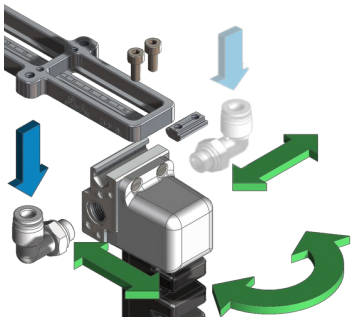




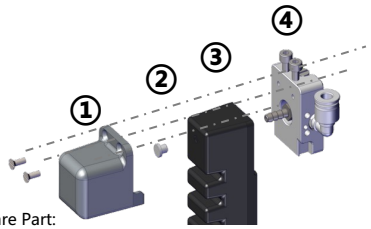
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



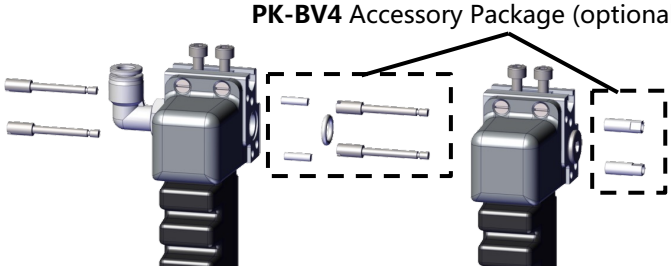
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





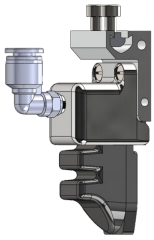
Finger Module

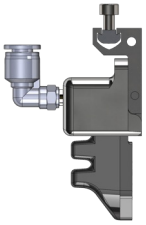
FM -B3V5 / LF1

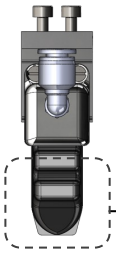
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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

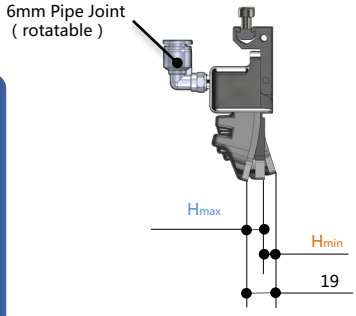


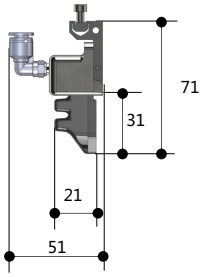
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B3V5/LF1[P]	FM-B3V5/LF1[PAS]	FM-B3V5/LF1[H]	FM-B3V5/LF1[HAS]

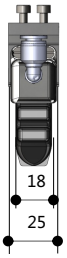
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	170	44	9	6	⚠ 260	240	44

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



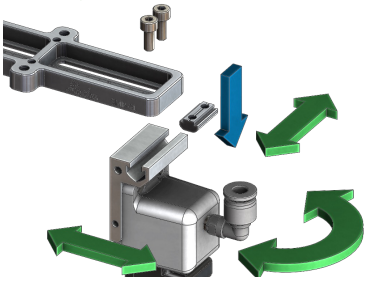




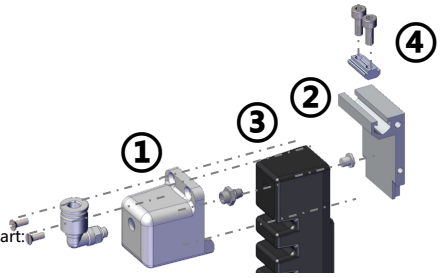
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



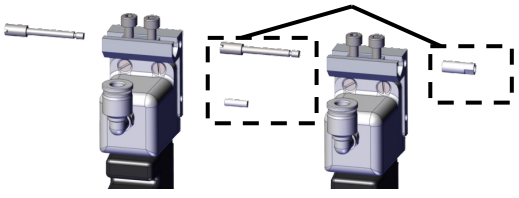
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

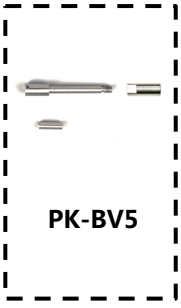
Series combination:

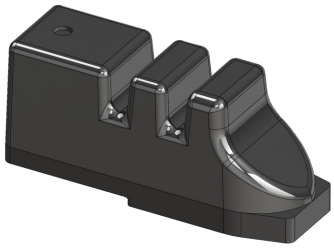
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

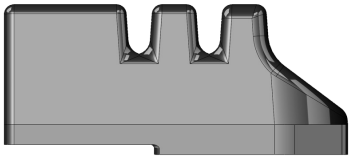
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B3T/LF1[P]	F-B3T/LF1[PAS]	F-B3T/LF1[H]	F-B3T/LF1[HAS]

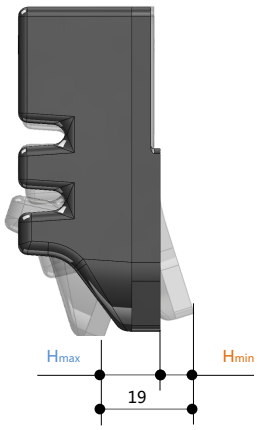
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
9	10	⚠ 120	g 170	11	9	6	⚠ 260	g 240	11

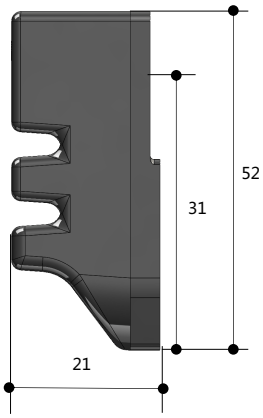
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







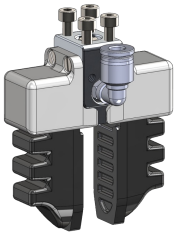
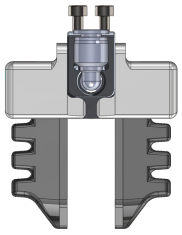
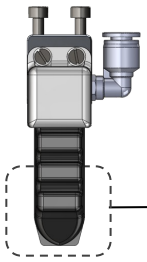
Finger Module

FM -B4V1 / LS1

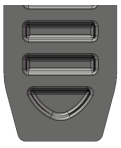
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



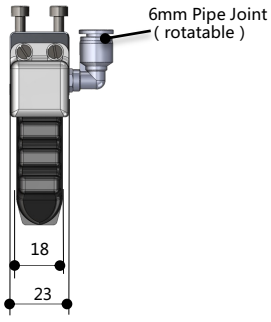

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V1/LS1[P]	FM-B4V1/LS1[PAS]	FM-B4V1/LS1[H]	FM-B4V1/LS1[HAS]

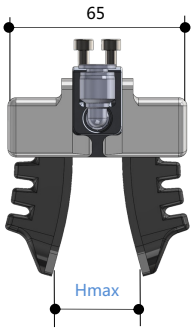
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	44	⚠ 120	400	85	0	38	⚠ 260	460	85

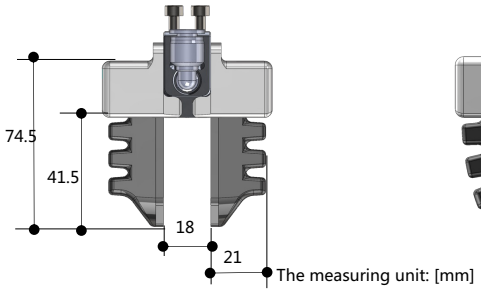
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

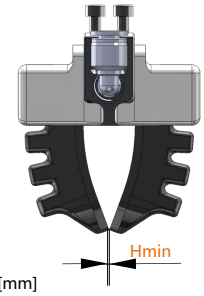
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

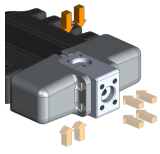
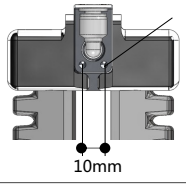


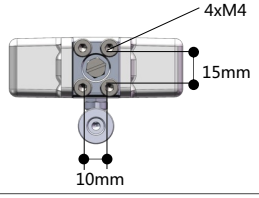




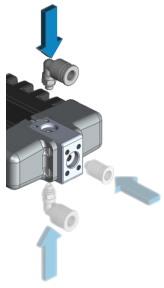


Fixation

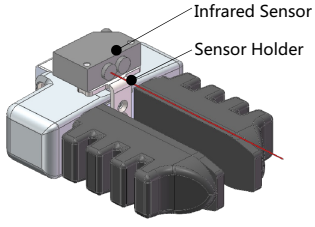





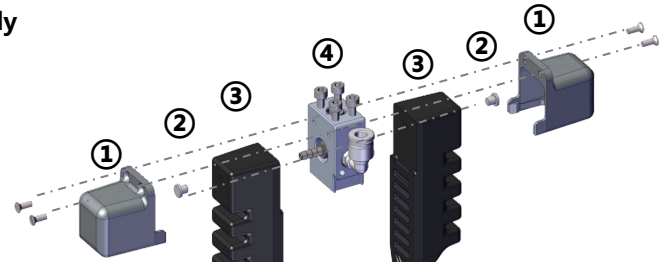
Air Intake



Sensor Installation

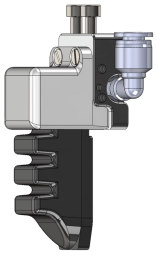
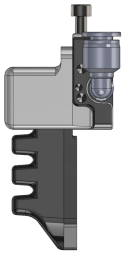
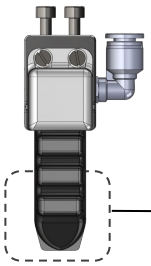


Assembly

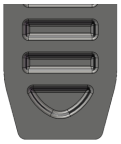


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

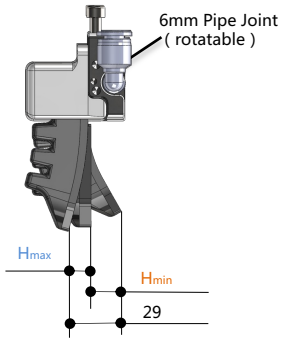


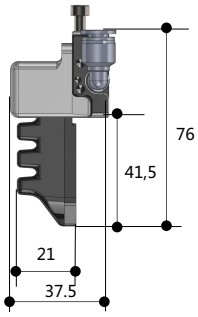

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V2/LS1[P]	FM-B4V2/LS1[PAS]	FM-B4V2/LS1[H]	FM-B4V2/LS1[HAS]

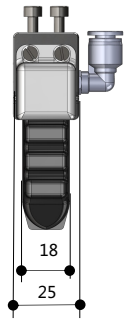
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	56	16	10	⚠ 260	240	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



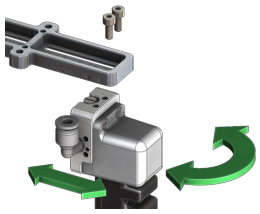




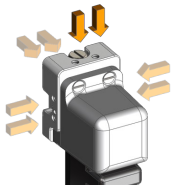
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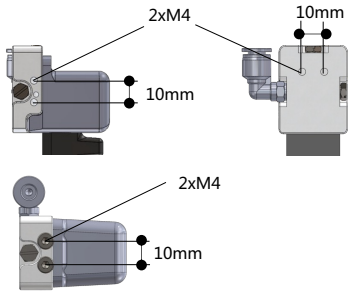
FM

Pose Adjustment

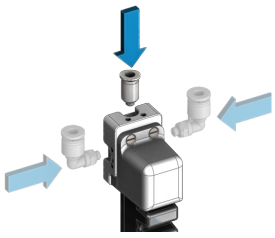


Fixation

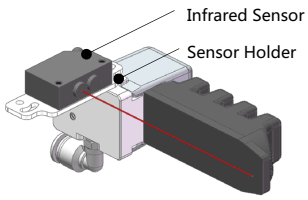




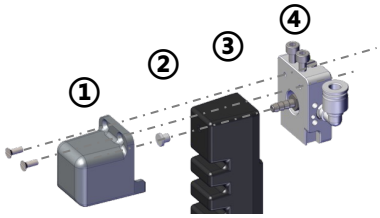
Air Intake



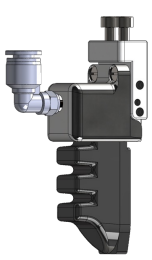
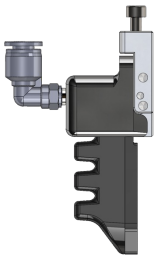
Sensor Installation



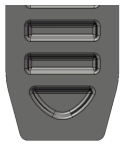
Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

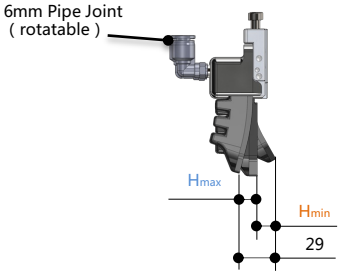


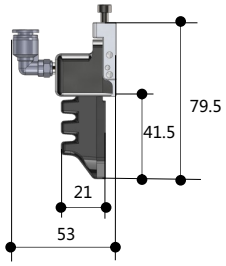

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V3/LS1[P]	FM-B4V3/LS1[PAS]	FM-B4V3/LS1[H]	FM-B4V3/LS1[HAS]

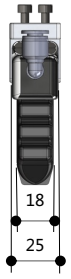
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	47	16	10	⚠ 260	240	47

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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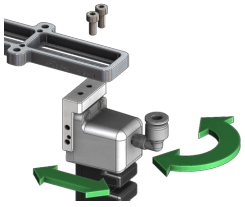




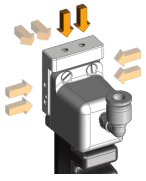
The measuring unit: [mm]

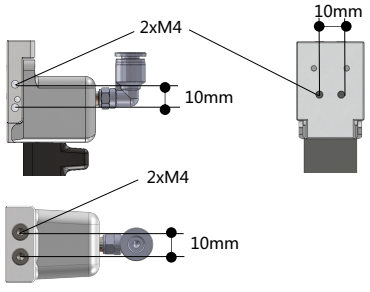
FM

Pose Adjustment



Fixation

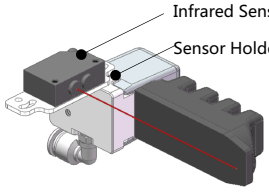




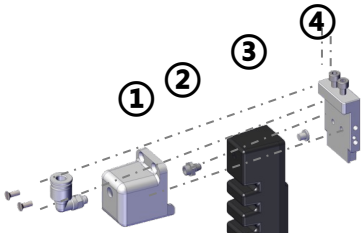
Air Intake



Sensor Installation

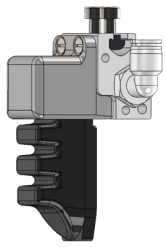


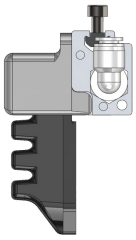
Assembly

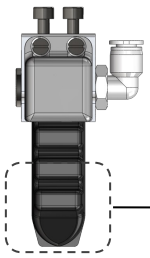


Spare Part:

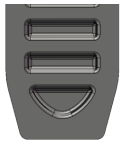
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



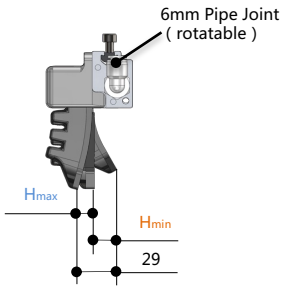


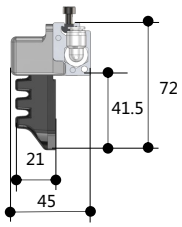
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V4/LS1[P]	FM-B4V4/LS1[PAS]	FM-B4V4/LS1[H]	FM-B4V4/LS1[HAS]

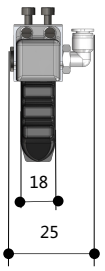
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	65	16	10	⚠ 260	240	65

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



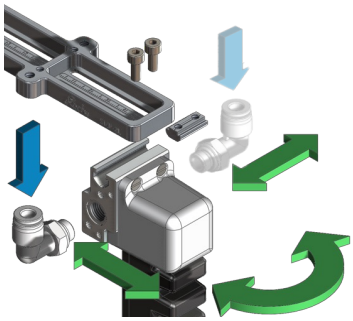




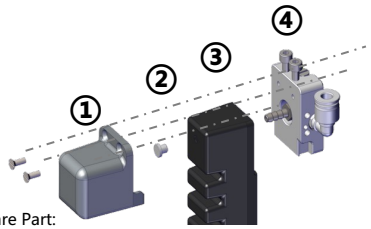
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



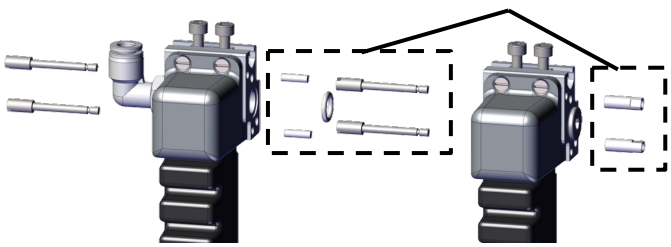
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

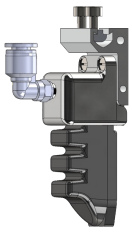
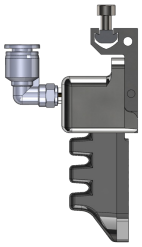
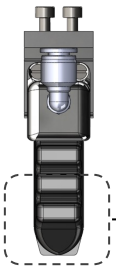
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

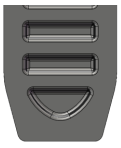
PK-BV4 Accessory Package (optional)





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

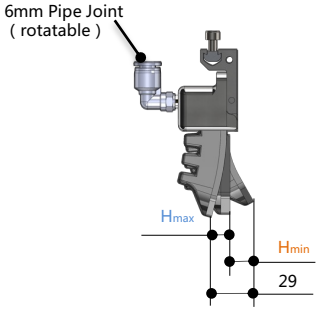


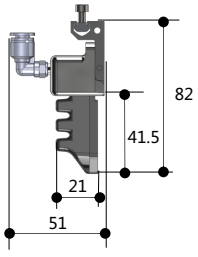

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V5/LS1[P]	FM-B4V5/LS1[PAS]	FM-B4V5/LS1[H]	FM-B4V5/LS1[HAS]

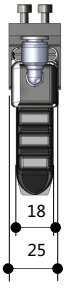
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	48	16	10	⚠ 260	240	48

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



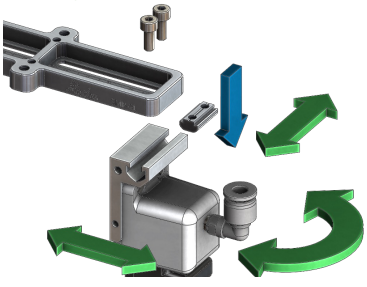




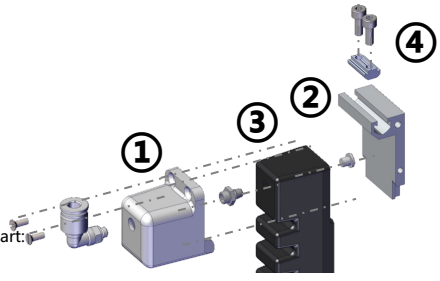
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



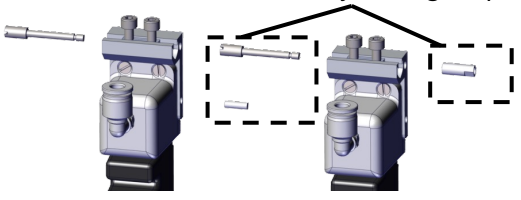
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

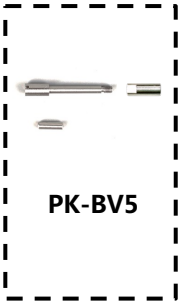
Series combination:

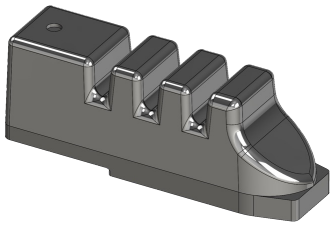
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

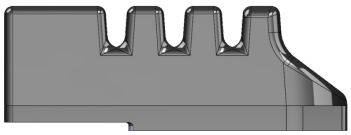
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B4T/LS1[P]	F-B4T/LS1[PAS]	F-B4T/LS1[H]	F-B4T/LS1[HAS]

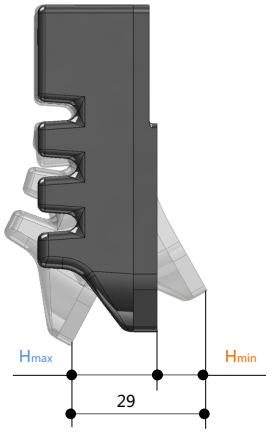
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	16	16	10	⚠260	240	16

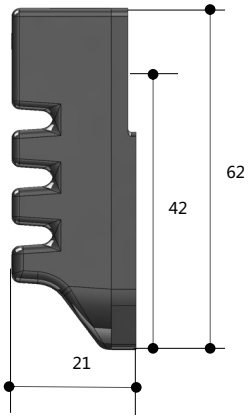
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

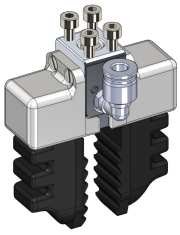
FM

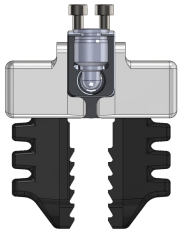
Dimension Parameters

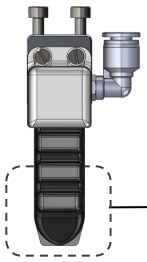




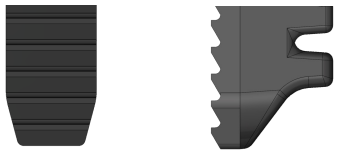








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.



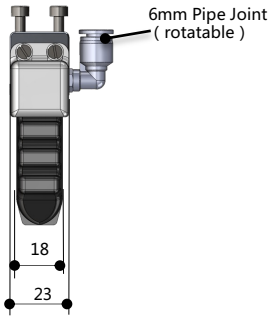
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V1/LS8[P]	FM-B4V1/LS8[PAS]	FM-B4V1/LS8[H]	FM-B4V1/LS8[HAS]

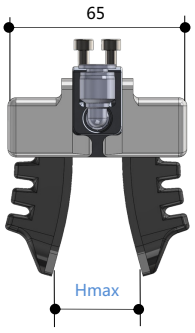
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	44	⚠ 120	400	85	0	38	⚠ 260	480	85

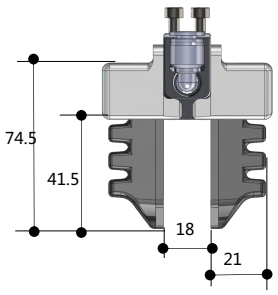
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

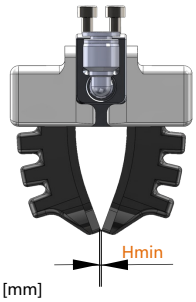
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



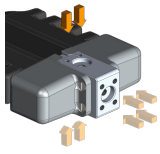


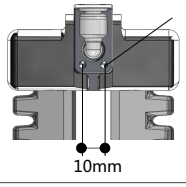


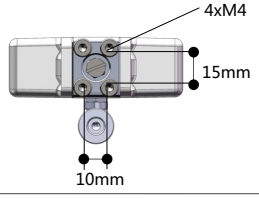


The measuring unit: [mm]

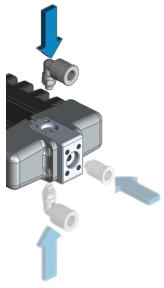
Fixation



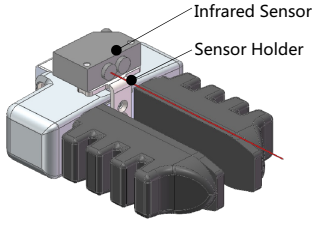




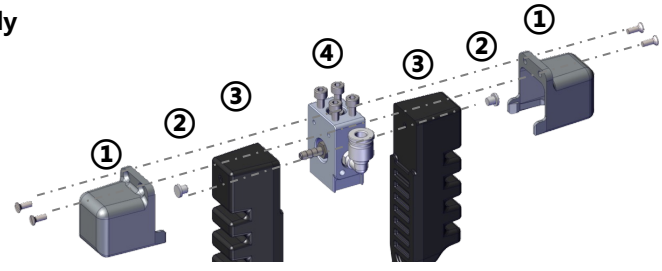
Air Intake



Sensor Installation

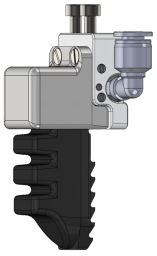


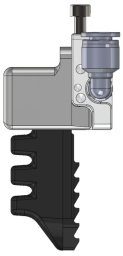
Assembly

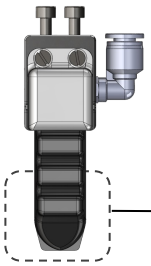


Spare Part:

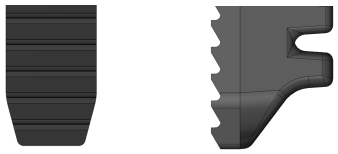
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

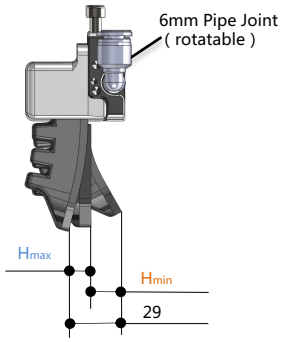


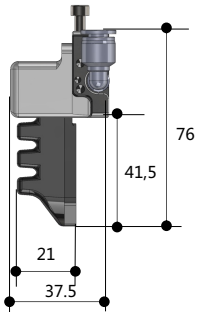
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V2/LS8[P]	FM-B4V2/LS8[PAS]	FM-B4V2/LS8[H]	FM-B4V2/LS8[HAS]

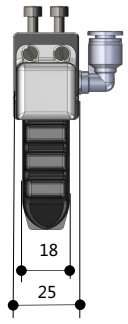
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	56	16	10	⚠260	240	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



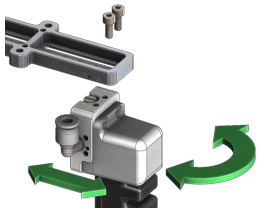




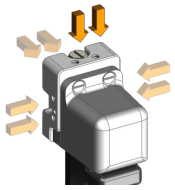
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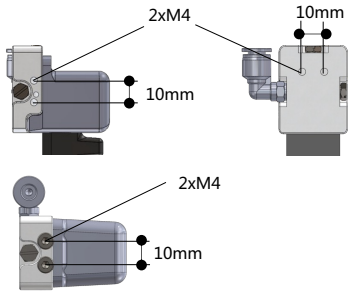
FM

Pose Adjustment

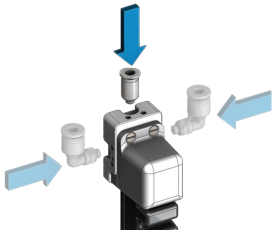


Fixation

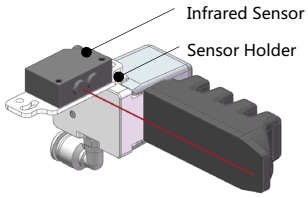




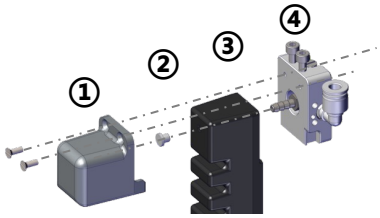
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

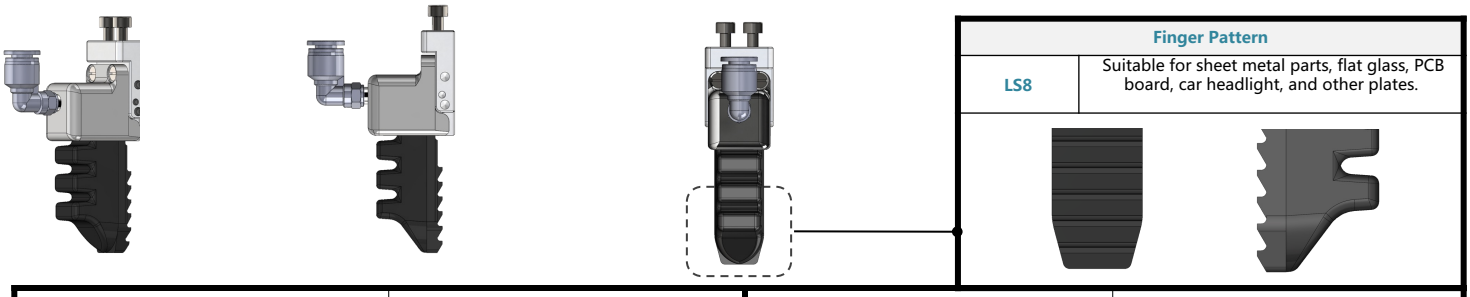
Finger Module

FM -B4V3 / LS8

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Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

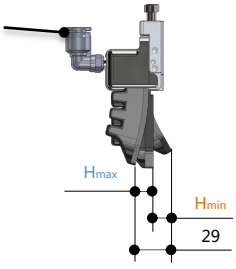
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V3/LS8[P]	FM-B4V3/LS8[PAS]	FM-B4V3/LS8[H]	FM-B4V3/LS8[HAS]

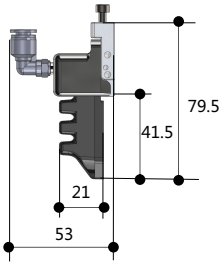
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	47	16	10	⚠ 260	240	47

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)



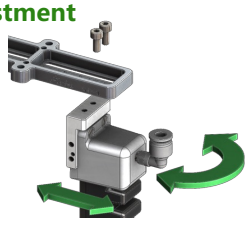




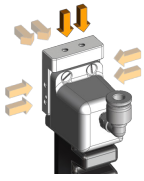
The measuring unit: [mm]

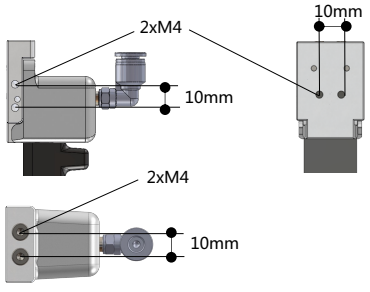
FM

Pose Adjustment



Fixation

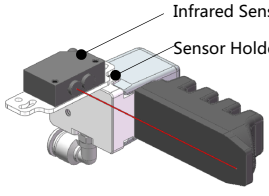




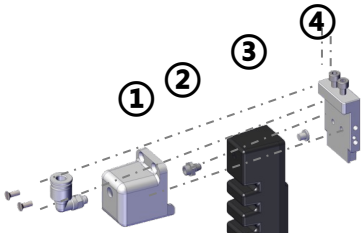
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

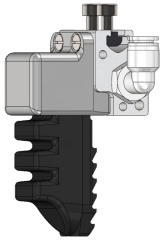
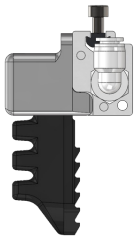
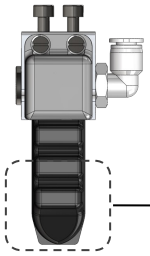
Finger Module

FM -B4V4 / LS8

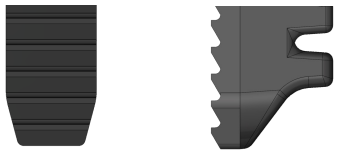
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Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

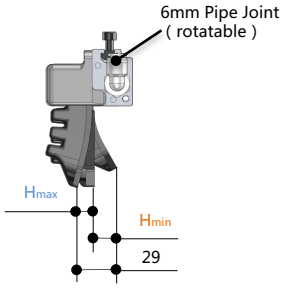


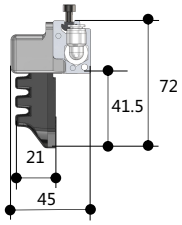
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V4/LS8[P]	FM-B4V4/LS8[PAS]	FM-B4V4/LS8[H]	FM-B4V4/LS8[HAS]

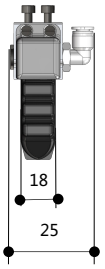
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	65	16	10	⚠ 260	240	65

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



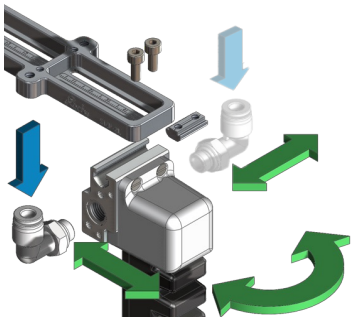




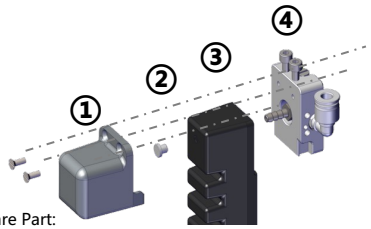
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



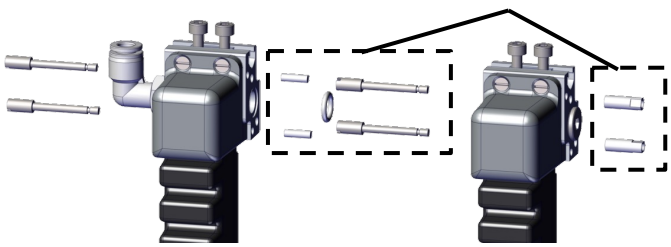
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

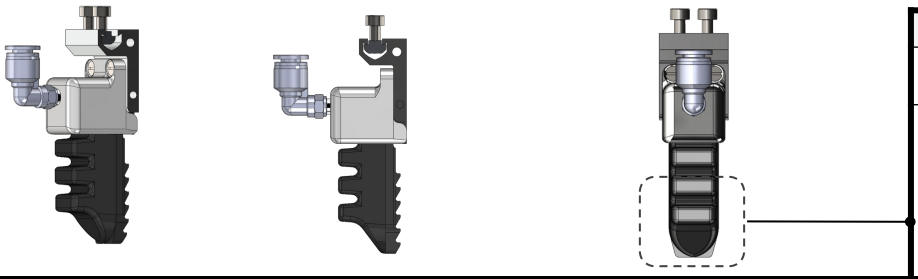
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

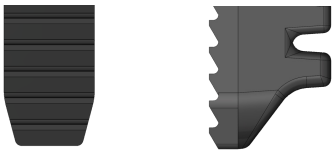
PK-BV4 Accessory Package (optional)







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

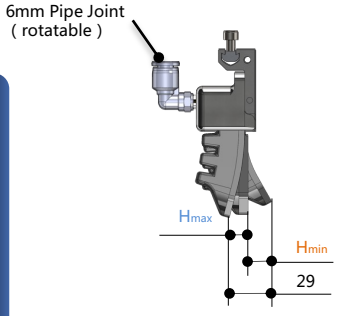


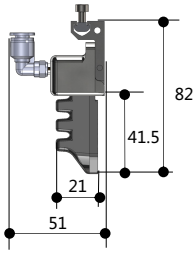
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V5/LS8[P]	FM-B4V5/LS8[PAS]	FM-B4V5/LS8[H]	FM-B4V5/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	48	16	10	⚠ 260	240	48

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



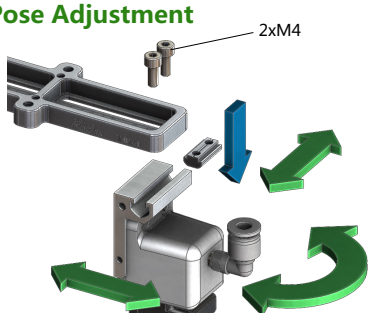




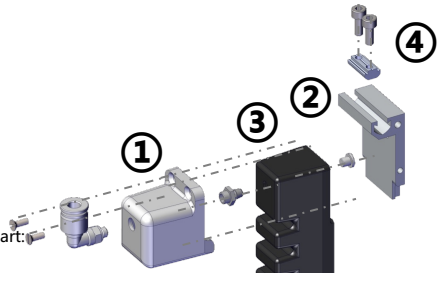
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



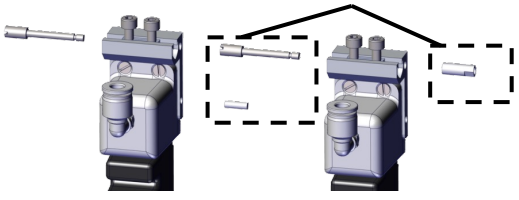
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

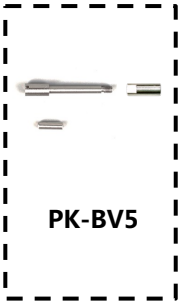
Series combination:

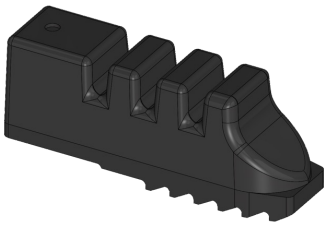
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

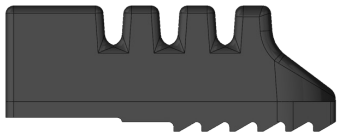
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B4T/LS8[P]	F-B4T/LS8[PAS]	F-B4T/LS8[H]	F-B4T/LS8[HAS]

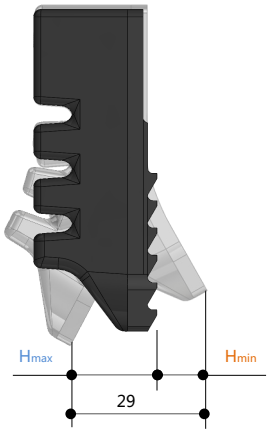
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	16	16	10	⚠260	240	16

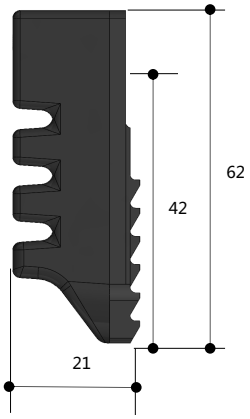
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







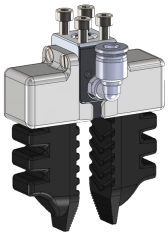
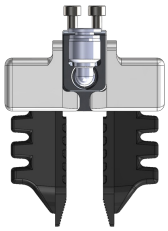
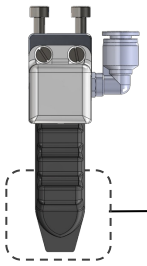
Finger Module

FM -B4V1 / FS3

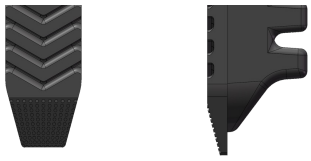
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Finger Pattern	
FS3	Suitable for soft fabric products.



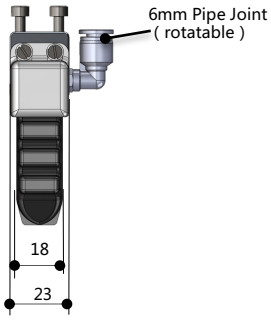
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V1/FS3[P]	FM-B4V1/FS3[PAS]	FM-B4V1/FS3[H]	FM-B4V1/FS3[HAS]

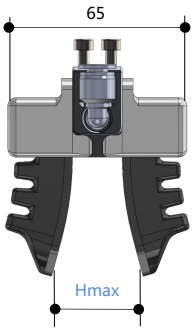
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	44	⚠ 120	400	85	0	38	⚠ 260	480	85

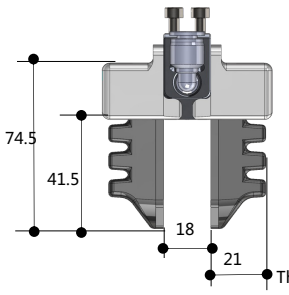
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

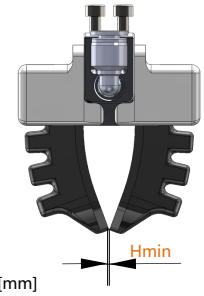
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

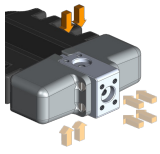


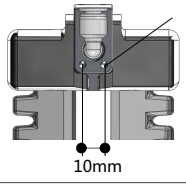


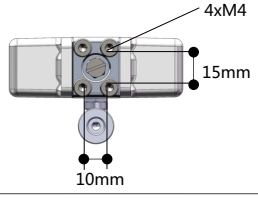




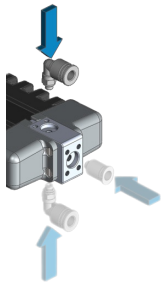
Fixation



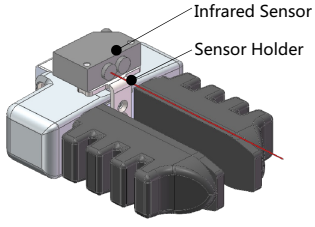




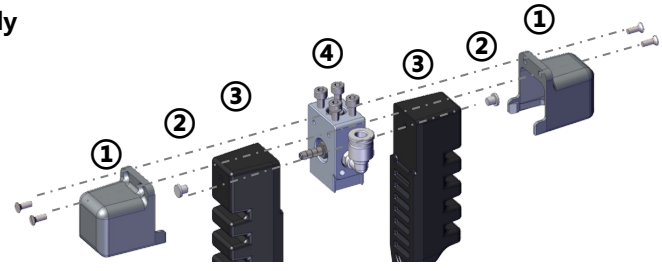
Air Intake



Sensor Installation

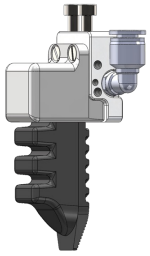


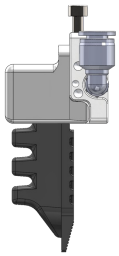
Assembly

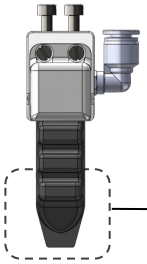


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

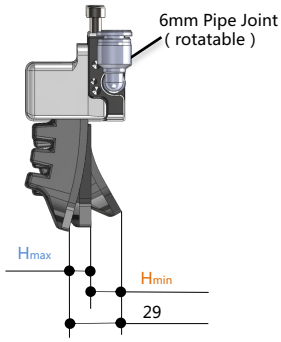


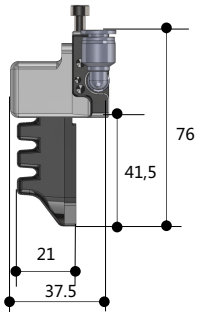
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V2/FS3[P]	FM-B4V2/FS3[PAS]	FM-B4V2/FS3[H]	FM-B4V2/FS3[HAS]

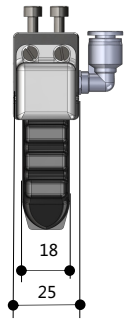
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	56	16	10	⚠260	240	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



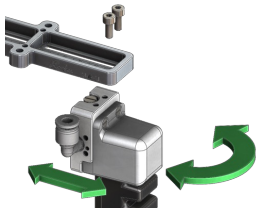




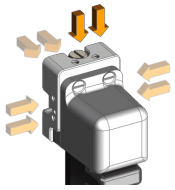
The measuring unit: [mm]

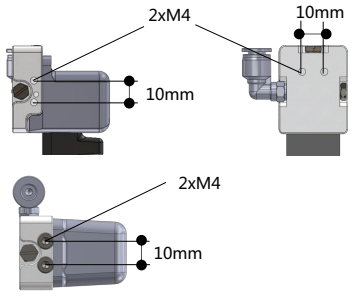
FM

Pose Adjustment

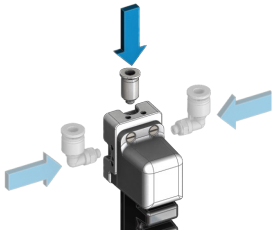


Fixation

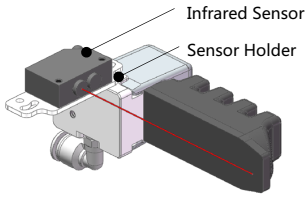




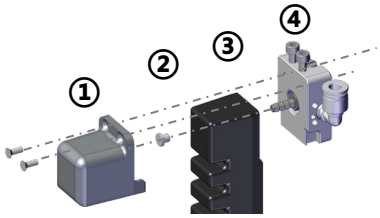
Air Intake



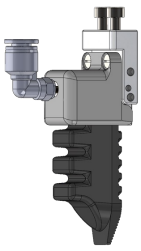
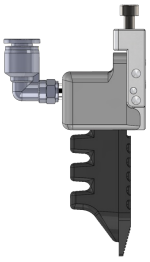
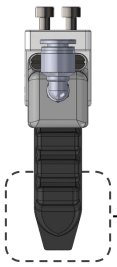
Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

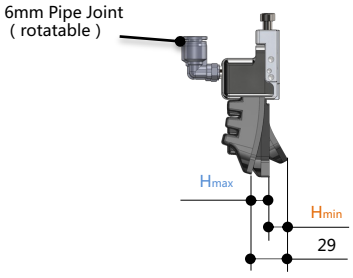


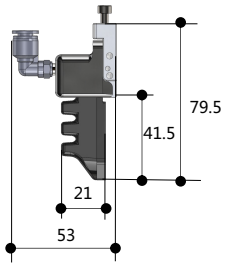
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V3/FS3[P]	FM-B4V3/FS3[PAS]	FM-B4V3/FS3[H]	FM-B4V3/FS3[HAS]

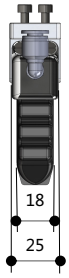
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	47	16	10	⚠260	240	47

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

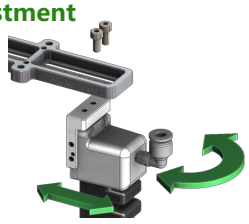




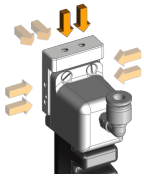


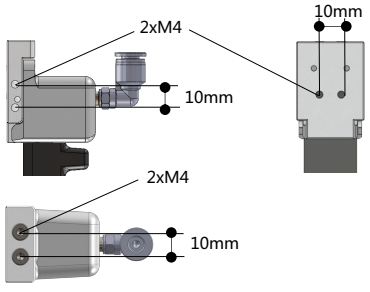
The measuring unit: [mm]

Pose Adjustment



Fixation

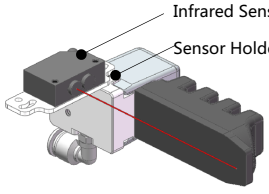




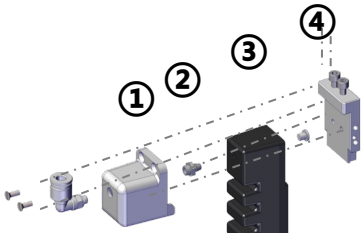
Air Intake



Sensor Installation

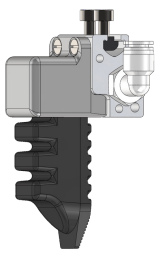


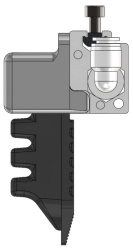
Assembly

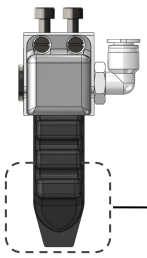


Spare Part:

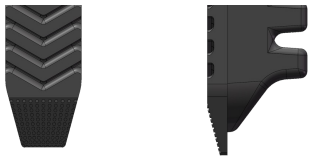
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

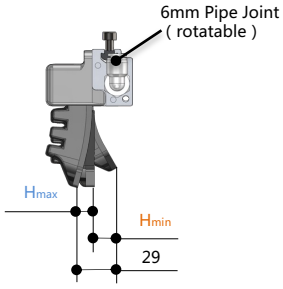


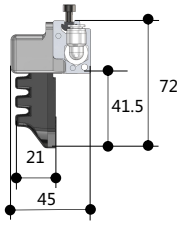
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V4/FS3[P]	FM-B4V4/FS3[PAS]	FM-B4V4/FS3[H]	FM-B4V4/FS3[HAS]

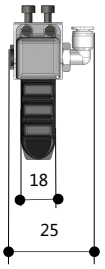
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	65	16	10	⚠260	240	65

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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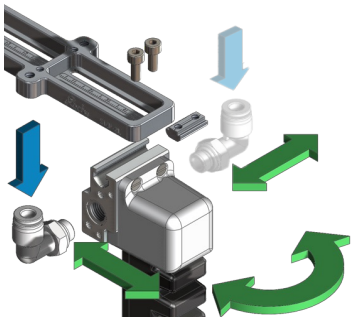




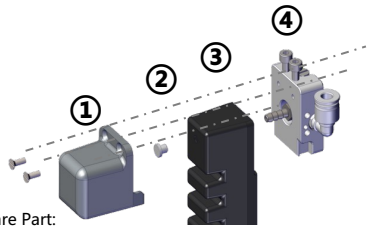
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



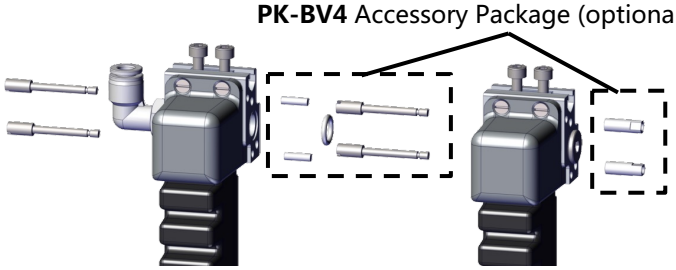
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





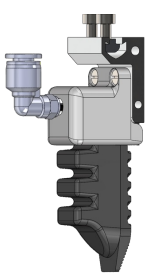
Finger Module

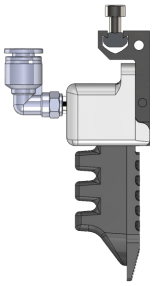
FM -B4V5 / FS3

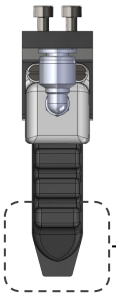
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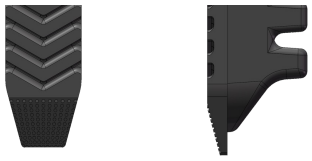
Scan to watch videos







Finger Pattern	
FS3	Suitable for soft fabric products.

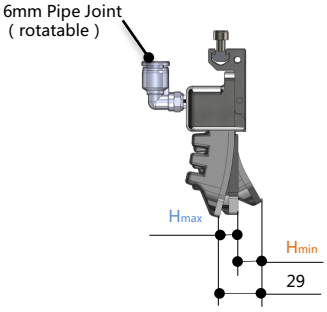


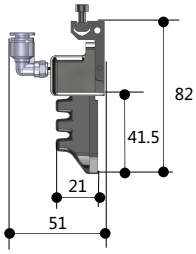
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V5/FS3[P]	FM-B4V5/FS3[PAS]	FM-B4V5/FS3[H]	FM-B4V5/FS3[HAS]

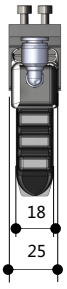
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	48	16	10	⚠260	240	48

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



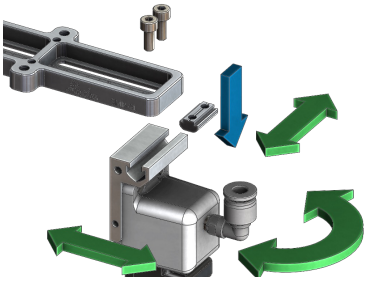




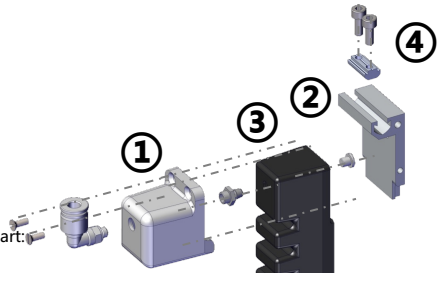
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



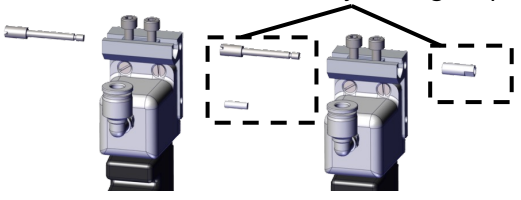
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

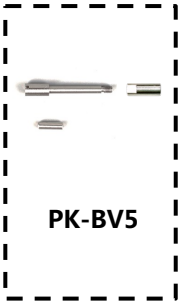
Series combination:

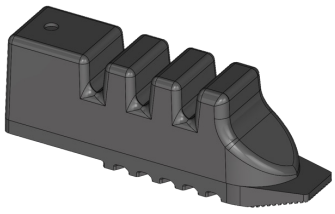
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

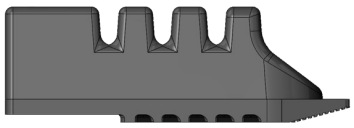
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B4T/FS3[P]	F-B4T/FS3[PAS]	F-B4T/FS3[H]	F-B4T/FS3[HAS]

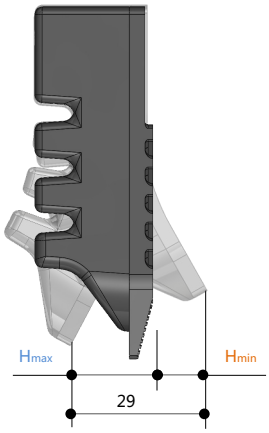
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	16	16	10	⚠260	240	16

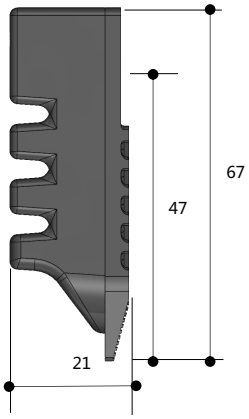
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







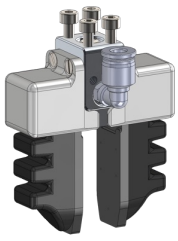
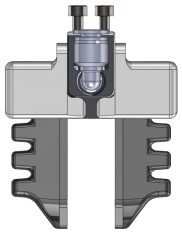
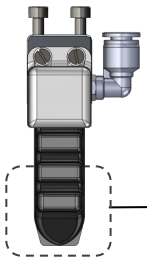
Finger Module

FM -B4V1 / LF1

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.



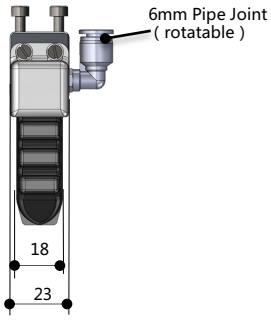
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V1/LF1[P]	FM-B4V1/LF1[PAS]	FM-B4V1/LF1[H]	FM-B4V1/LF1[HAS]

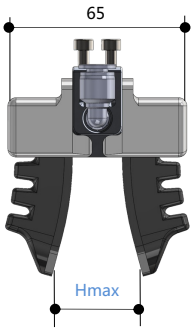
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	44	⚠ 120	400	85	0	38	⚠ 260	480	85

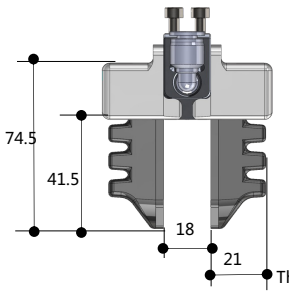
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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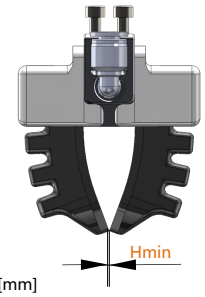
FM



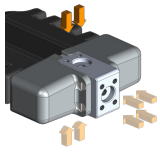


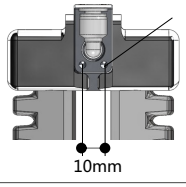


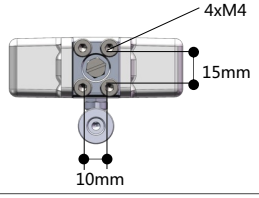
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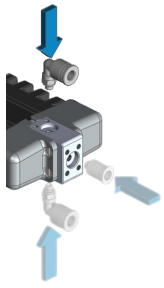
Fixation



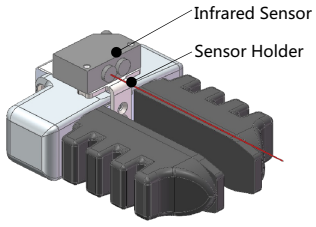




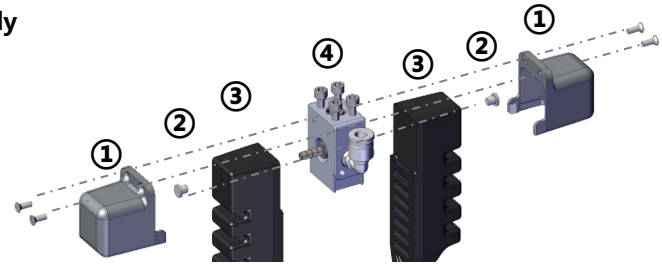
Air Intake



Sensor Installation

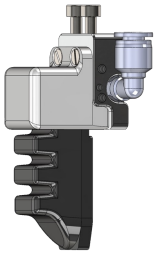


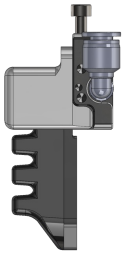
Assembly

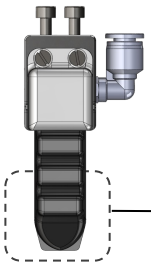


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

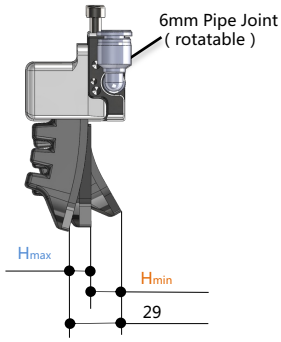


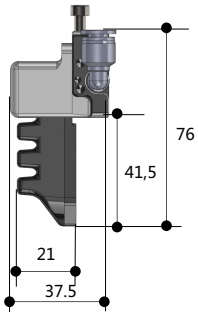
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V2/LF1[P]	FM-B4V2/LF1[PAS]	FM-B4V2/LF1[H]	FM-B4V2/LF1[HAS]

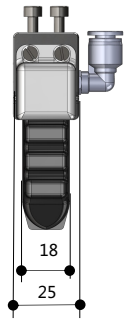
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	56	16	10	⚠ 260	240	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



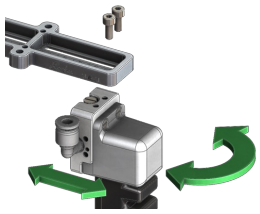




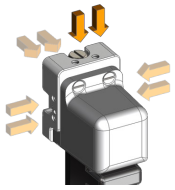
The measuring unit: [mm]

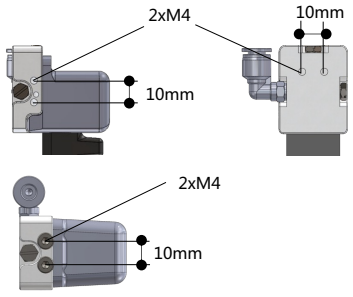
FM

Pose Adjustment

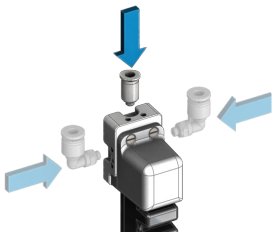


Fixation

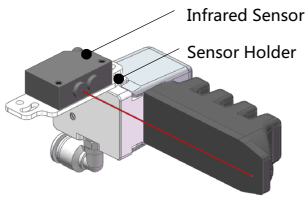




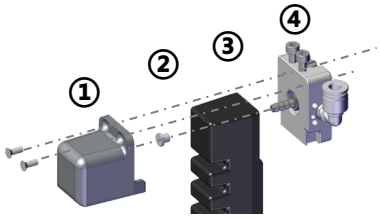
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

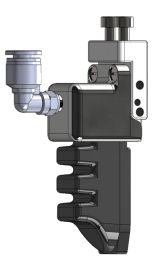
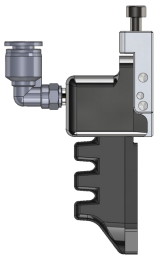
Finger Module

FM -B4V3 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

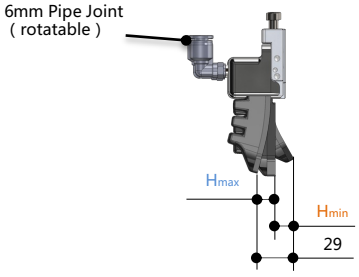


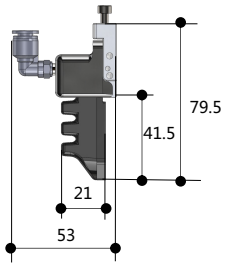
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V3/LF1[P]	FM-B4V3/LF1[PAS]	FM-B4V3/LF1[H]	FM-B4V3/LF1[HAS]

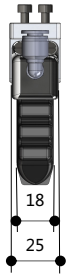
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	47	16	10	⚠260	240	47

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



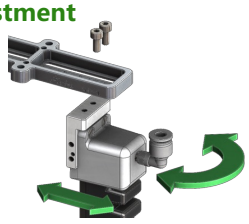




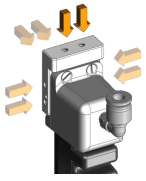
The measuring unit: [mm]

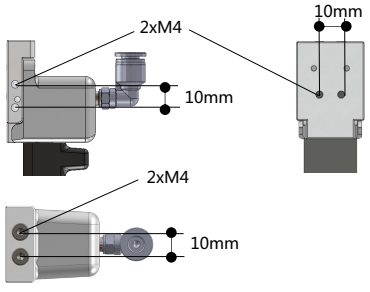
FM

Pose Adjustment



Fixation

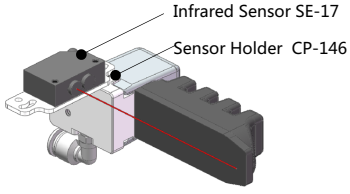




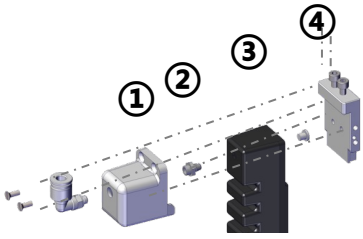
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

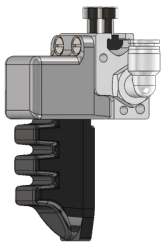
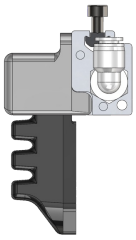
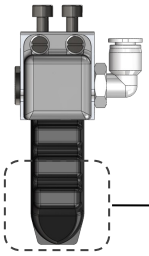
Finger Module

FM -B4V4 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

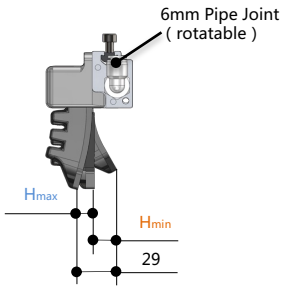


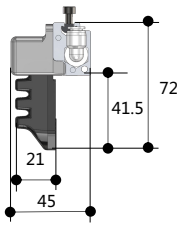
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V4/LF1[P]	FM-B4V4/LF1[PAS]	FM-B4V4/LF1[H]	FM-B4V4/LF1[HAS]

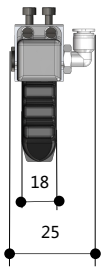
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	200	65	16	10	⚠ 260	240	65

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



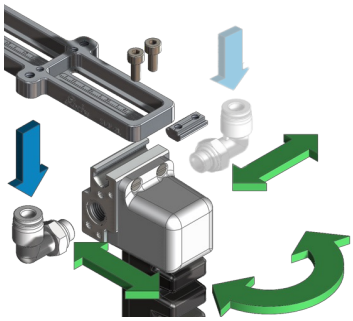




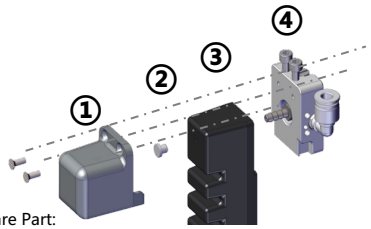
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



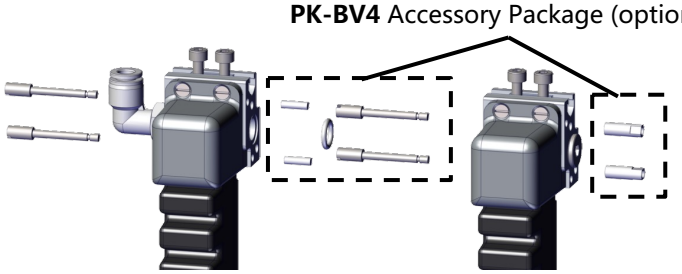
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

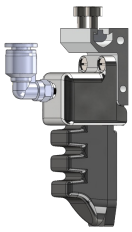
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

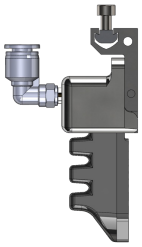
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

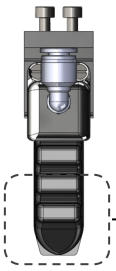
PK-BV4 Accessory Package (optional)











Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

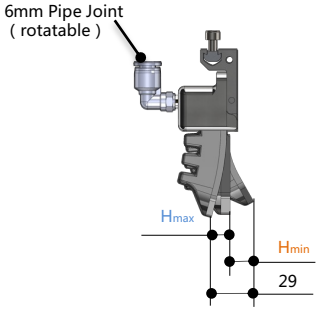


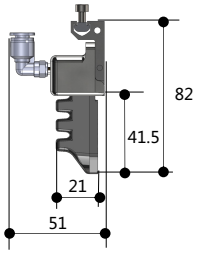
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V5/LF1[P]	FM-B4V5/LF1[PAS]	FM-B4V5/LF1[H]	FM-B4V5/LF1[HAS]

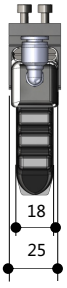
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	48	16	10	⚠260	240	48

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



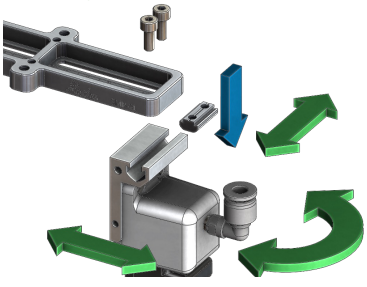




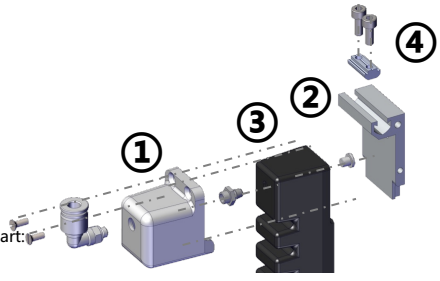
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



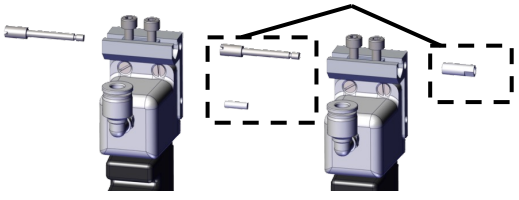
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

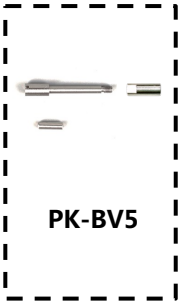
Series combination:

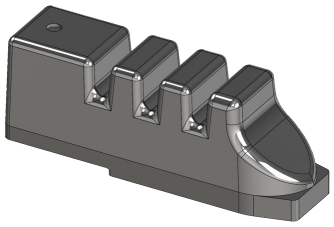
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

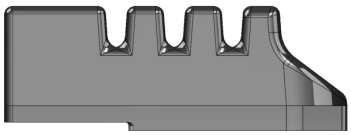
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

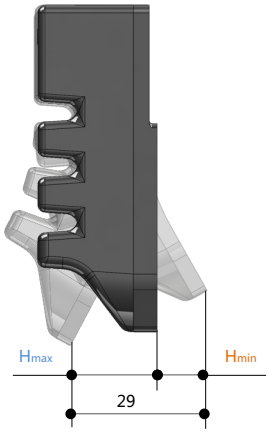
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B4T/LF1[P]	F-B4T/LF1[PAS]	F-B4T/LF1[H]	F-B4T/LF1[HAS]

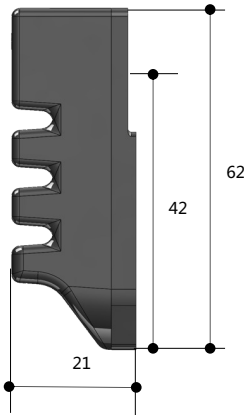
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠ 120	g 200	16	16	10	⚠ 260	g 240	16

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

Dimension Parameters







FM

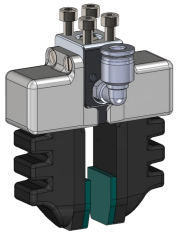
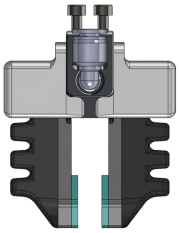
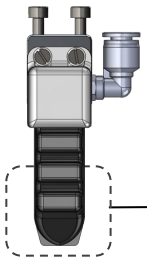
Finger Module

FM -B4V1 / NS

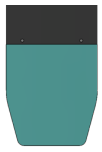
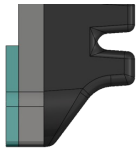
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Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

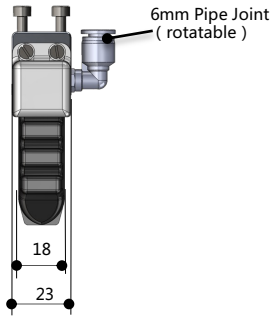
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V1/NS[P]	FM-B4V1/NS[PAS]	FM-B4V1/NS[H]	FM-B4V1/NS[HAS]

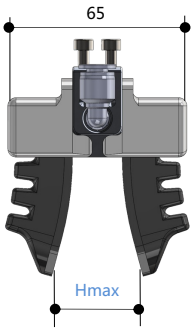
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	44	⚠ 120	400	85	0	38	⚠ 260	480	85

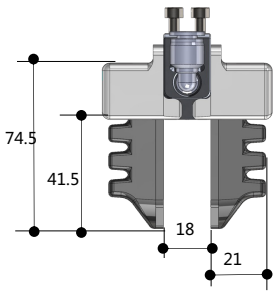
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

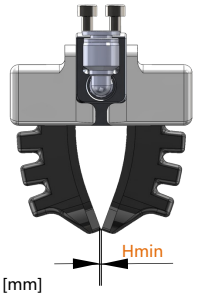
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



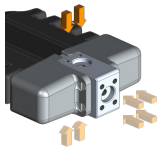
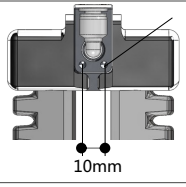


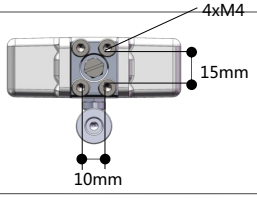




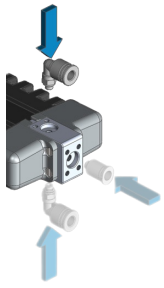
The measuring unit: [mm]

Fixation

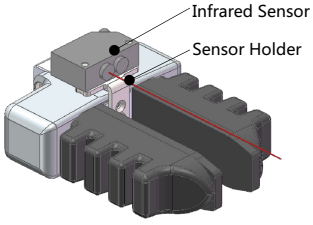





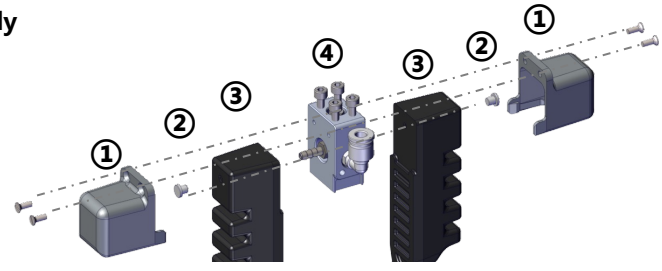
Air Intake



Sensor Installation

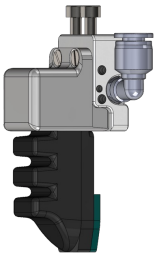
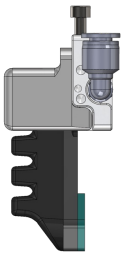
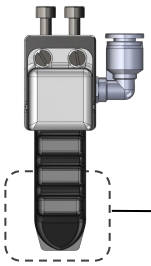


Assembly

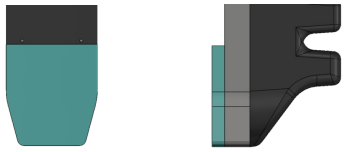


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

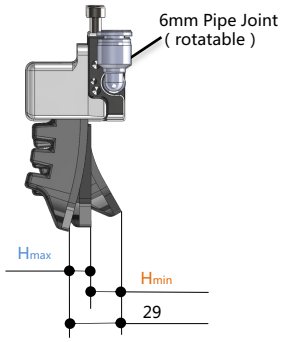


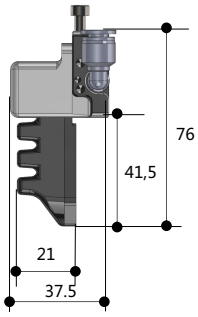
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V2/NS[P]	FM-B4V2/NS[PAS]	FM-B4V2/NS[H]	FM-B4V2/NS[HAS]

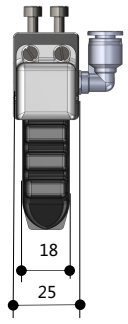
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	56	16	10	⚠260	240	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



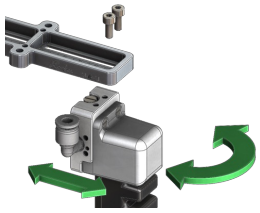




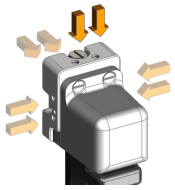
The measuring unit: [mm]

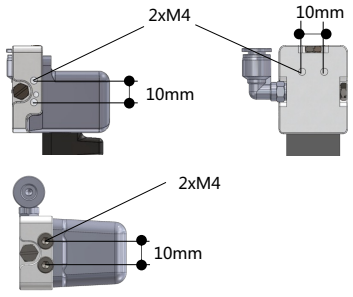
FM

Pose Adjustment

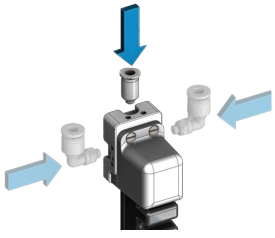


Fixation

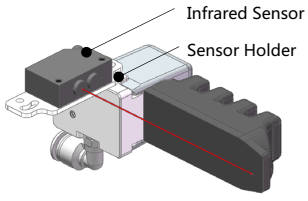




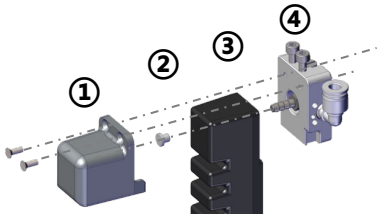
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

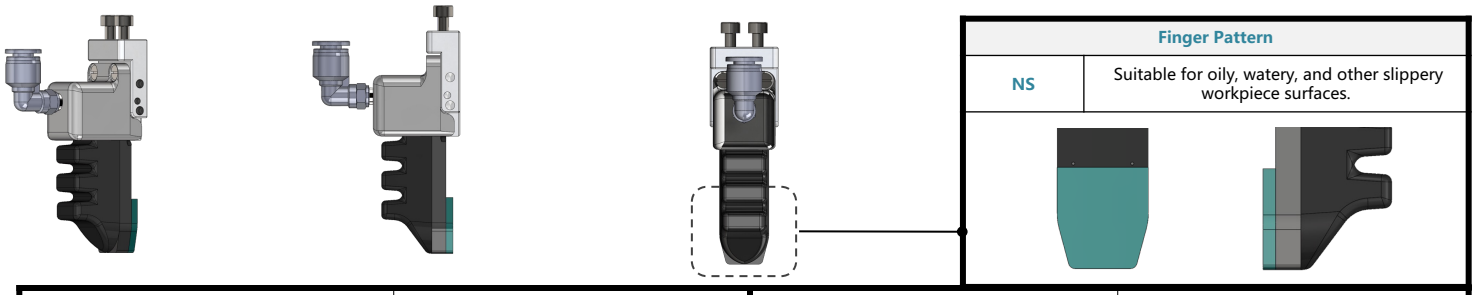
Finger Module

FM -B4V3 / NS

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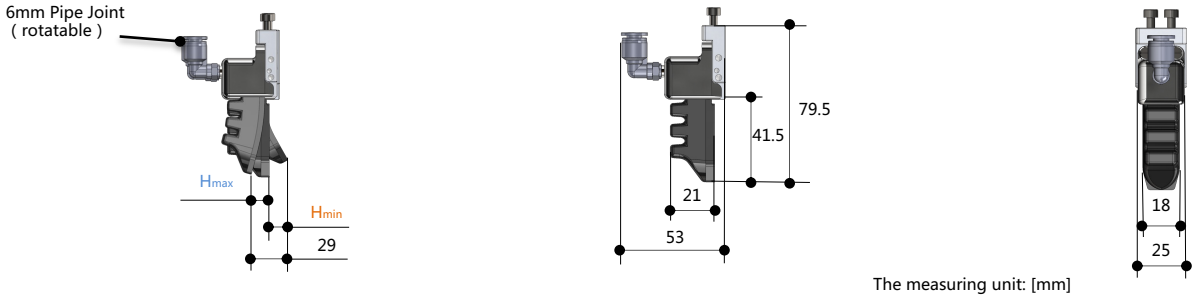
Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V3/NS[P]	FM-B4V3/NS[PAS]	FM-B4V3/NS[H]	FM-B4V3/NS[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	120	200	47	16	10	260	240	47

Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

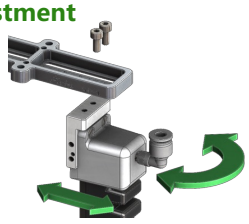
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



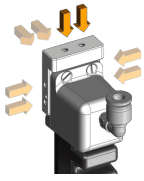
The measuring unit: [mm]

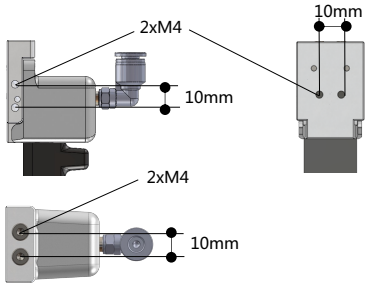
FM

Pose Adjustment



Fixation

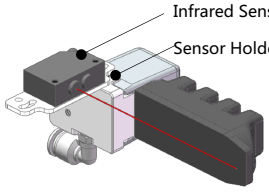




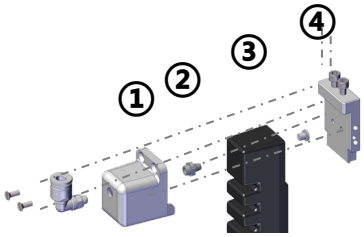
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

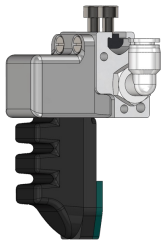
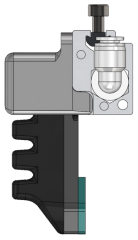
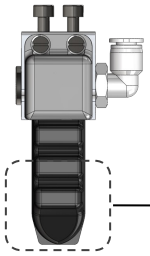
Finger Module

FM -B4V4 / NS

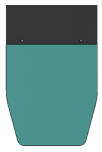
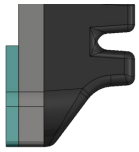
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Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

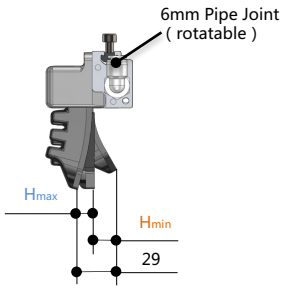



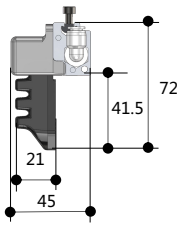
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V4/NS[P]	FM-B4V4/NS[PAS]	FM-B4V4/NS[H]	FM-B4V4/NS[HAS]

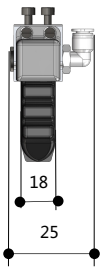
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	65	16	10	⚠260	240	65

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



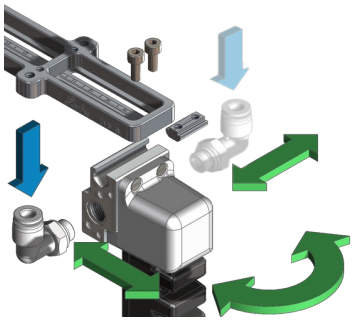




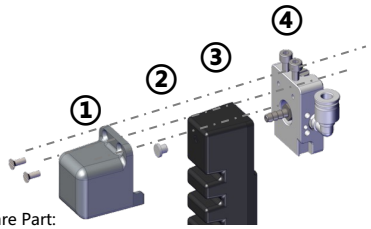
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



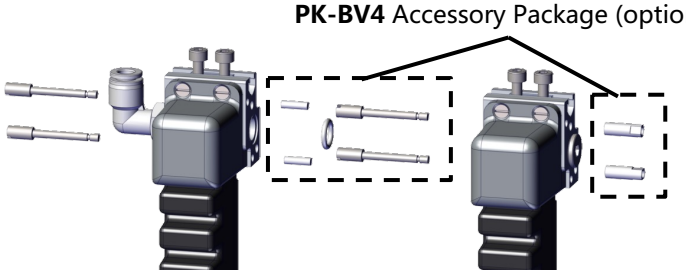
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

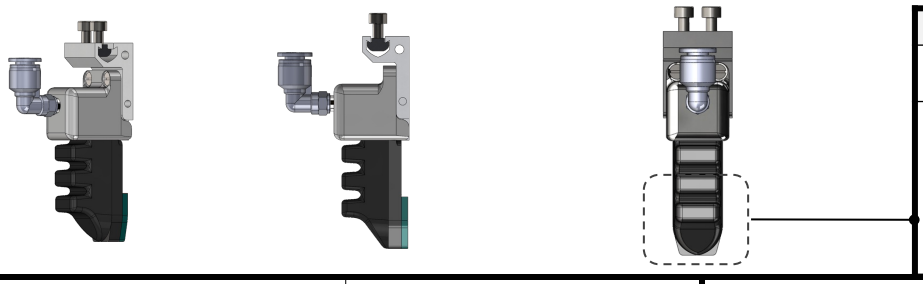
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

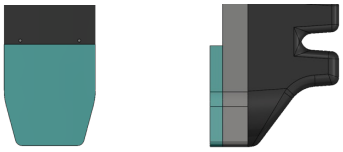
PK-BV4 Accessory Package (optional)







Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

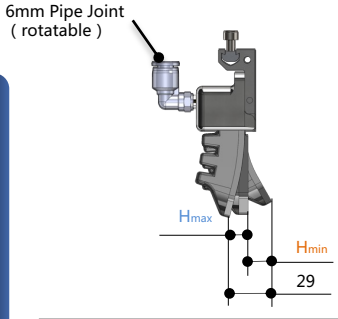


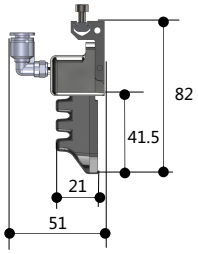
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B4V5/NS[P]	FM-B4V5/NS[PAS]	FM-B4V5/NS[H]	FM-B4V5/NS[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	48	16	10	⚠ 260	240	48

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



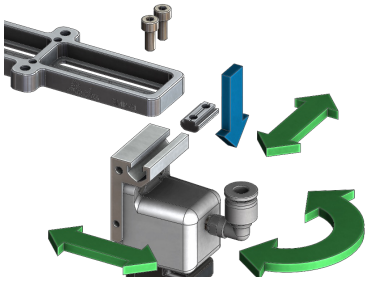




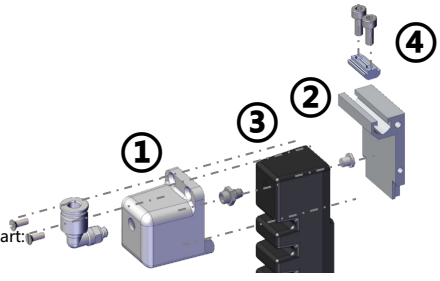
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



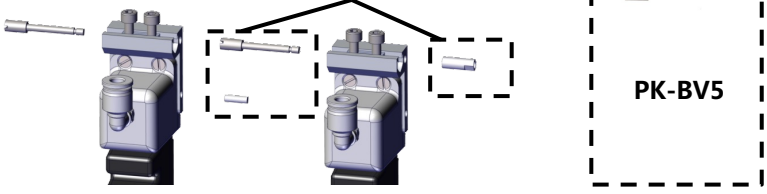
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

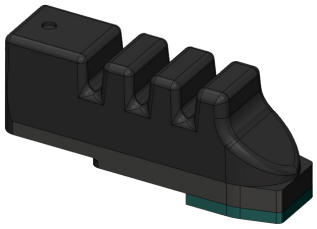
Series combination:

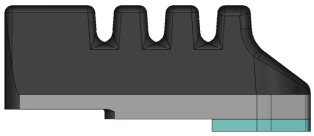
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)









Finger Pattern		Features
NS	Special Form	Suitable for oily, watery, and other slippery workpiece surfaces.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B4T/LS1[P]	F-B4T/LS1[PAS]	F-B4T/LS1[H]	F-B4T/LS1[HAS]

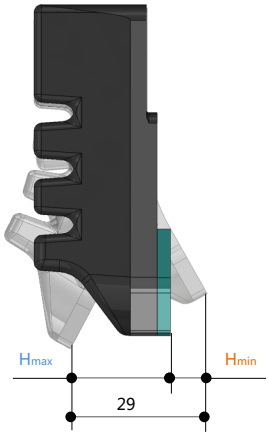
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
16	13	⚠120	200	16	16	10	⚠260	240	16

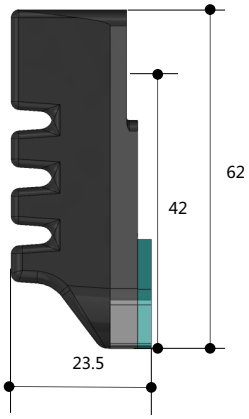
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







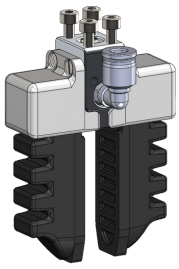
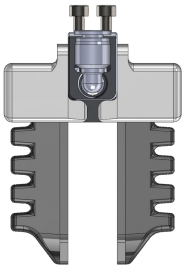
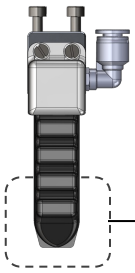
Finger Module

FM -B5V1 / LS1

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Scan to watch videos

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



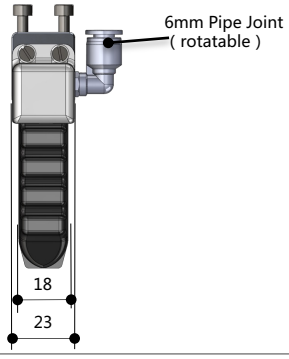
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V1/LS1[P]	FM-B5V1/LS1[PAS]	FM-B5V1/LS1[H]	FM-B5V1/LS1[HAS]

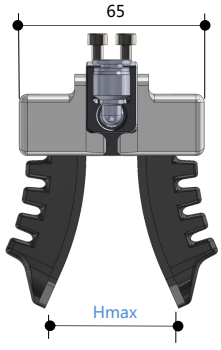
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	50	⚠ 120	360	94	0	46	⚠ 260	460	94

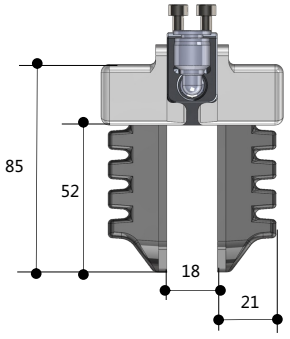
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



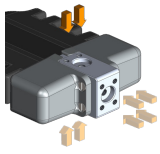


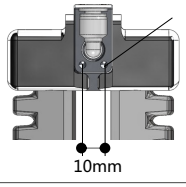


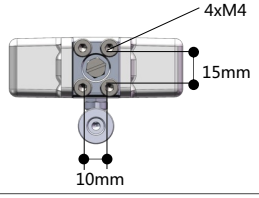
The measuring unit: [mm]



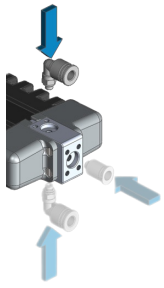
Fixation



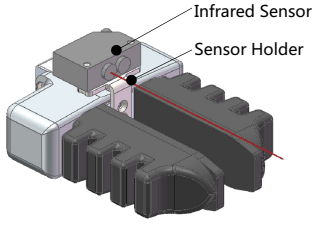




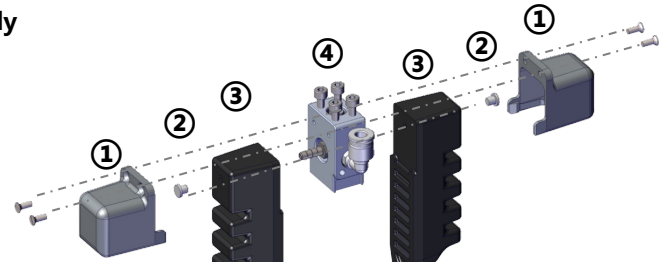
Air Intake



Sensor Installation

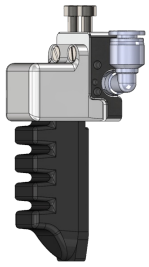
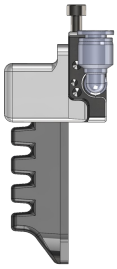
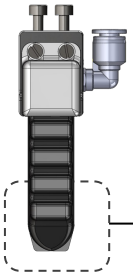


Assembly

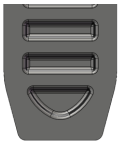


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

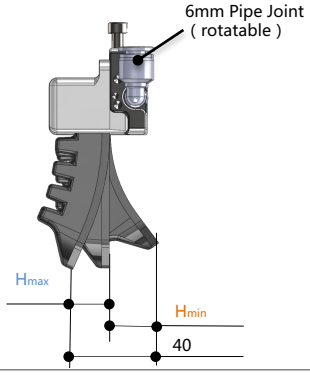


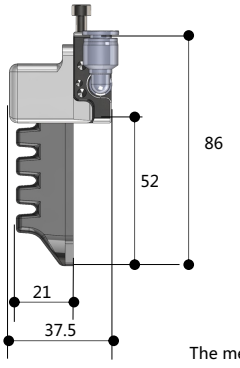

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V2/LS1[P]	FM-B5V2/LS1[PAS]	FM-B5V2/LS1[H]	FM-B5V2/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	60	24	14	⚠ 260	230	60

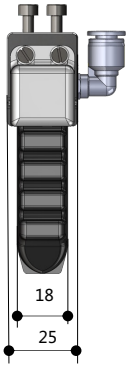
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



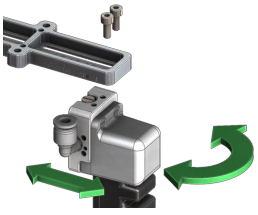


The measuring unit: [mm]

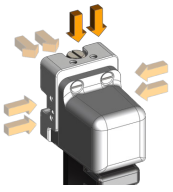


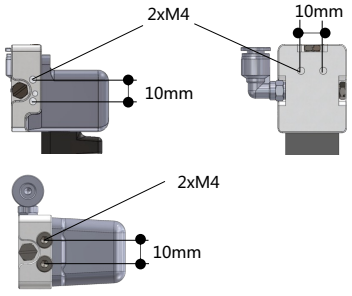
FM

Pose Adjustment

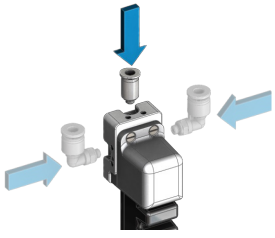


Fixation

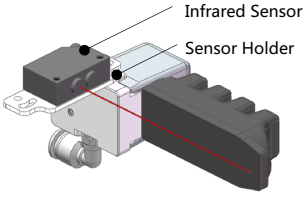




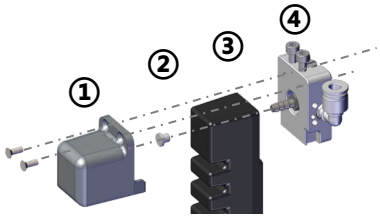
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

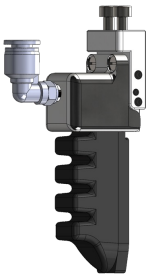
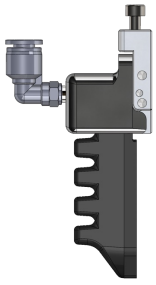
Finger Module

FM -B5V3 / LS1

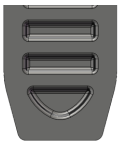
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



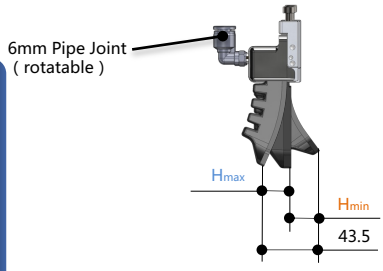

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V3/LS1[P]	FM-B5V3/LS1[PAS]	FM-B5V3/LS1[H]	FM-B5V3/LS1[HAS]

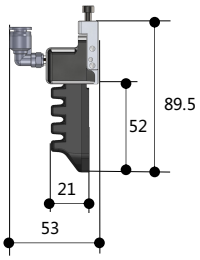
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	51	24	14	⚠ 260	230	51

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

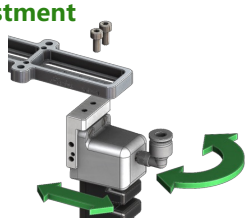




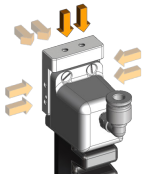


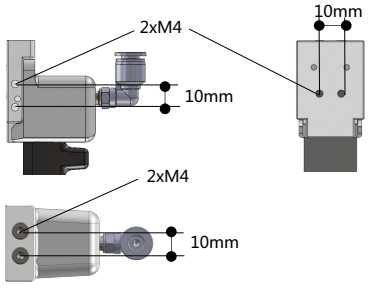
The measuring unit: [mm]

Pose Adjustment



Fixation

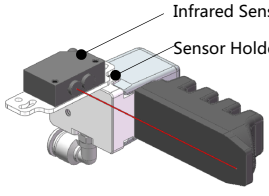




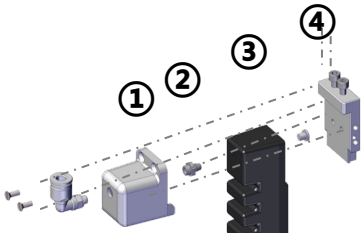
Air Intake



Sensor Installation

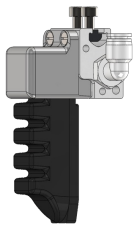


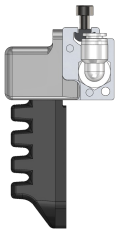
Assembly

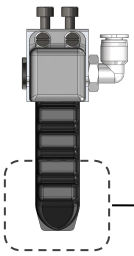


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

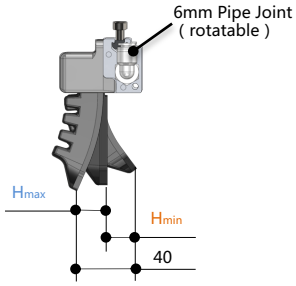


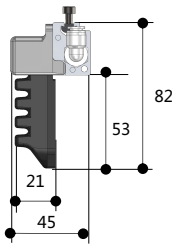
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V4/LS1[P]	FM-B5V4/LS1[PAS]	FM-B5V4/LS1[H]	FM-B5V4/LS1[HAS]

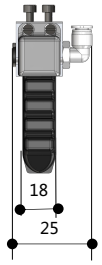
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	69	24	14	⚠ 260	230	69

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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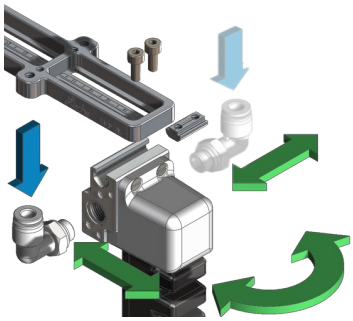




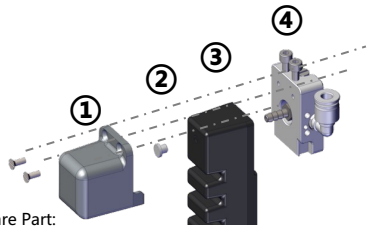
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



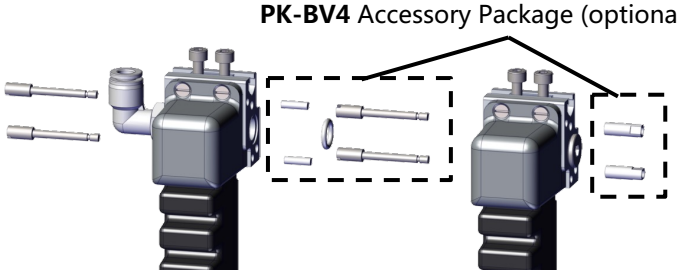
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





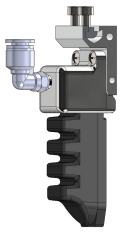
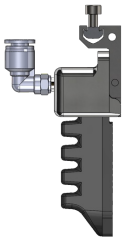
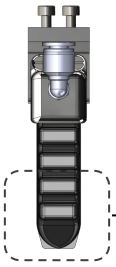
Finger Module

FM -B5V5 / LS1

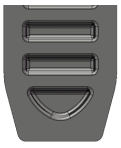
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

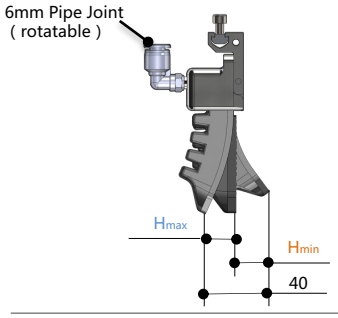


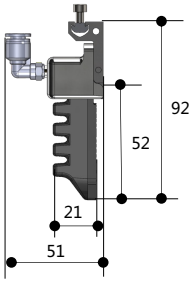

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
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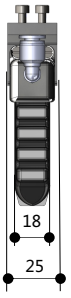
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	52	24	14	⚠260	230	52

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



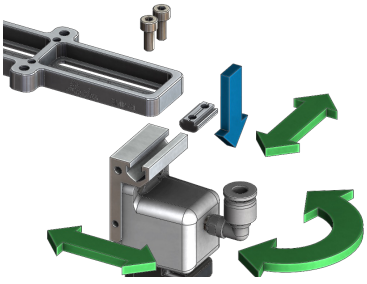




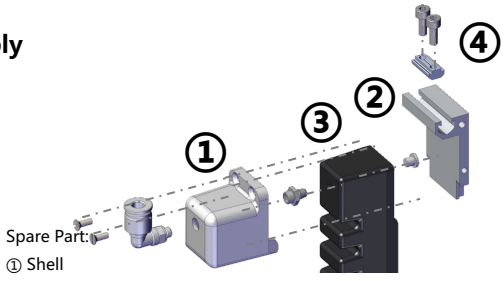
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



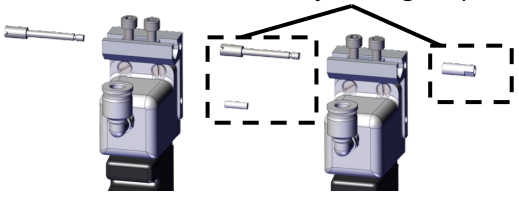
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

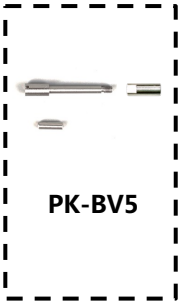
Series combination:

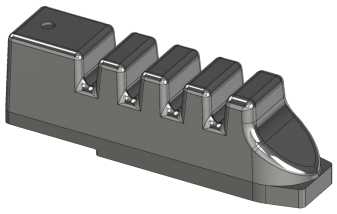
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

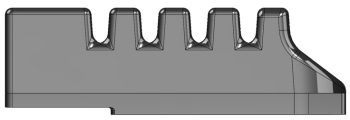
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

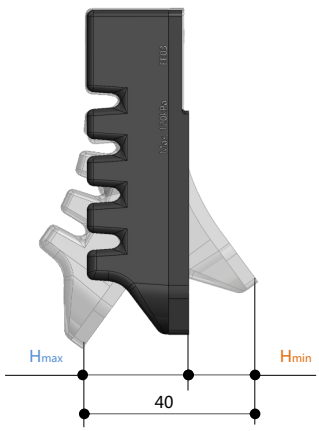
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
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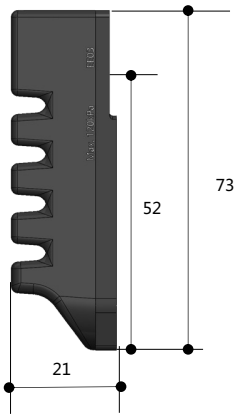
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	20	24	14	⚠260	230	20

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

Dimension Parameters







FM

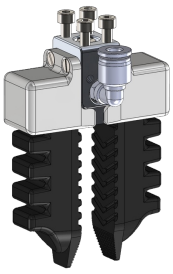
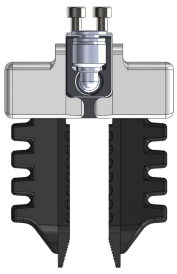
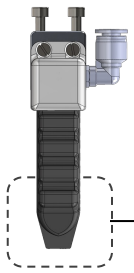
Finger Module

FM -B5V1 / FS3

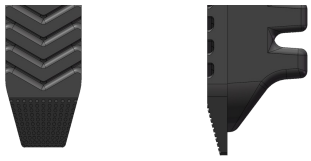
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Finger Pattern	
FS3	Suitable for soft fabric products.



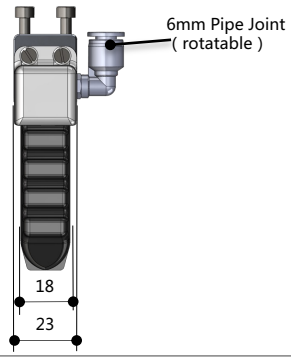
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V1/FS3[P]	FM-B5V1/FS3[PAS]	FM-B5V1/FS3[H]	FM-B5V1/FS3[HAS]

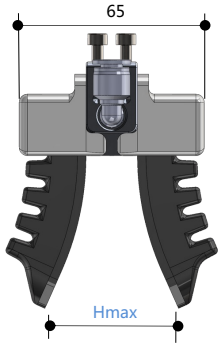
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	50	⚠ 120	360	94	0	46	⚠ 260	460	94

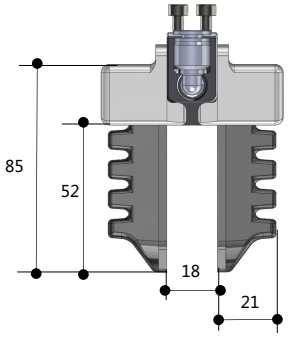
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

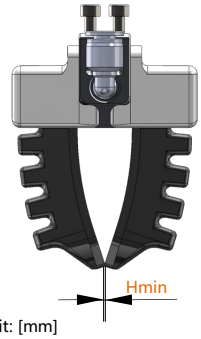
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



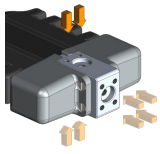


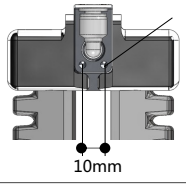


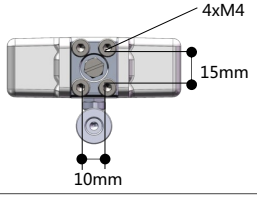


The measuring unit: [mm]

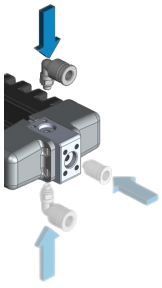
Fixation



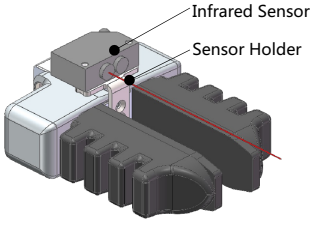




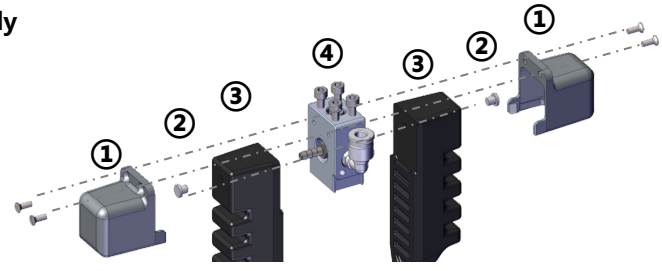
Air Intake



Sensor Installation

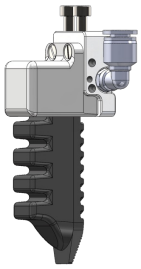


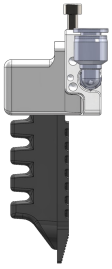
Assembly

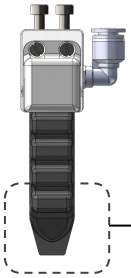


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

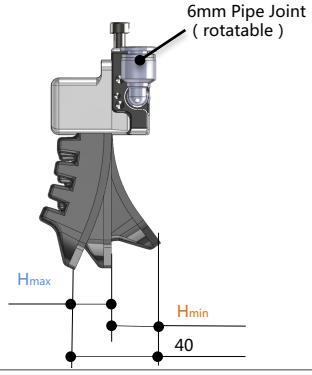


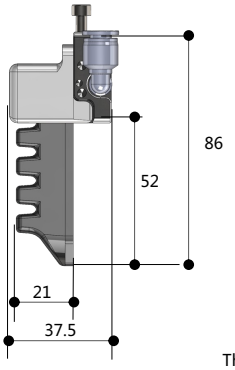
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V2/FS3[P]	FM-B5V2/FS3[PAS]	FM-B5V2/FS3[H]	FM-B5V2/FS3[HAS]

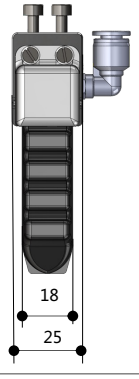
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	60	24	14	⚠260	230	60

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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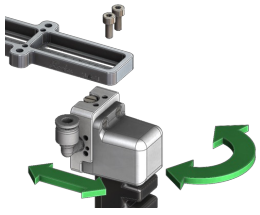




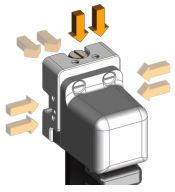


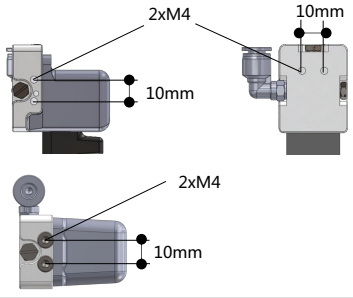
The measuring unit: [mm]

Pose Adjustment

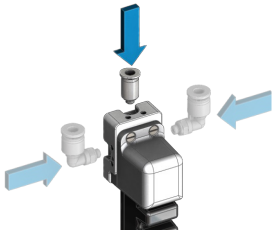


Fixation

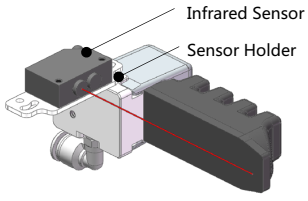




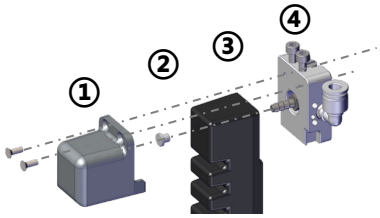
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

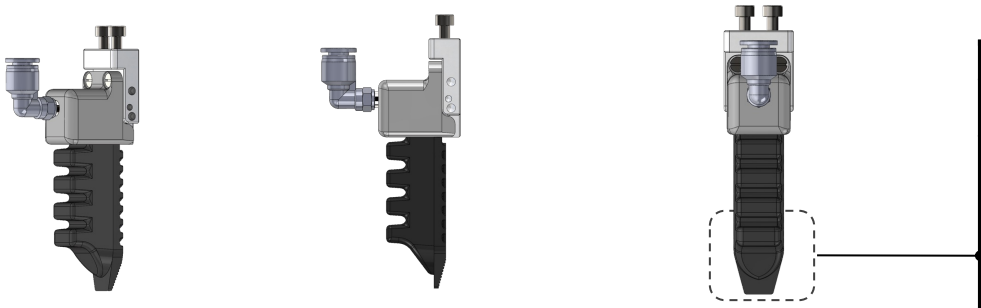
Finger Module

FM -B5V3 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

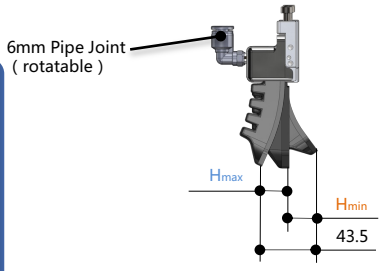


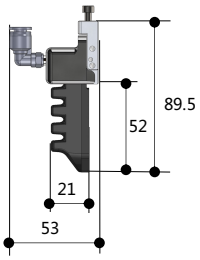
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V3/FS3[P]	FM-B5V3/FS3[PAS]	FM-B5V3/FS3[H]	FM-B5V3/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	51	24	14	⚠260	230	51

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



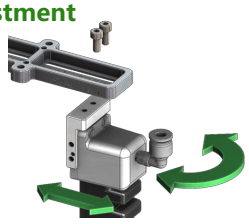




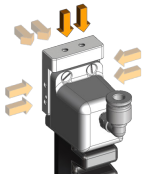
The measuring unit: [mm]

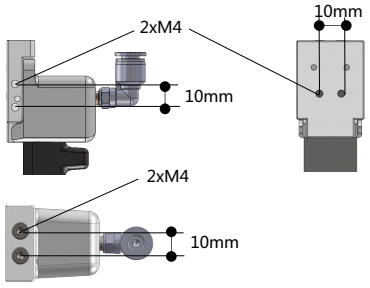
FM

Pose Adjustment



Fixation

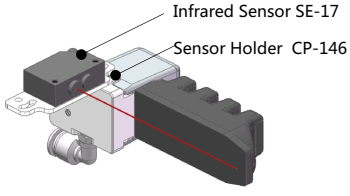




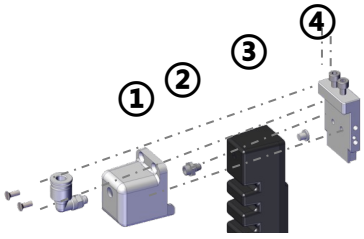
Air Intake



Sensor Installation

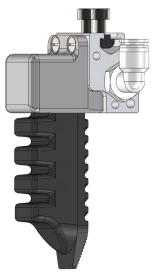


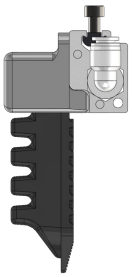
Assembly

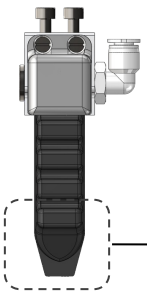


Spare Part:

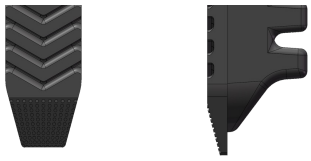
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

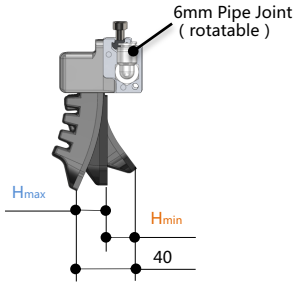


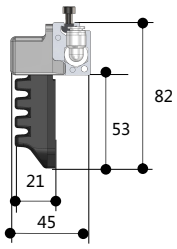
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V4/FS3[P]	FM-B5V4/FS3[PAS]	FM-B5V4/FS3[H]	FM-B5V4/FS3[HAS]

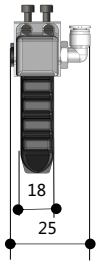
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	69	24	14	⚠260	230	69

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



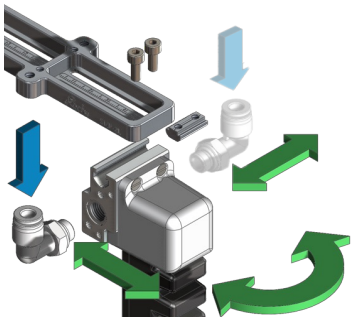




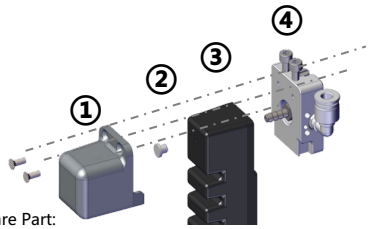
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



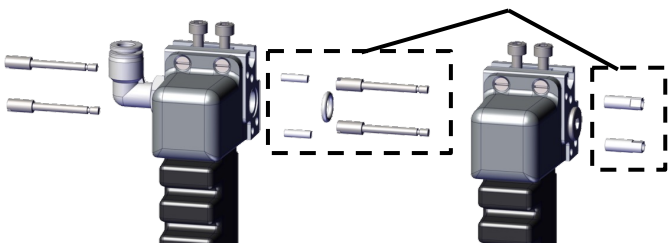
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

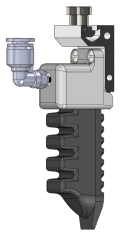
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

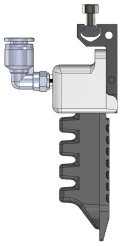
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)



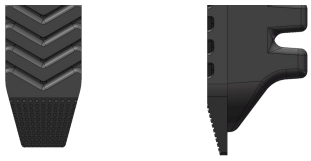








Finger Pattern	
FS3	Suitable for soft fabric products.

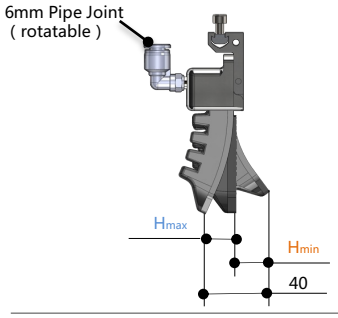


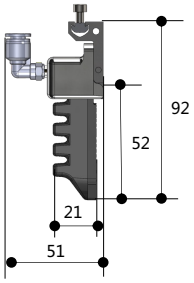
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V5/FS3[P]	FM-B5V5/FS3[PAS]	FM-B5V5/FS3[H]	FM-B5V5/FS3[HAS]

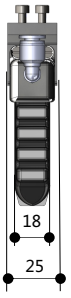
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	52	24	14	⚠ 260	230	52

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

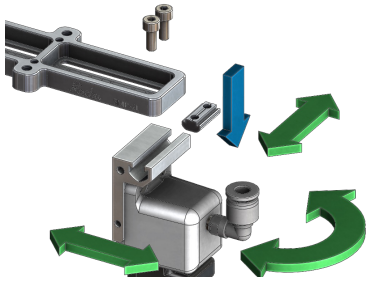




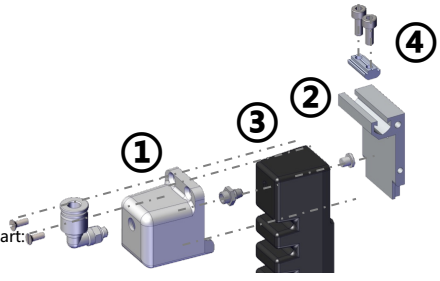


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



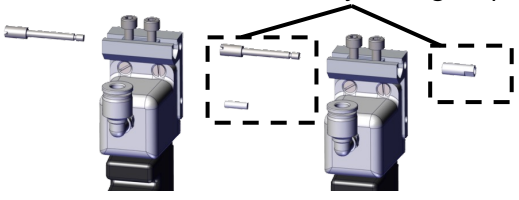
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

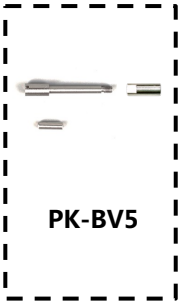
Series combination:

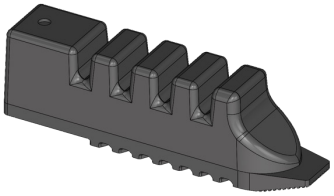
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B5T/FS3[P]	F-B5T/FS3[PAS]	F-B5T/FS3[H]	F-B5T/FS3[HAS]

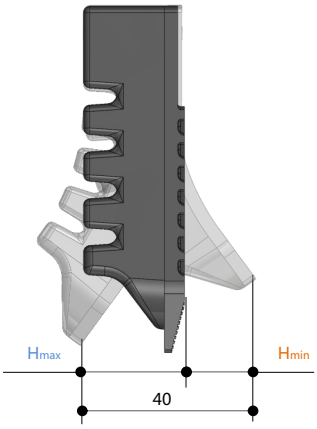
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	20	24	14	⚠260	230	20

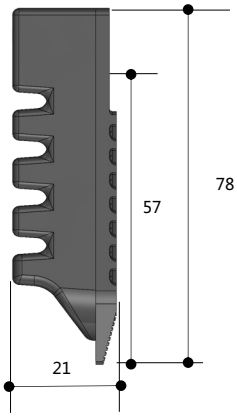
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

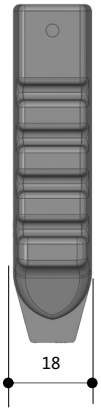
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







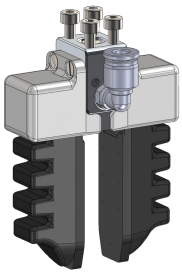
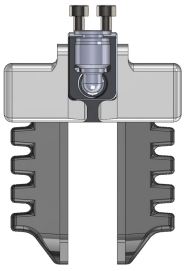
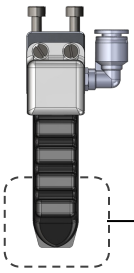
Finger Module

FM -B5V1 / LF1

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.



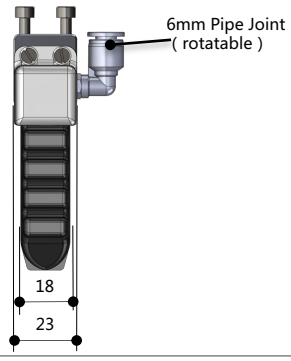
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V1/LF1[P]	FM-B5V1/LF1[PAS]	FM-B5V1/LF1[H]	FM-B5V1/LF1[HAS]

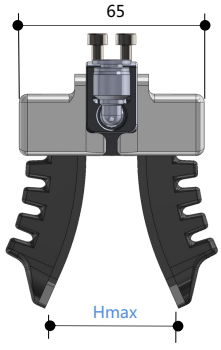
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	50	⚠ 120	360	94	0	46	⚠ 260	460	94

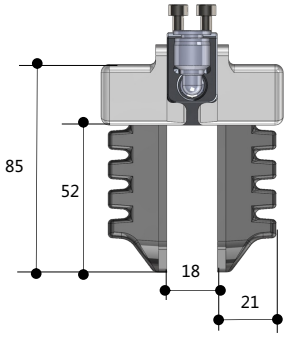
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

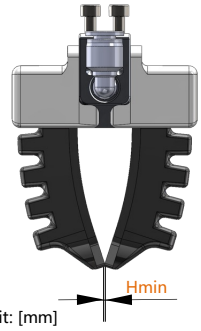
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



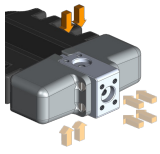


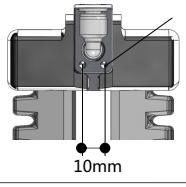


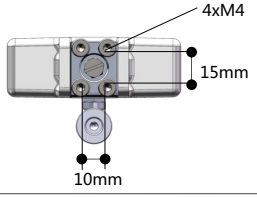


The measuring unit: [mm]

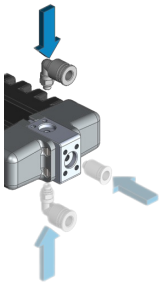
Fixation



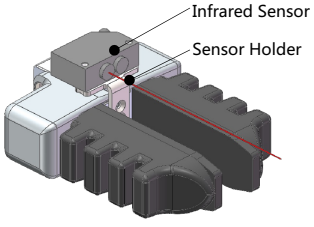




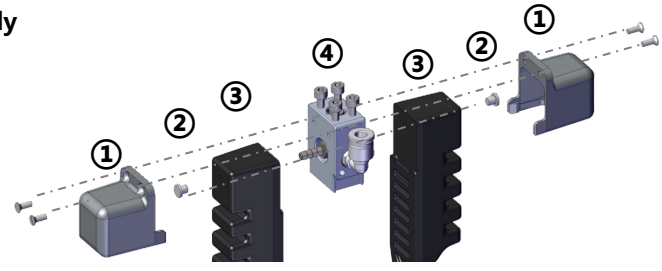
Air Intake



Sensor Installation

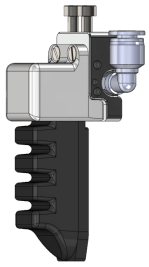
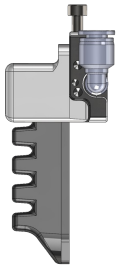
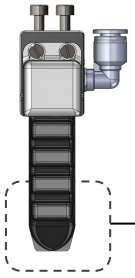


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

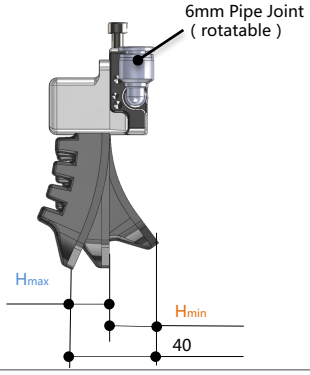


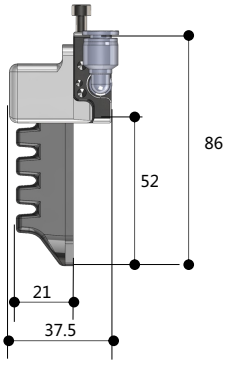
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V2/LF1[P]	FM-B5V2/LF1[PAS]	FM-B5V2/LF1[H]	FM-B5V2/LF1[HAS]

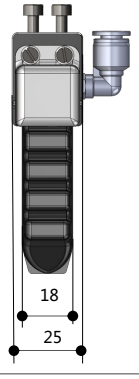
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	60	24	14	⚠ 260	230	60

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

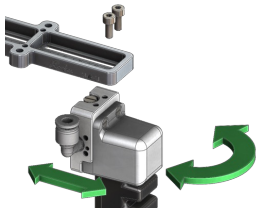




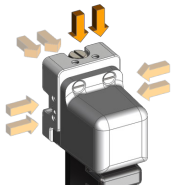


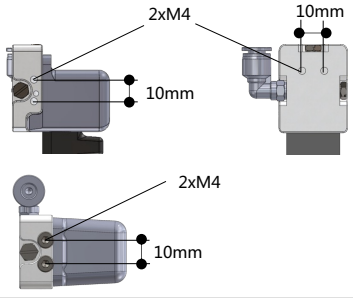
The measuring unit: [mm]

Pose Adjustment

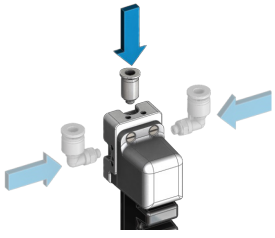


Fixation

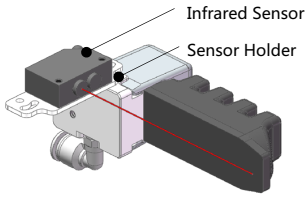




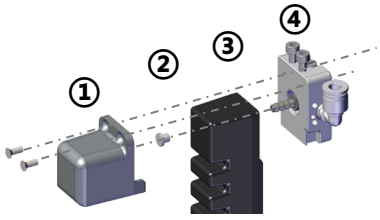
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

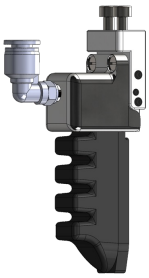
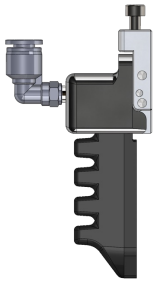
Finger Module

FM -B5V3 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

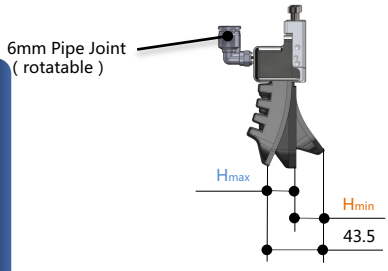


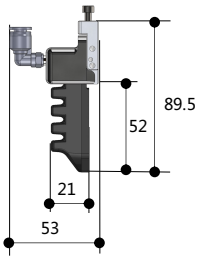
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V3/LF1[P]	FM-B5V3/LF1[PAS]	FM-B5V3/LF1[H]	FM-B5V3/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	51	24	14	⚠260	230	51

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



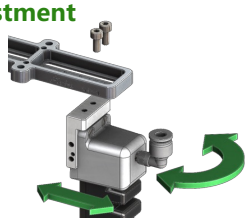




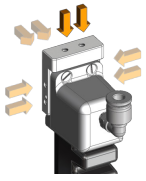
The measuring unit: [mm]

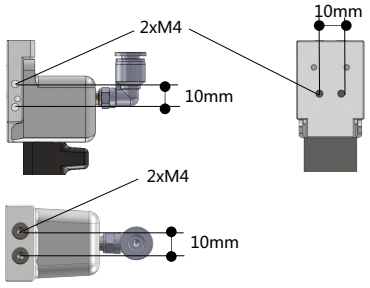
FM

Pose Adjustment



Fixation

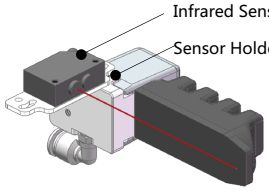




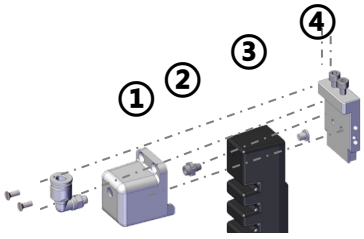
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

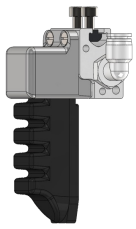
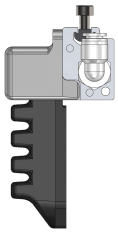
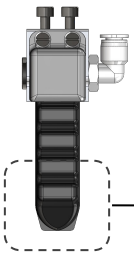
Finger Module

FM -B5V4 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

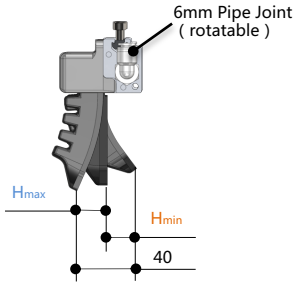


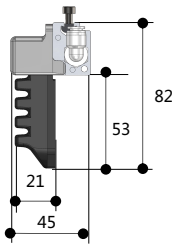
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V4/LF1[P]	FM-B5V4/LF1[PAS]	FM-B5V4/LF1[H]	FM-B5V4/LF1[HAS]

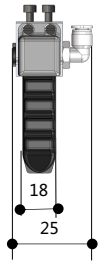
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	69	24	14	⚠ 260	230	69

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



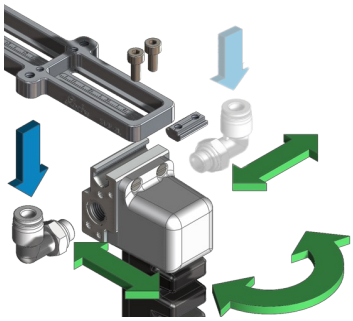




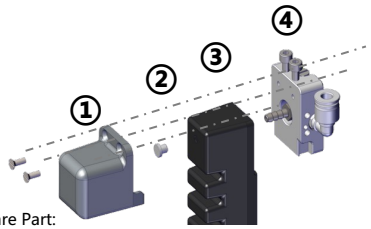
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



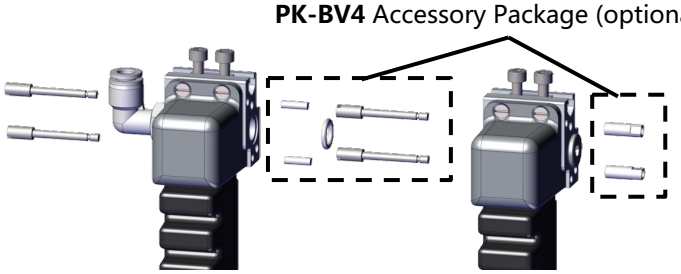
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

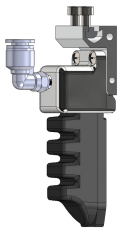
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

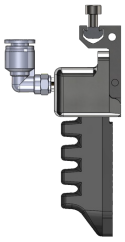
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

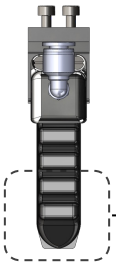
PK-BV4 Accessory Package (optional)











Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

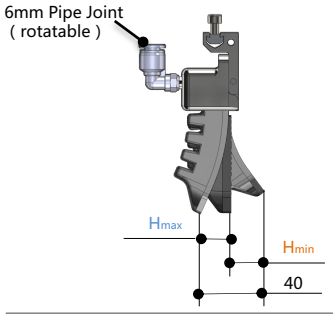


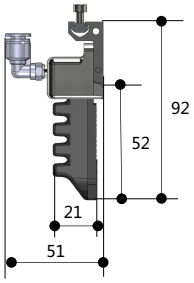
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B5V5/LF1[P]	FM-B5V5/LF1[PAS]	FM-B5V5/LF1[H]	FM-B5V5/LF1[HAS]

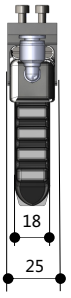
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠ 120	180	52	24	14	⚠ 260	230	52

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

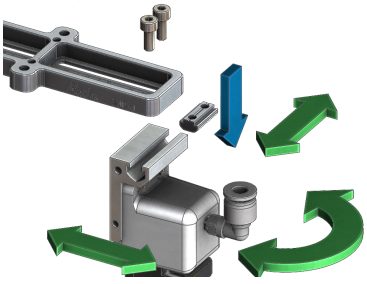




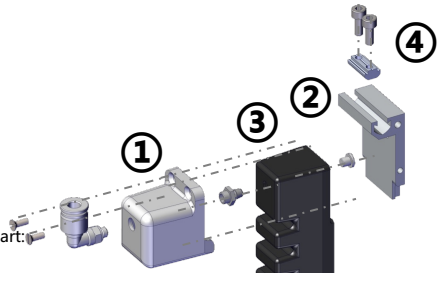


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



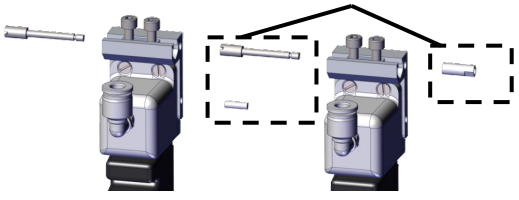
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

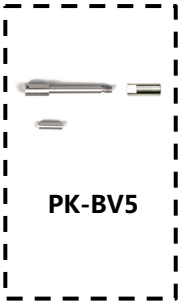
Series combination:

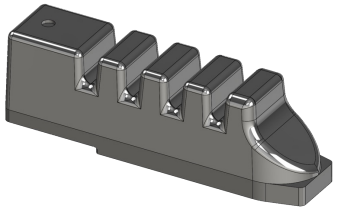
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

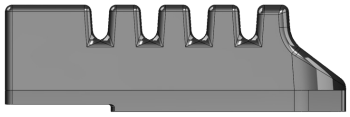
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

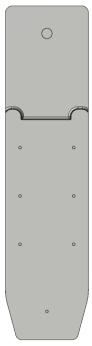
PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

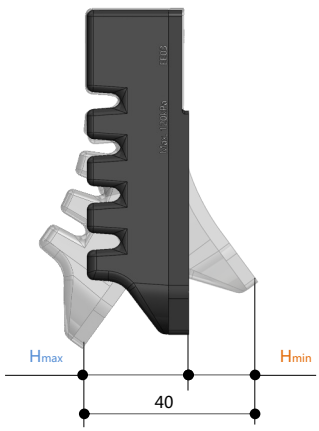
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B5T/LF1[P]	F-B5T/LF1[PAS]	F-B5T/LF1[H]	F-B5T/LF1[HAS]

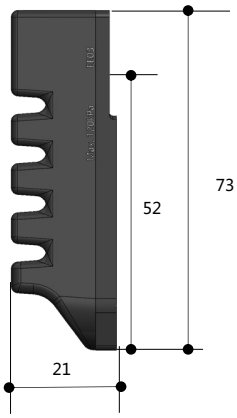
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
24	16	⚠120	180	20	24	14	⚠260	230	20

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

Dimension Parameters







FM

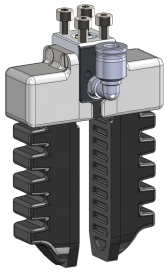
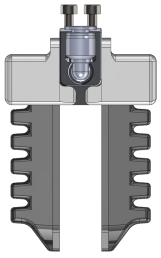
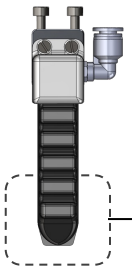
Finger Module

FM -B6V1 / LS1

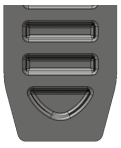
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



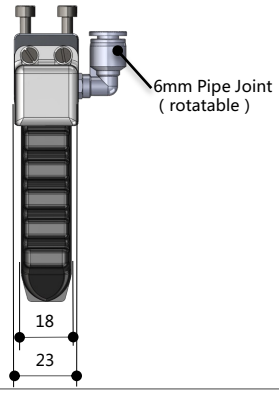

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V1/LS1[P]	FM-B6V1/LS1[PAS]	FM-B6V1/LS1[H]	FM-B6V1/LS1[HAS]

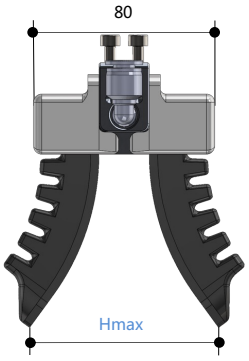
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	64	⚠ 120	288	102	0	52	⚠ 260	348	102

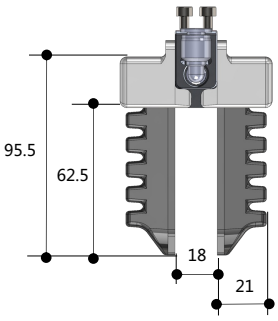
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

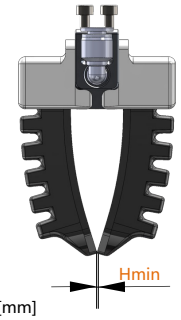
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



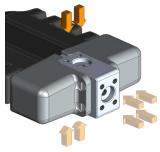


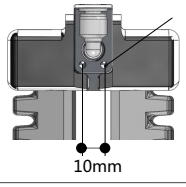


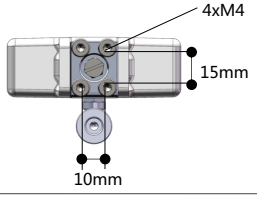


The measuring unit: [mm]

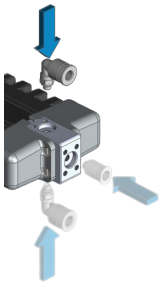
Fixation



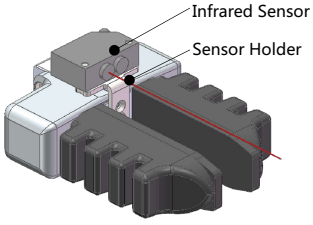




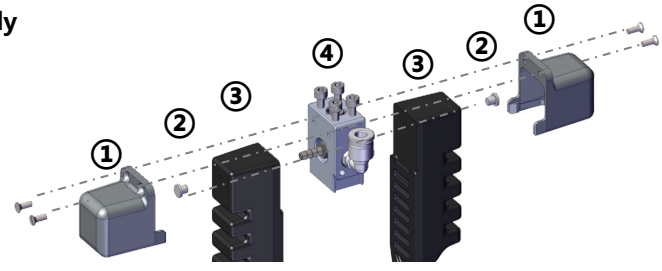
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

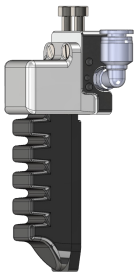
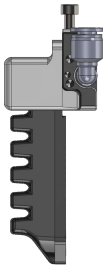
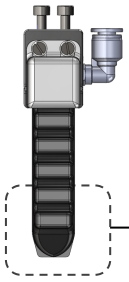
Finger Module

FM -B6V2 / LS1

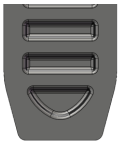
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

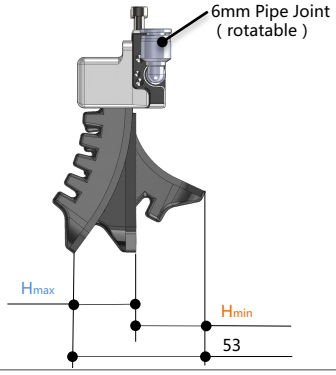


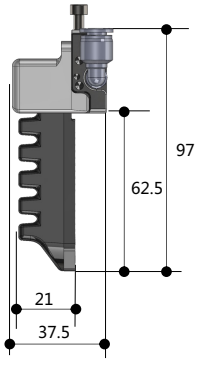

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V2/LS1[P]	FM-B6V2/LS1[PAS]	FM-B6V2/LS1[H]	FM-B6V2/LS1[HAS]

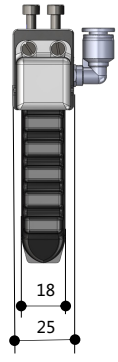
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	64	30	17	⚠ 260	174	64

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

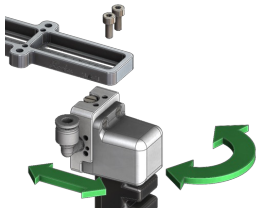




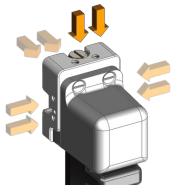


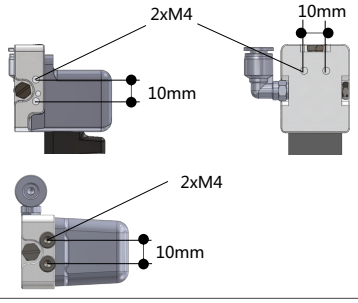
The measuring unit: [mm]

Pose Adjustment

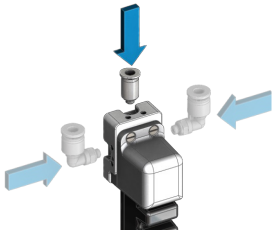


Fixation

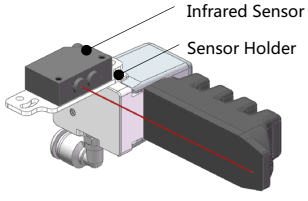




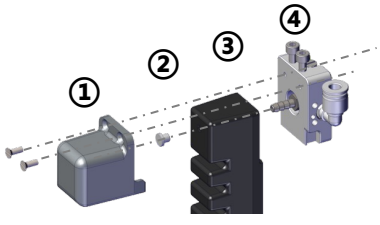
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

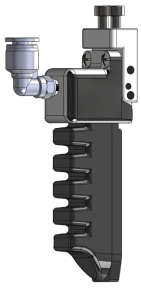
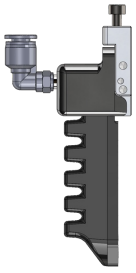
Finger Module

FM -B6V3 / LS1

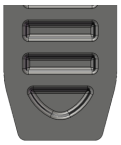
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

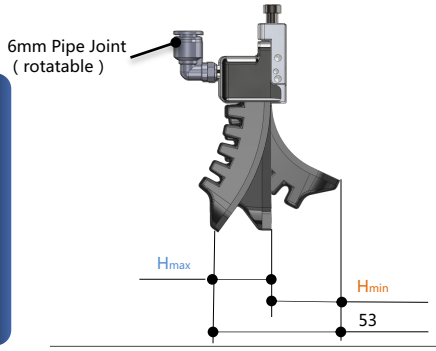


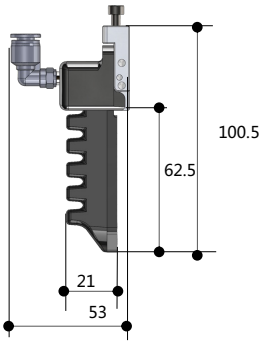

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V3/LS1[P]	FM-B6V3/LS1[PAS]	FM-B6V3/LS1[H]	FM-B6V3/LS1[HAS]

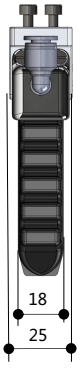
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	55	30	17	⚠ 260	174	55

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



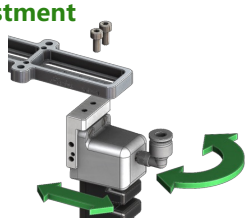




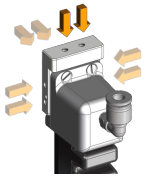
The measuring unit: [mm]

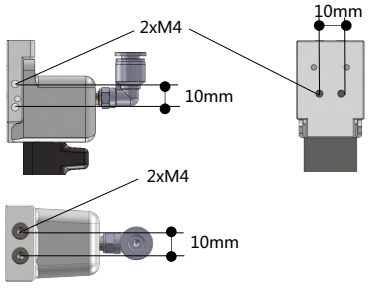
FM

Pose Adjustment



Fixation

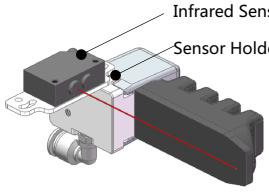




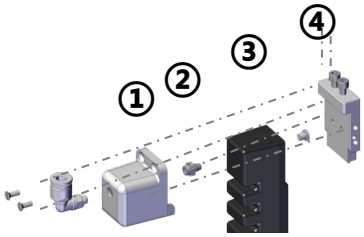
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

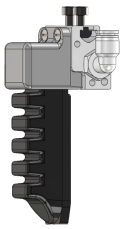
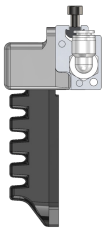
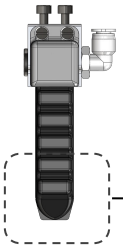
Finger Module

FM -B6V4 / LS1

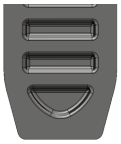
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

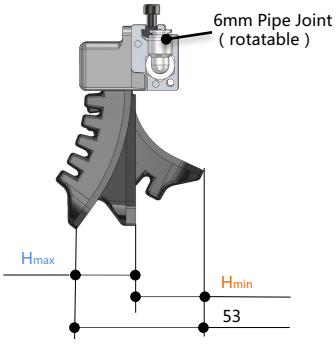


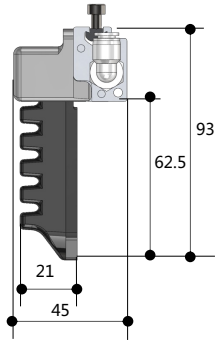

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V4/LS1[P]	FM-B6V4/LS1[PAS]	FM-B6V4/LS1[H]	FM-B6V4/LS1[HAS]

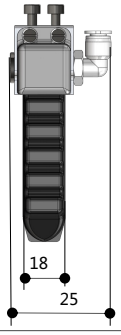
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	73	30	17	⚠ 260	174	73

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



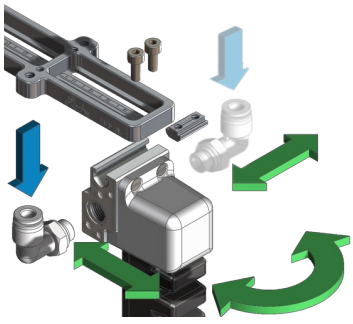




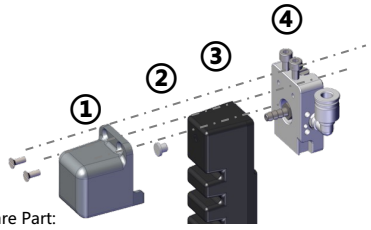
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



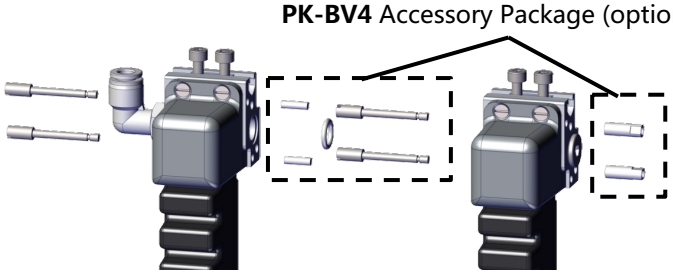
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





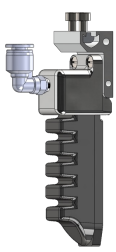
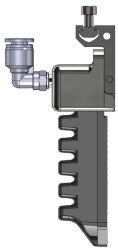
Finger Module

FM -B6V5 / LS1

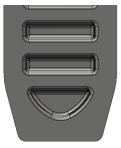
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

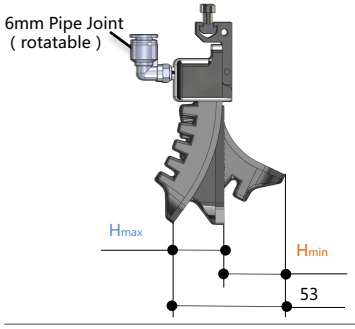


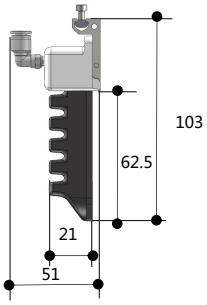

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V5/LS1[P]	FM-B6V5/LS1[PAS]	FM-B6V5/LS1[H]	FM-B6V5/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	56	30	17	⚠ 260	174	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



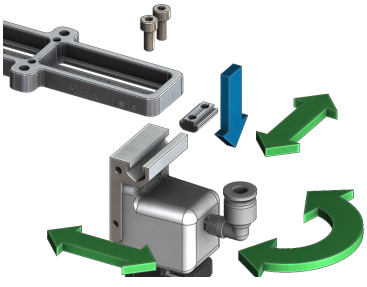




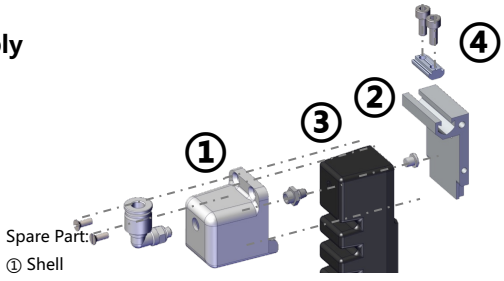
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



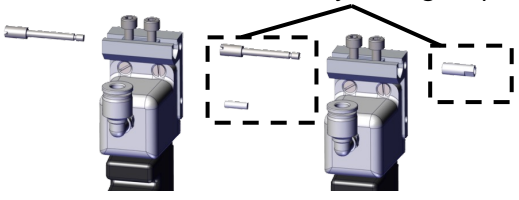
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

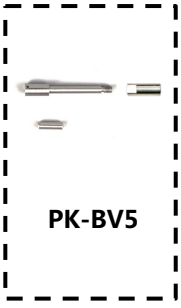
Series combination:

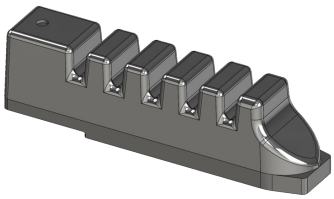
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

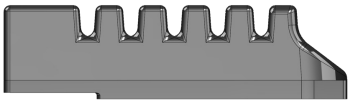
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B6T/LS1[P]	F-B6T/LS1[PAS]	F-B6T/LS1[H]	F-B6T/LS1[HAS]

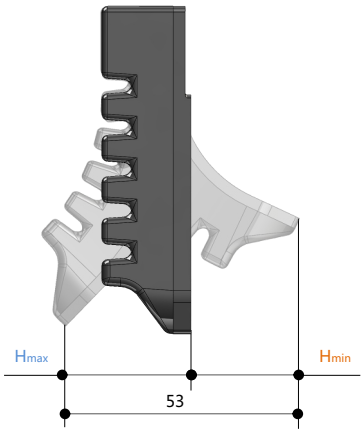
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠120	g 144	24	30	17	⚠260	g 174	24

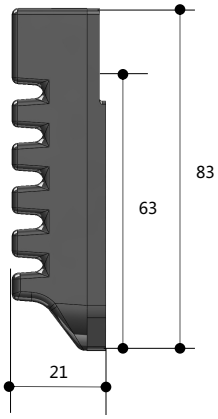
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







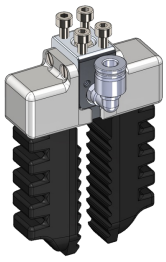
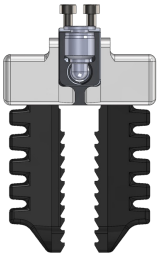
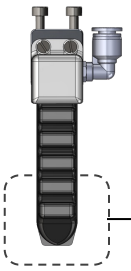
Finger Module

FM -B6V1 / LS8

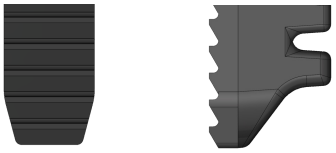
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Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.



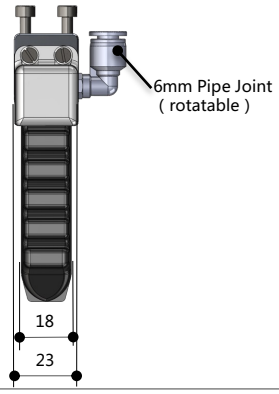
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V1/LS8[P]	FM-B6V1/LS8[PAS]	FM-B6V1/LS8[H]	FM-B6V1/LS8[HAS]

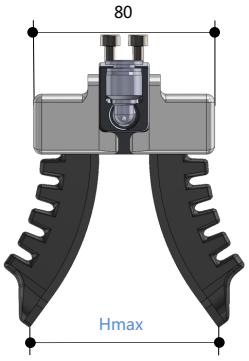
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	64	⚠ 120	288	102	0	52	⚠ 260	348	102

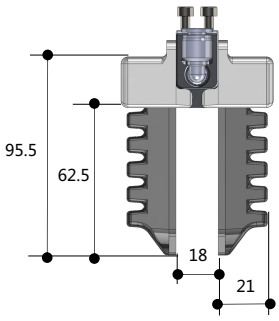
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

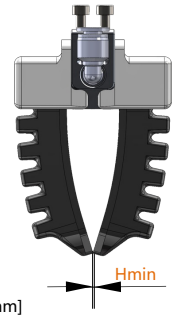
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



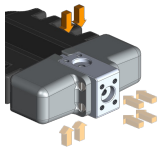


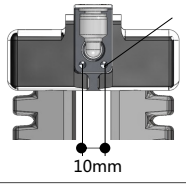


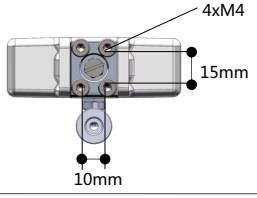


The measuring unit: [mm]

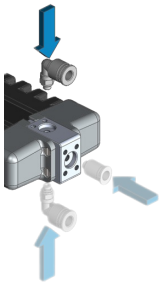
Fixation



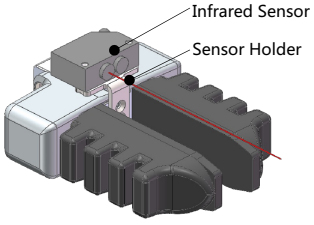




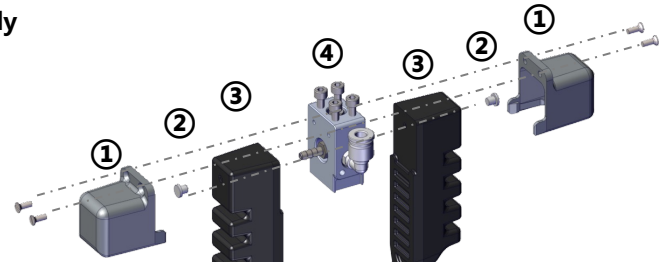
Air Intake



Sensor Installation

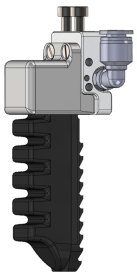


Assembly

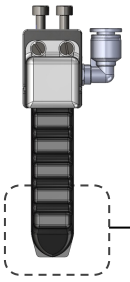


Spare Part:

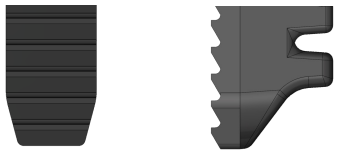
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

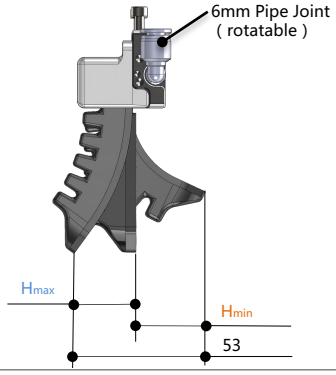


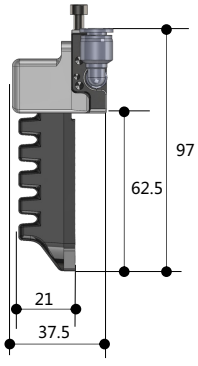
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V2/LS8[P]	FM-B6V2/LS8[PAS]	FM-B6V2/LS8[H]	FM-B6V2/LS8[HAS]

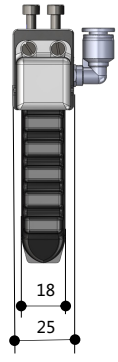
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	64	30	17	⚠ 260	174	64

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



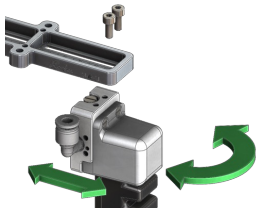




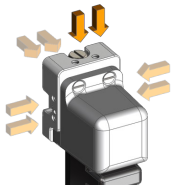
The measuring unit: [mm]

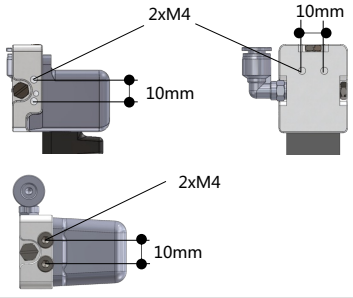
FM

Pose Adjustment

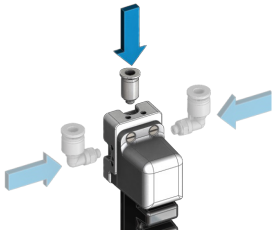


Fixation

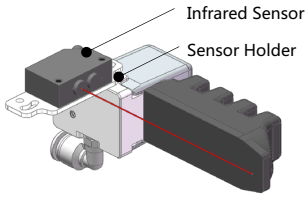




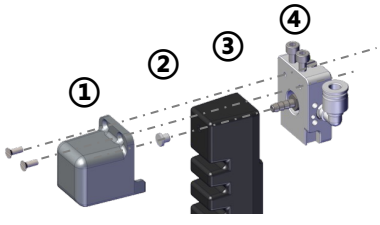
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

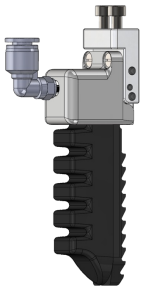
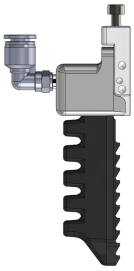
Finger Module

FM -B6V3 / LS8

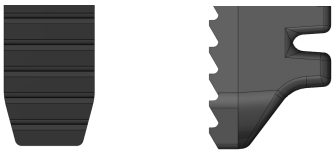
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Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

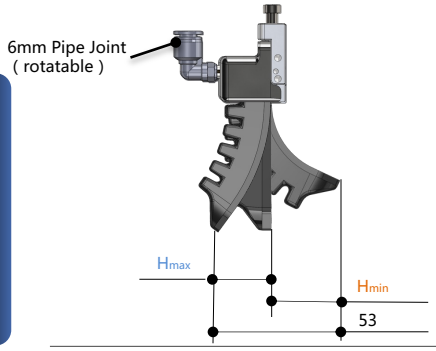


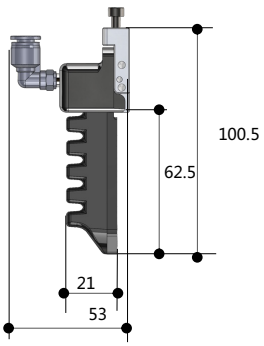
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V3/LS8[P]	FM-B6V3/LS8[PAS]	FM-B6V3/LS8[H]	FM-B6V3/LS8[HAS]

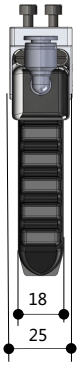
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	55	30	17	⚠ 260	174	55

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



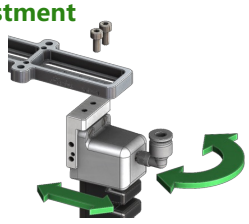




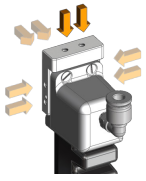
The measuring unit: [mm]

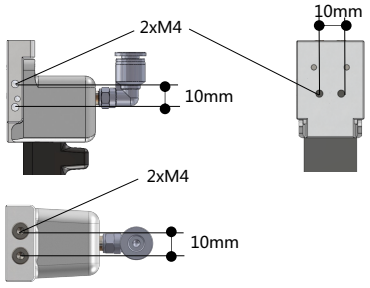
FM

Pose Adjustment



Fixation

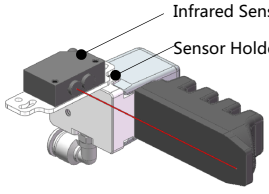




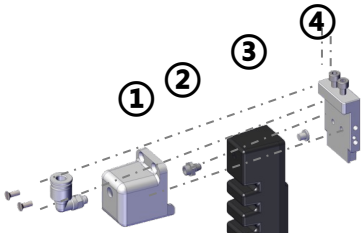
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

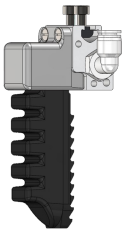
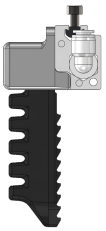
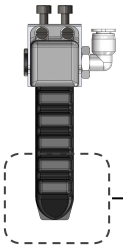
Finger Module

FM -B6V4 / LS8

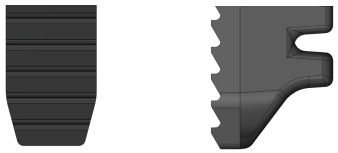
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Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

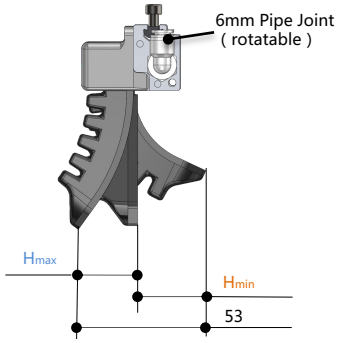


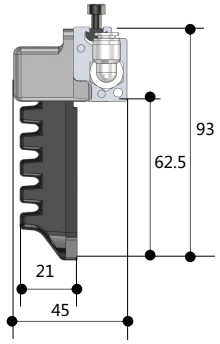
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V4/LS8[P]	FM-B6V4/LS8[PAS]	FM-B6V4/LS8[H]	FM-B6V4/LS8[HAS]

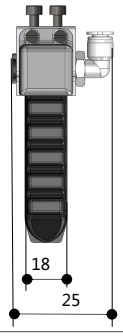
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	73	30	17	⚠ 260	174	73

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



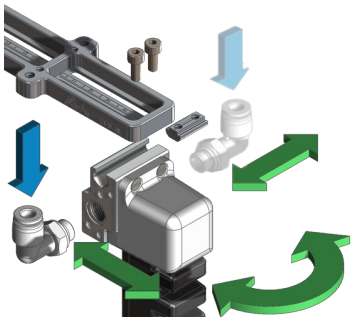




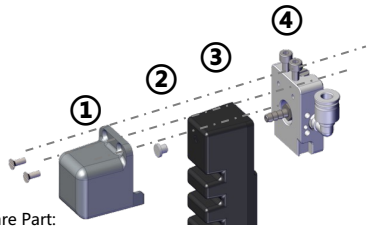
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



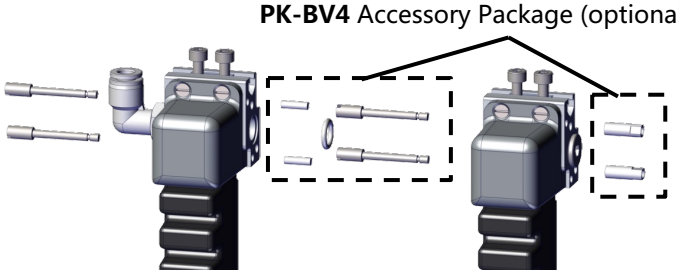
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





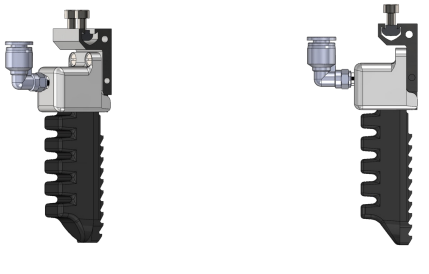
Finger Module

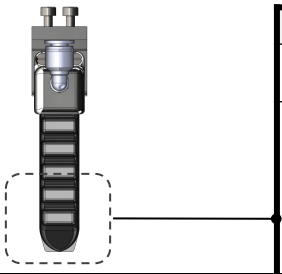
FM -B6V5 / LS8

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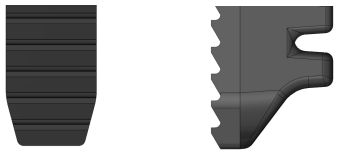
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Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

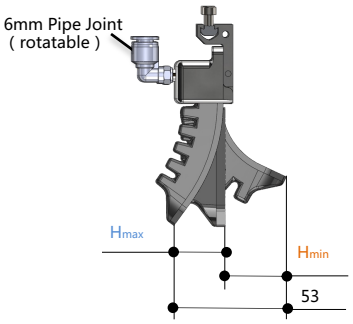


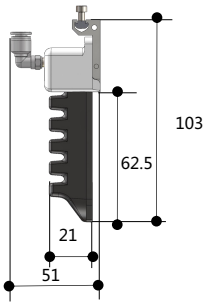
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V5/LS8[P]	FM-B6V5/LS8[PAS]	FM-B6V5/LS8[H]	FM-B6V5/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	56	30	17	⚠ 260	174	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



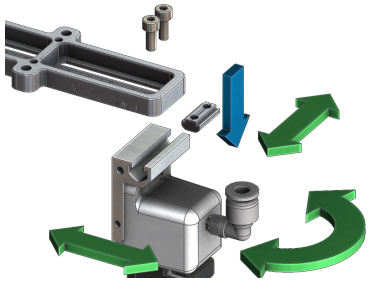




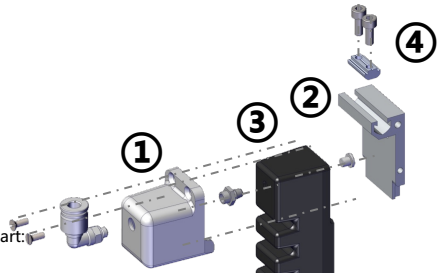
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



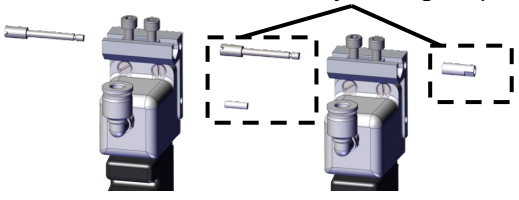
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

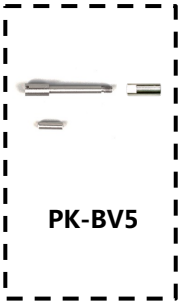
Series combination:

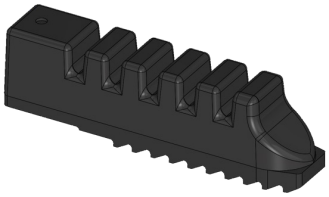
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

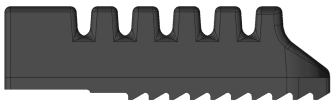
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B6T/LS8[P]	F-B6T/LS8[PAS]	F-B6T/LS8[H]	F-B6T/LS8[HAS]

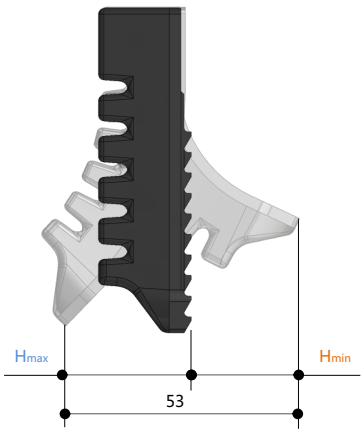
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠120	144	24	30	17	⚠260	174	24

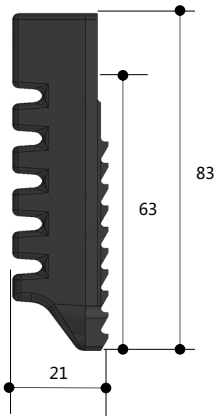
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

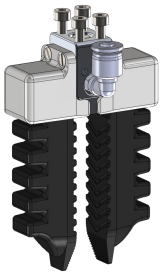
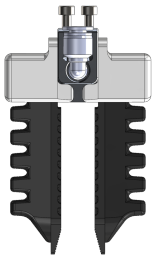
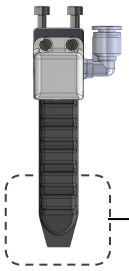
FM

Dimension Parameters

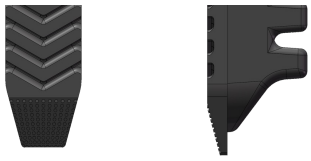






Finger Pattern	
FS3	Suitable for soft fabric products.

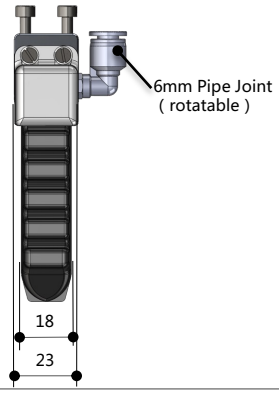


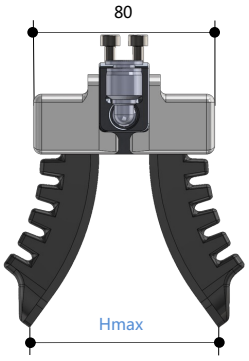
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V1/FS3[P]	FM-B6V1/FS3[PAS]	FM-B6V1/FS3[H]	FM-B6V1/FS3[HAS]

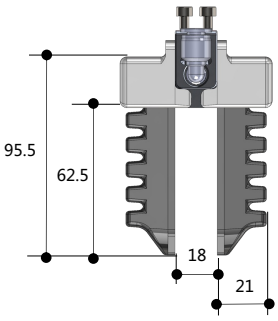
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	64	⚠ 120	288	102	0	52	⚠ 260	348	102

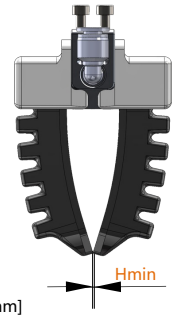
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



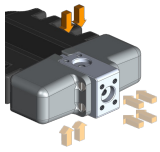


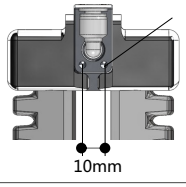


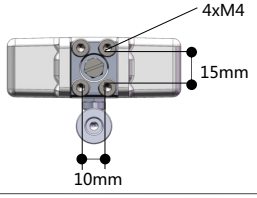


The measuring unit: [mm]

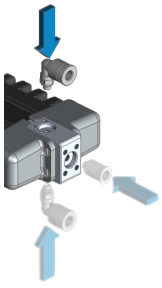
Fixation



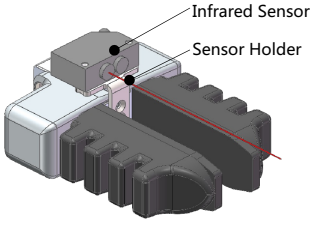




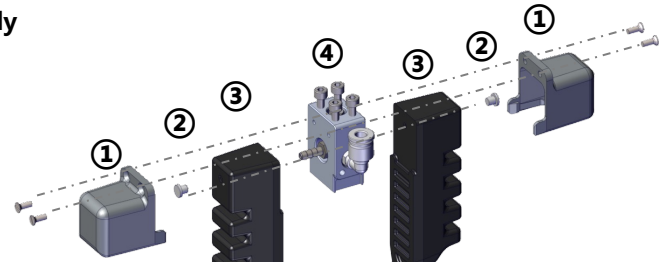
Air Intake



Sensor Installation

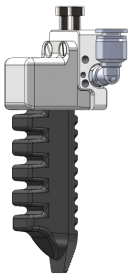


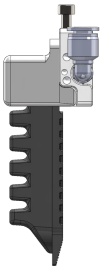
Assembly

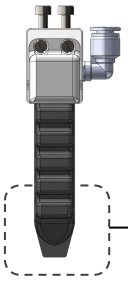


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

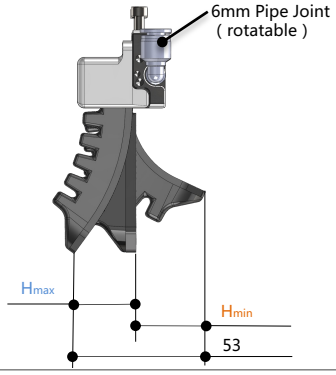


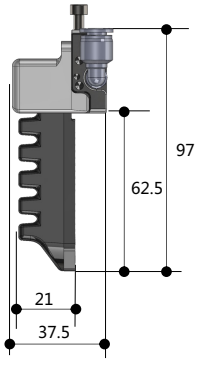
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V2/FS3[P]	FM-B6V2/FS3[PAS]	FM-B6V2/FS3[H]	FM-B6V2/FS3[HAS]

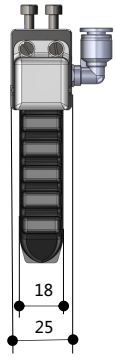
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	64	30	17	⚠ 260	174	64

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



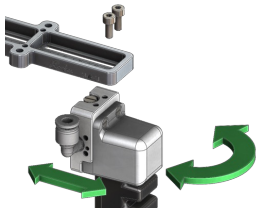




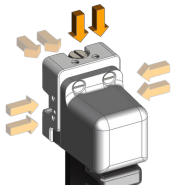
The measuring unit: [mm]

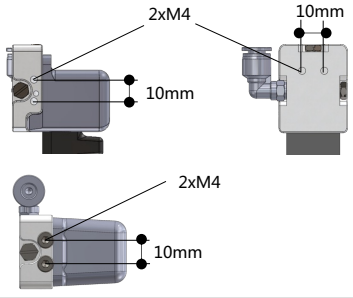
FM

Pose Adjustment

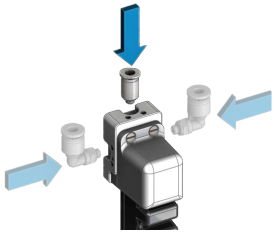


Fixation

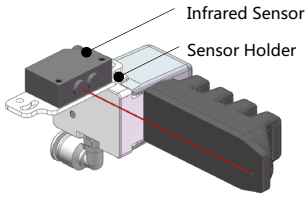




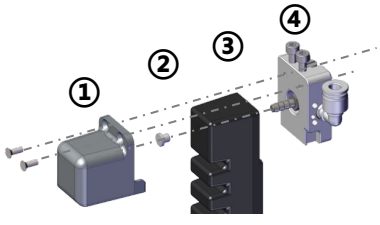
Air Intake



Sensor Installation

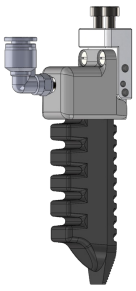
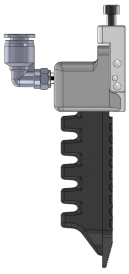
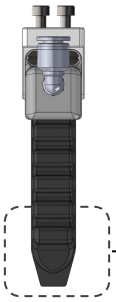


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

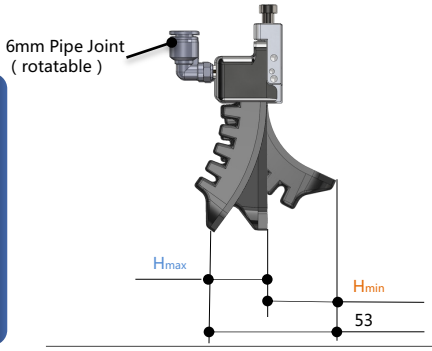


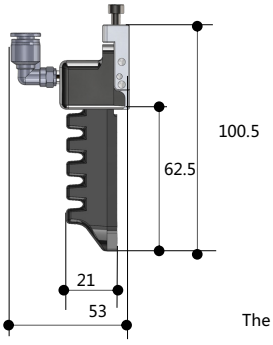
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V3/FS3[P]	FM-B6V3/FS3[PAS]	FM-B6V3/FS3[H]	FM-B6V3/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	55	30	17	⚠ 260	174	55

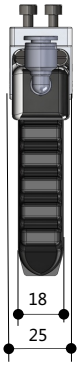
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



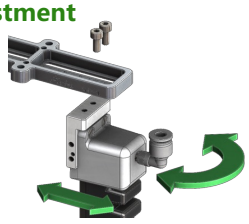


The measuring unit: [mm]

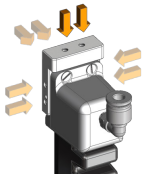


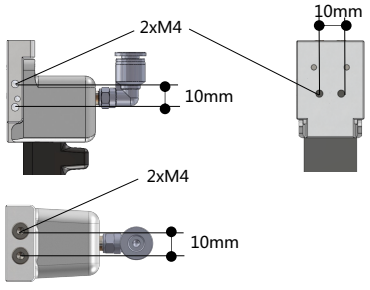
FM

Pose Adjustment



Fixation

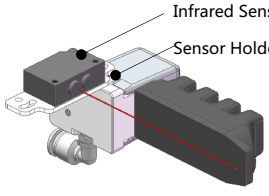




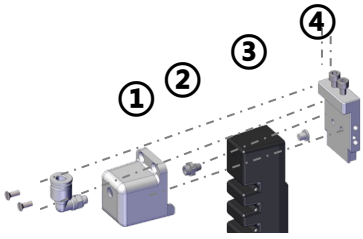
Air Intake



Sensor Installation

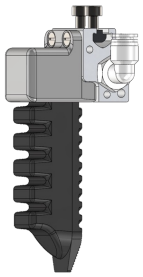
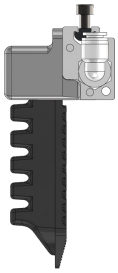
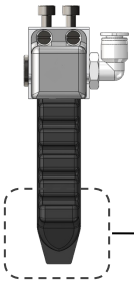


Assembly

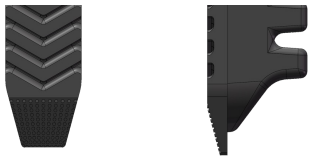


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

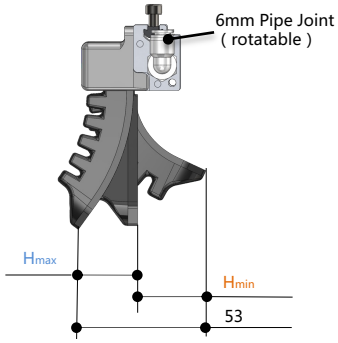


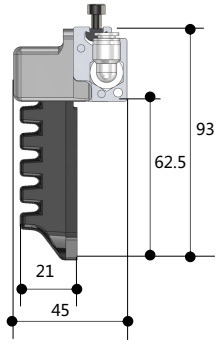
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V4/FS3[P]	FM-B6V4/FS3[PAS]	FM-B6V4/FS3[H]	FM-B6V4/FS3[HAS]

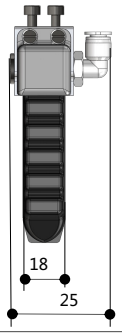
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	73	30	17	⚠ 260	174	73

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

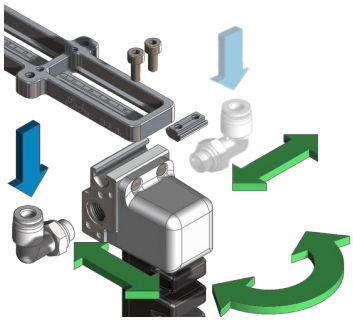




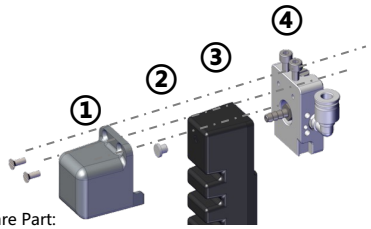


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



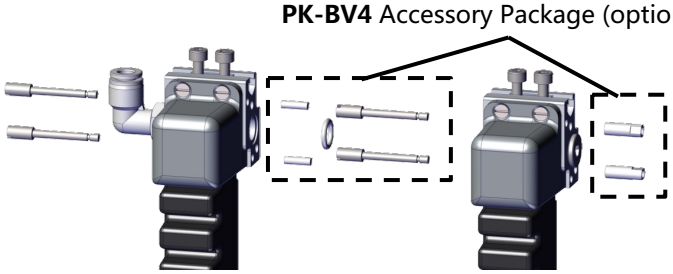
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

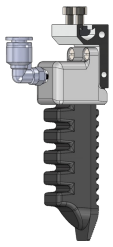
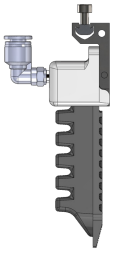
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





FM


Finger Pattern	
FS3	Suitable for soft fabric products.

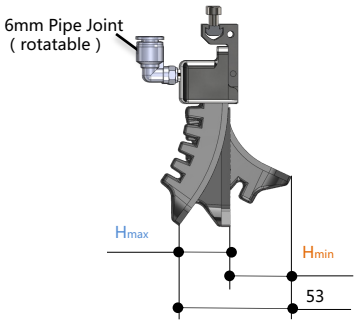


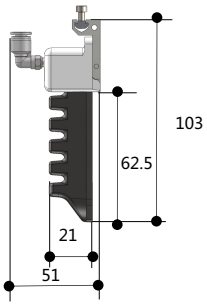

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B6V5/FS3[P]	FM-B6V5/FS3[PAS]	FM-B6V5/FS3[H]	FM-B6V5/FS3[HAS]

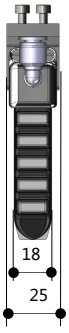
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠ 120	144	56	30	17	⚠ 260	174	56

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

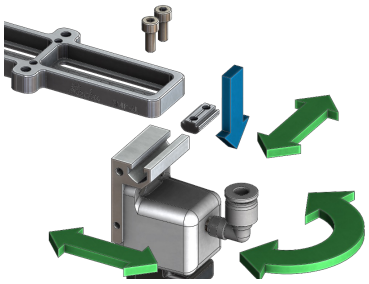




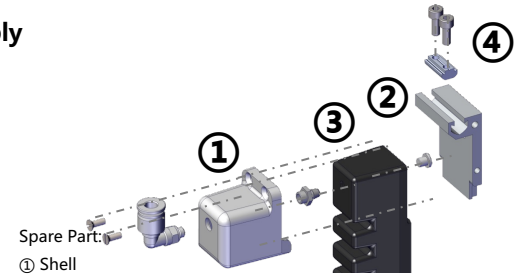


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



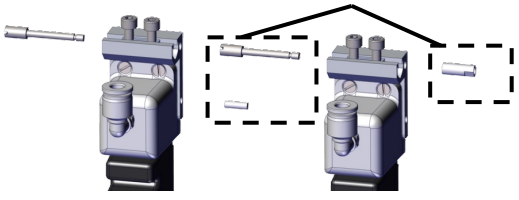
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

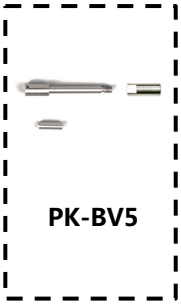
Series combination:

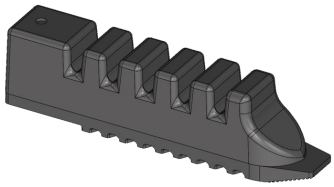
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B6T/FS3[P]	F-B6T/FS3[PAS]	F-B6T/FS3[H]	F-B6T/FS3[HAS]

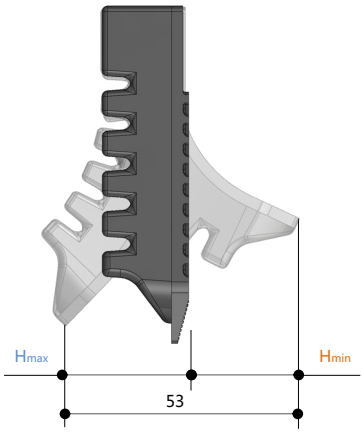
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
30	23	⚠120	144	24	30	17	⚠260	174	24

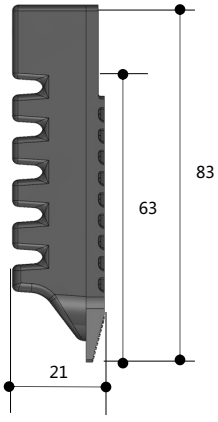
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

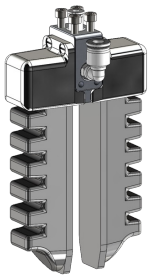
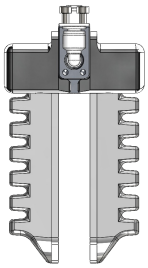
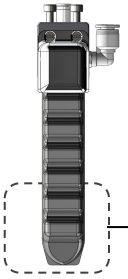
FM

Dimension Parameters







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



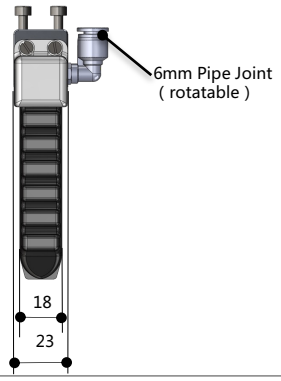
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B7V1/LS1[P]	FM-B7V1/LS1[PAS]	FM-B7V1/LS1[H]	FM-B7V1/LS1[HAS]

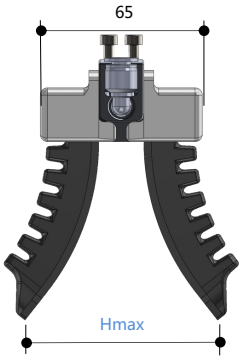
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	78	⚠ 120	158	110	0	60	⚠ 260	276	110

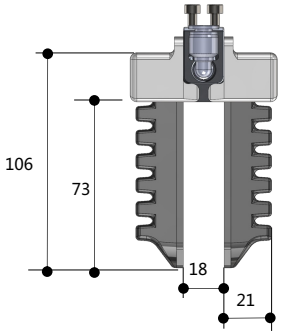
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

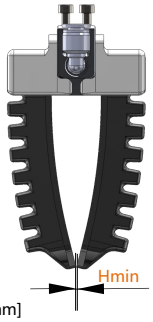
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



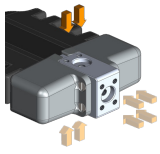


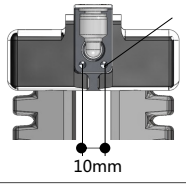


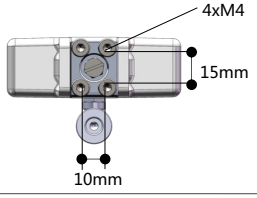


The measuring unit: [mm]

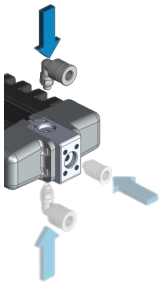
Fixation



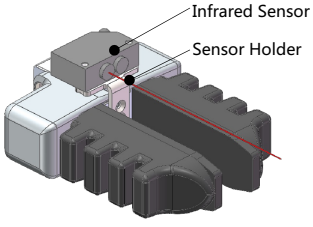




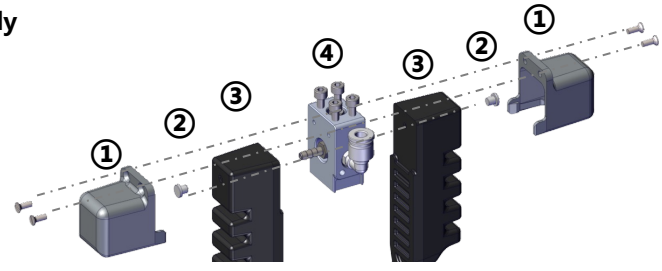
Air Intake



Sensor Installation

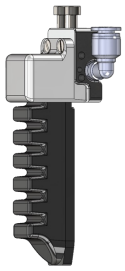


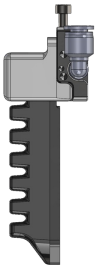
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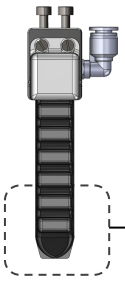


Spare Part:

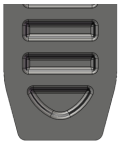
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



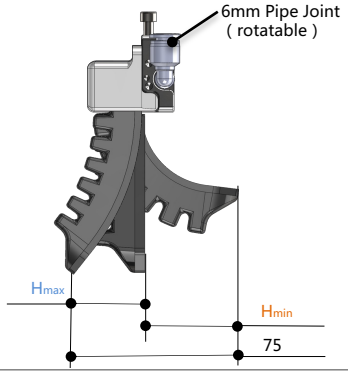


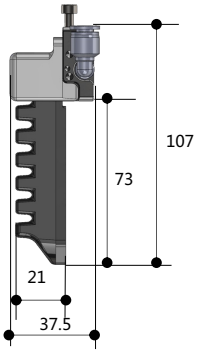
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B7V2/LS1[P]	FM-B7V2/LS1[PAS]	FM-B7V2/LS1[H]	FM-B7V2/LS1[HAS]

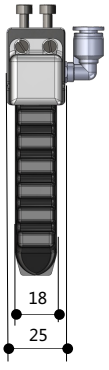
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
45	30	⚠ 120	79	68	45	21	⚠ 260	138	68

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

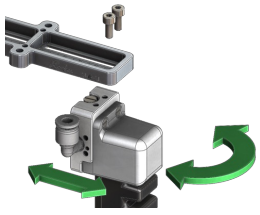




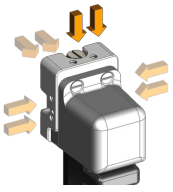


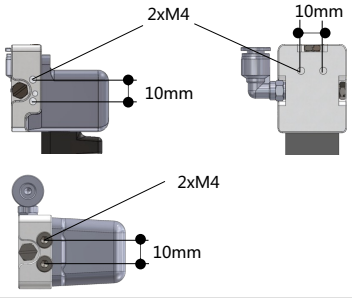
The measuring unit: [mm]

Pose Adjustment

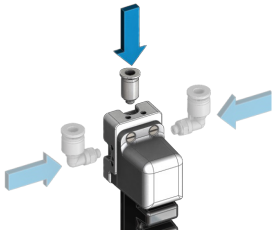


Fixation

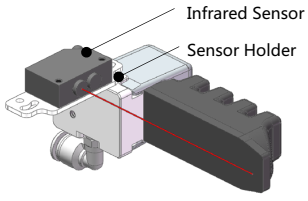




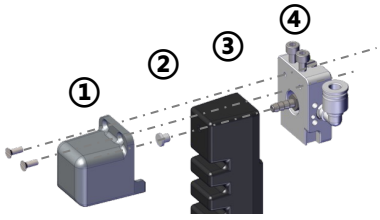
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

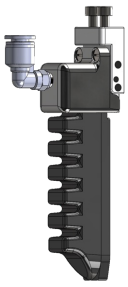
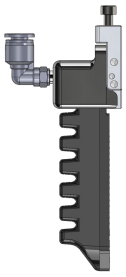
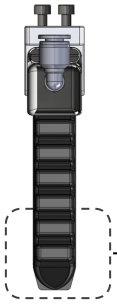
Finger Module

FM -B7V3 / LS1

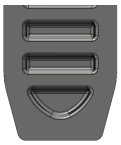
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

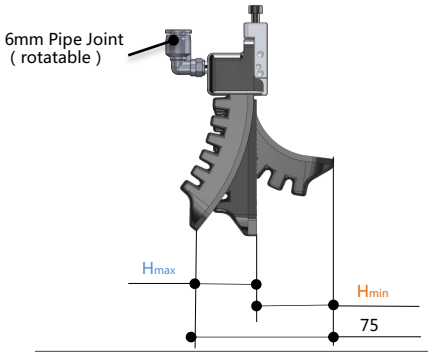


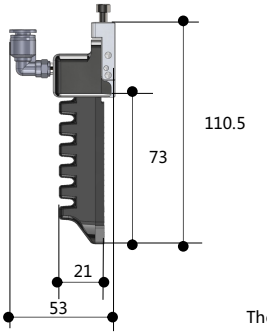

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B7V3/LS1[P]	FM-B7V3/LS1[PAS]	FM-B7V3/LS1[H]	FM-B7V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
45	30	⚠120	79	105	45	21	⚠260	138	105

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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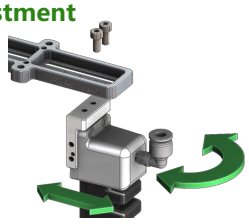




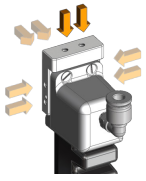
The measuring unit: [mm]

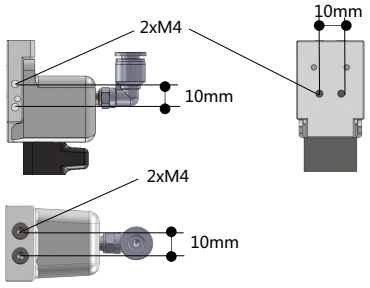
FM

Pose Adjustment



Fixation

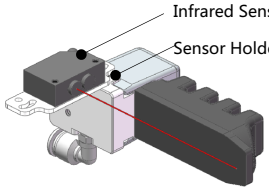




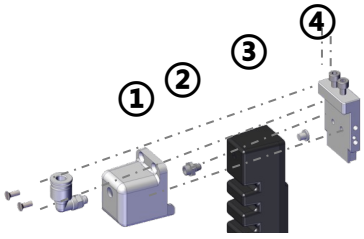
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

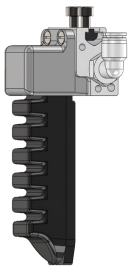
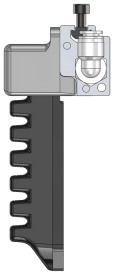
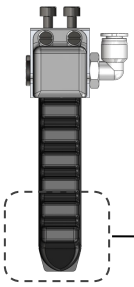
Finger Module

FM -B7V4 / LS1

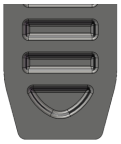
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

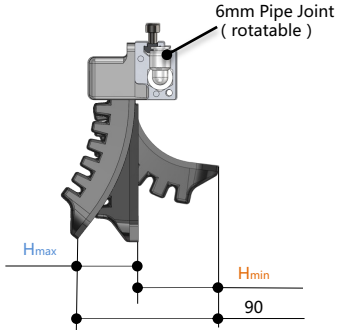


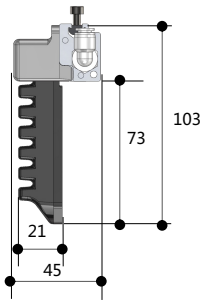

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B7V4/LS1[P]	FM-B7V4/LS1[PAS]	FM-B7V4/LS1[H]	FM-B7V4/LS1[HAS]

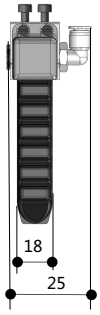
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
45	30	⚠ 120	79	77	45	21	⚠ 260	138	77

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



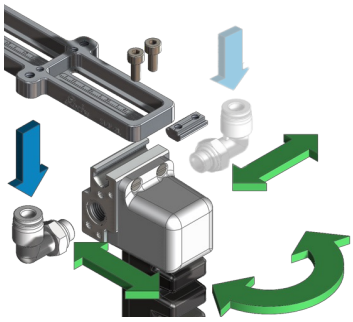




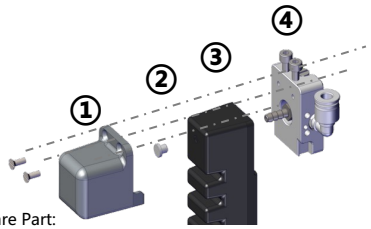
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



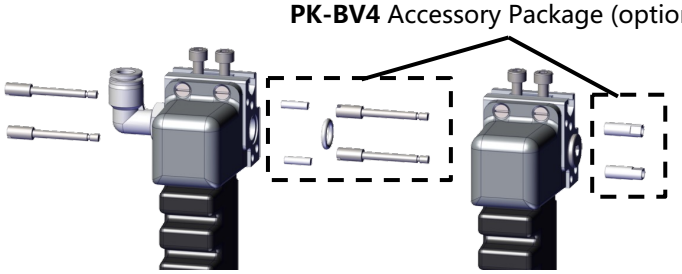
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





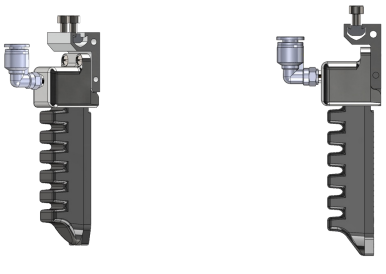
Finger Module

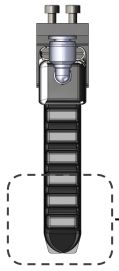
FM -B7V5 / LS1

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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

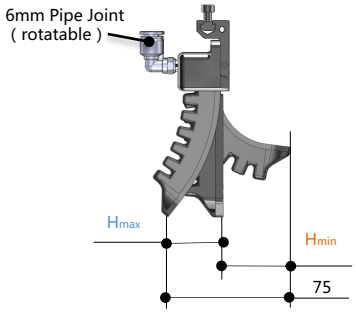


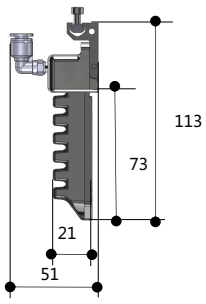
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B7V5/LS1[P]	FM-B7V5/LS1[PAS]	FM-B7V5/LS1[H]	FM-B7V5/LS1[HAS]

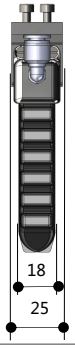
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
45	30	⚠ 120	79	60	45	21	⚠ 260	138	60

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



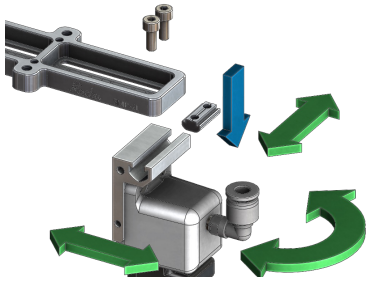




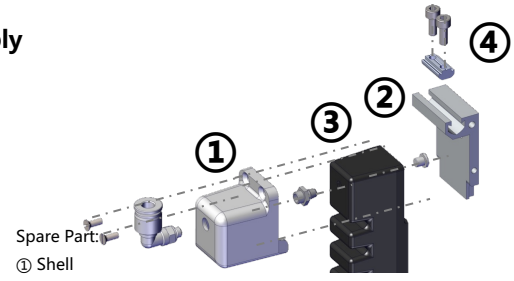
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



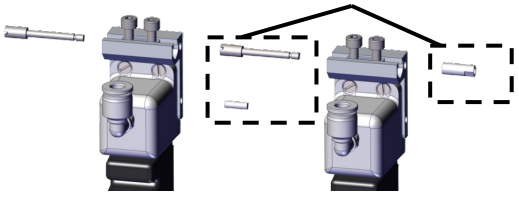
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

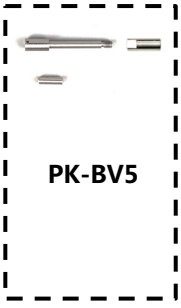
Series combination:

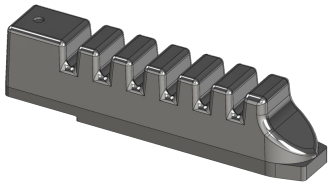
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

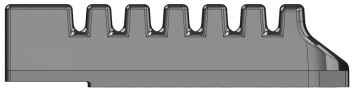
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B7T/LS1[P]	F-B7T/LS1[PAS]	F-B7T/LS1[H]	F-B7T/LS1[HAS]

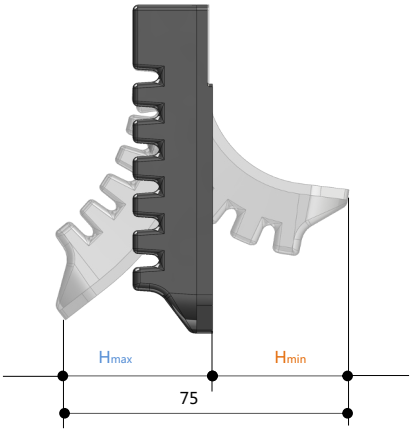
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
45	30	⚠120	79	28	45	21	⚠260	138	28

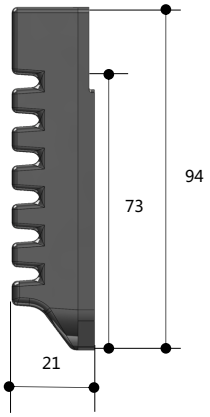
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

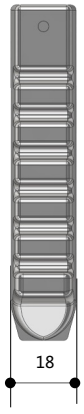
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







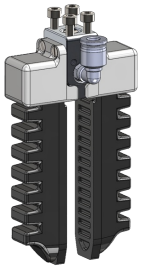
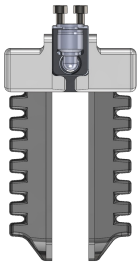
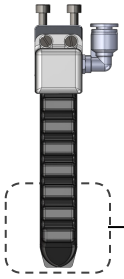
Finger Module

FM -B8V1 / LS1

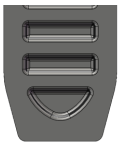
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



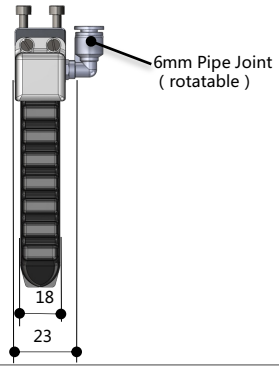

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V1/LS1[P]	FM-B8V1/LS1[PAS]	FM-B8V1/LS1[H]	FM-B8V1/LS1[HAS]

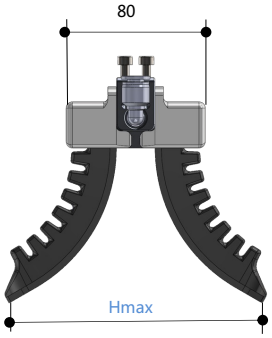
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	92	⚠ 120	216	118	0	68	⚠ 260	288	118

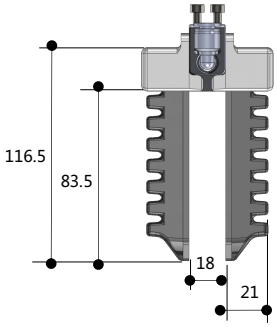
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

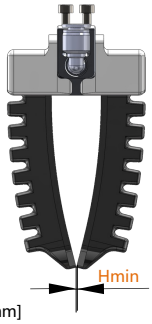
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



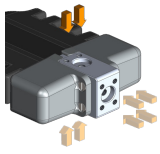


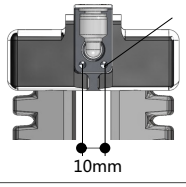


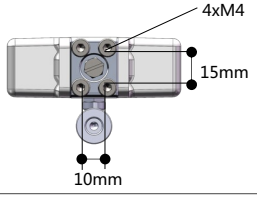


The measuring unit: [mm]

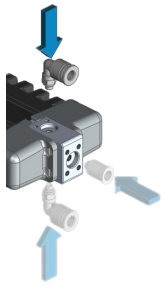
Fixation



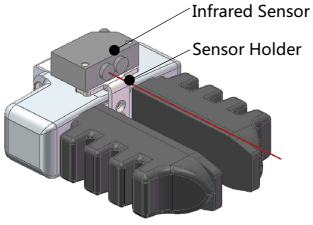




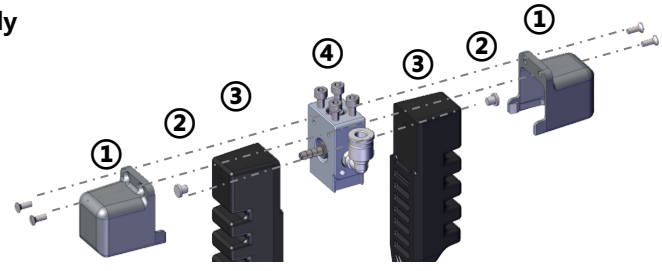
Air Intake



Sensor Installation

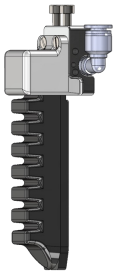


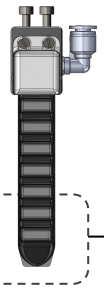
Assembly



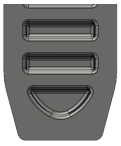
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

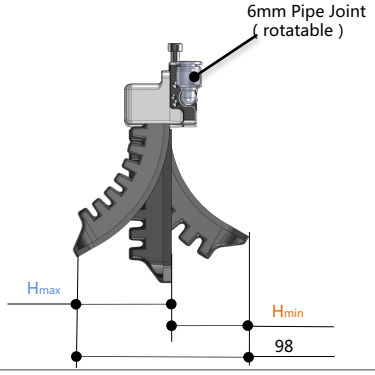


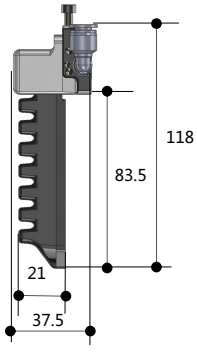

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V2/LS1[P]	FM-B8V2/LS1[PAS]	FM-B8V2/LS1[H]	FM-B8V2/LS1[HAS]

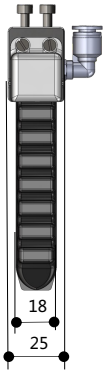
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	72	61	25	⚠260	144	72

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

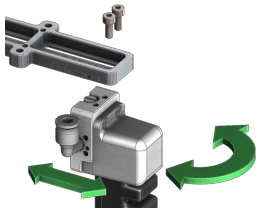




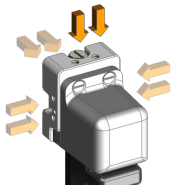


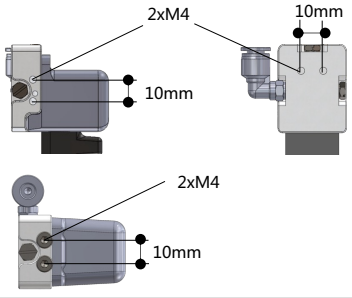
The measuring unit: [mm]

Pose Adjustment

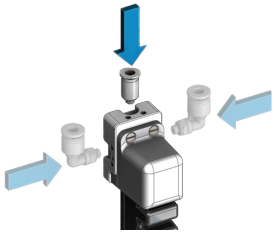


Fixation

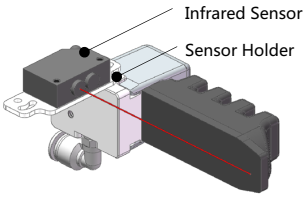




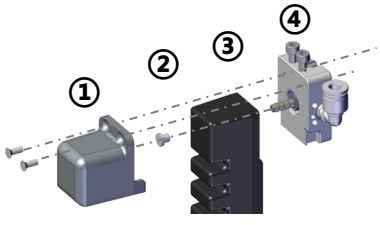
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

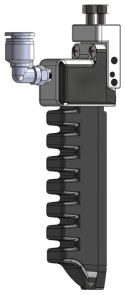
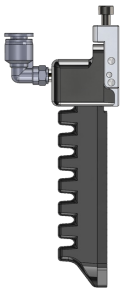
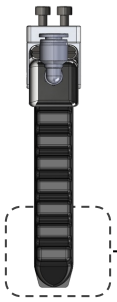
Finger Module

FM -B8V3 / LS1

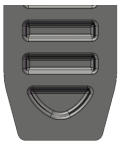
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

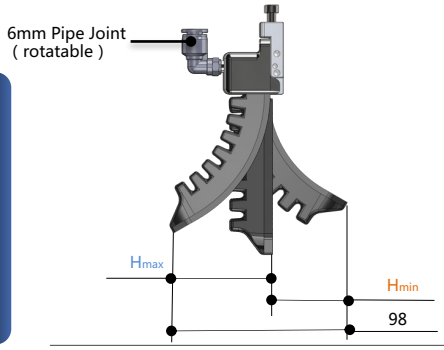


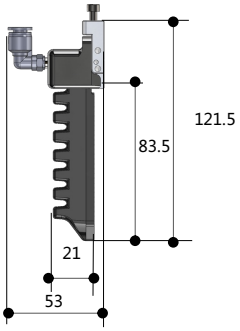

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V3/LS1[P]	FM-B8V3/LS1[PAS]	FM-B8V3/LS1[H]	FM-B8V3/LS1[HAS]

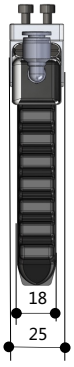
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	63	61	25	⚠260	144	63

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



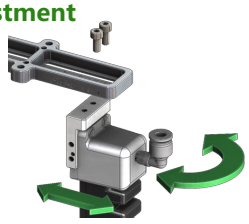




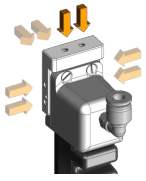
The measuring unit: [mm]

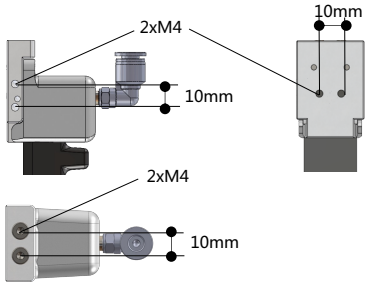
FM

Pose Adjustment



Fixation

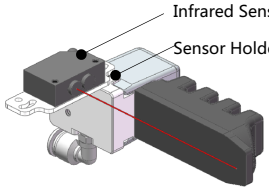




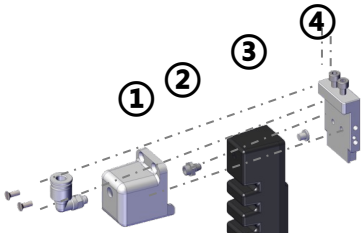
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

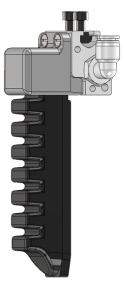
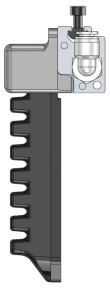
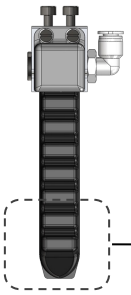
Finger Module

FM -B8V4 / LS1

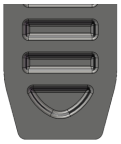
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

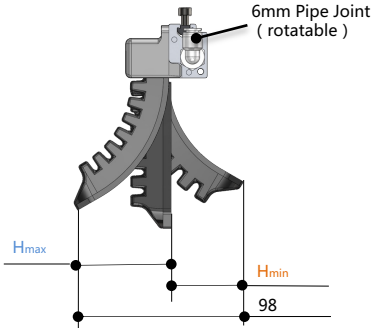


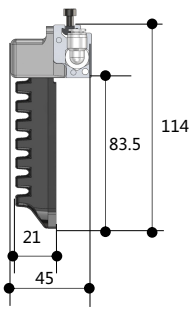

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V4/LS1[P]	FM-B8V4/LS1[PAS]	FM-B8V4/LS1[H]	FM-B8V4/LS1[HAS]

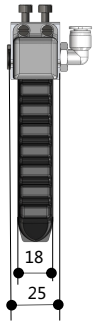
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠ 120	108	81	61	25	⚠ 260	144	81

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



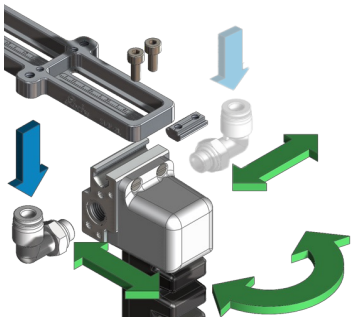




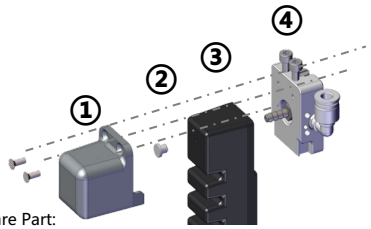
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



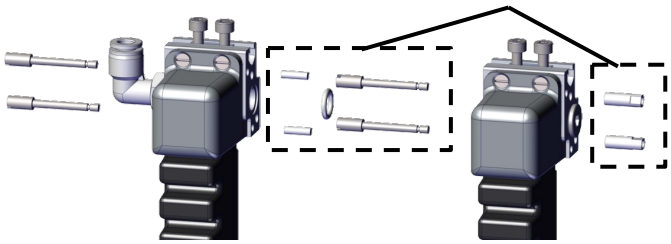
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





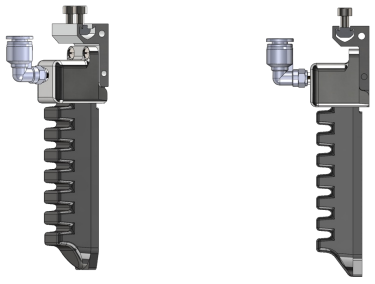
Finger Module

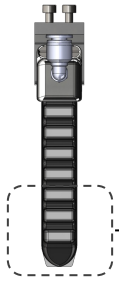
FM -B8V5 / LS1

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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

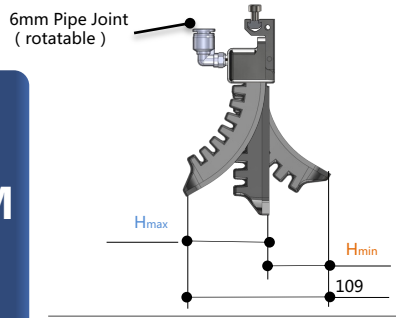


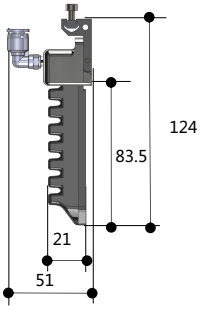
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V5/LS1[P]	FM-B8V5/LS1[PAS]	FM-B8V5/LS1[H]	FM-B8V5/LS1[HAS]

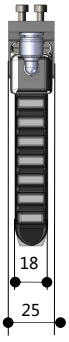
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠ 120	108	64	61	25	⚠ 260	144	64

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



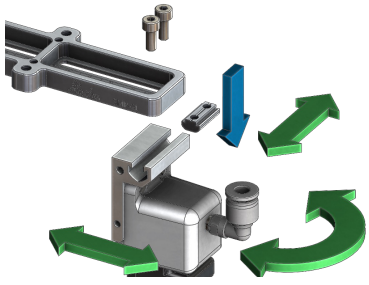




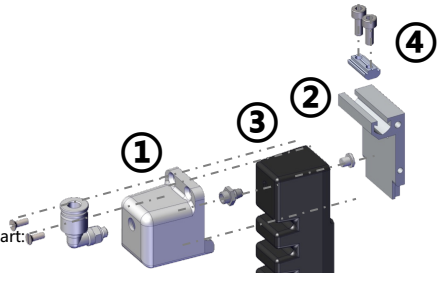
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



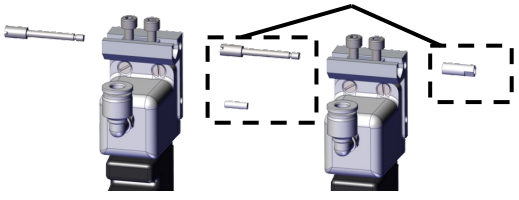
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

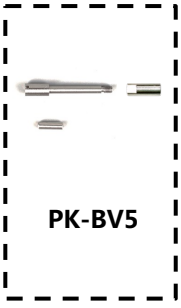
Series combination:

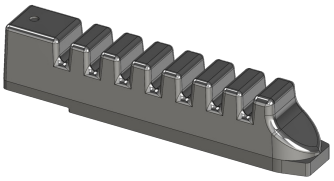
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

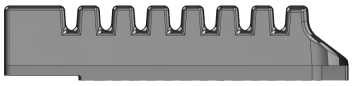
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

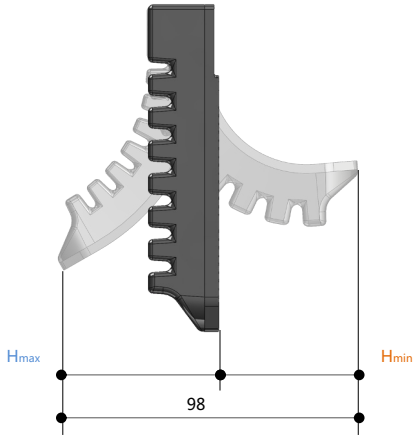
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B8T/LS1[P]	F-B8T/LS1[PAS]	F-B8T/LS1[H]	F-B8T/LS1[HAS]

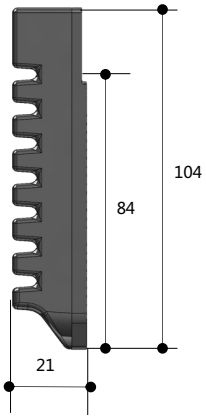
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	g 108	32	61	25	⚠260	g 144	32

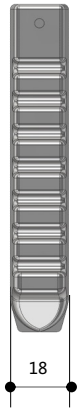
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

Dimension Parameters







FM

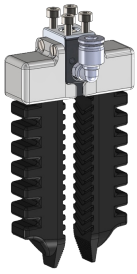
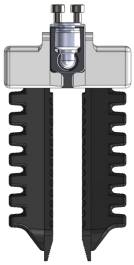
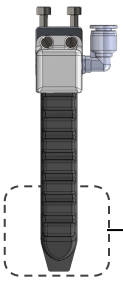
Finger Module

FM -B8V1 / FS3

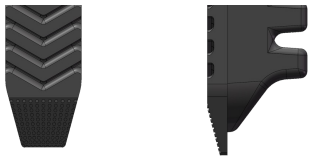
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Finger Pattern	
FS3	Suitable for soft fabric products.

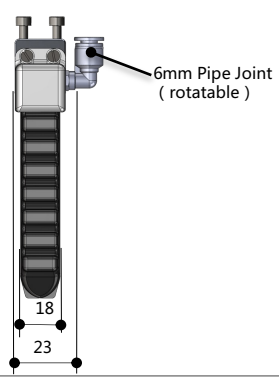


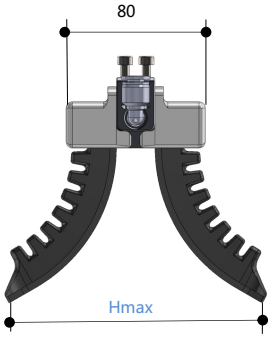
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V1/FS3[P]	FM-B8V1/FS3[PAS]	FM-B8V1/FS3[H]	FM-B8V1/FS3[HAS]

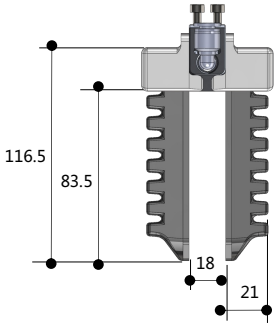
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	92	⚠ 120	216	118	0	68	⚠ 260	288	118

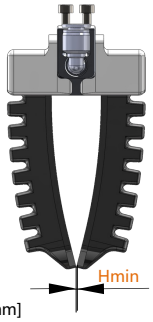
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





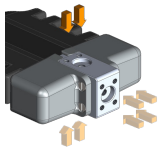


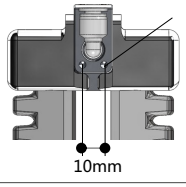


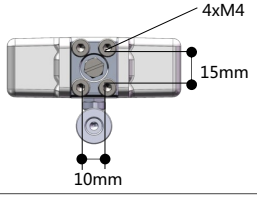
The measuring unit: [mm]

FM

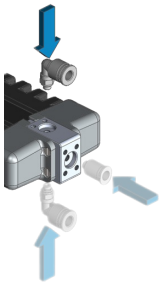
Fixation



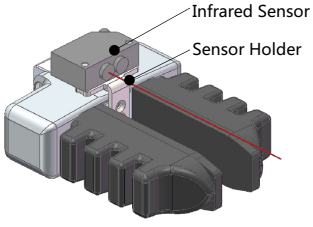




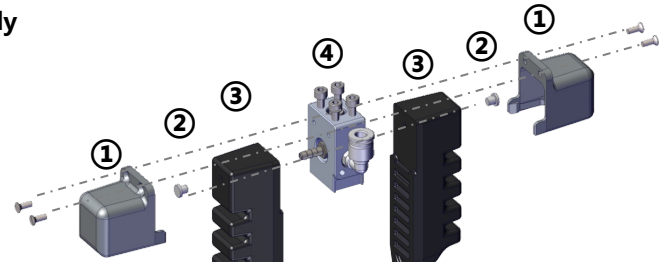
Air Intake



Sensor Installation

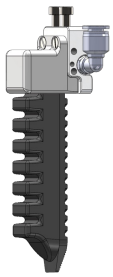
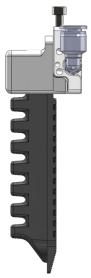
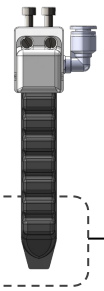


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

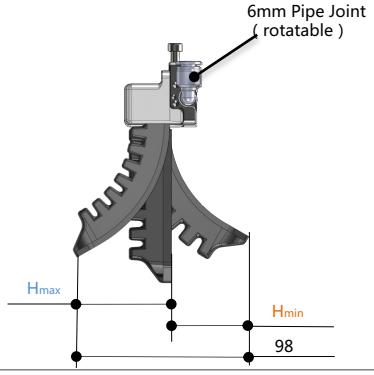


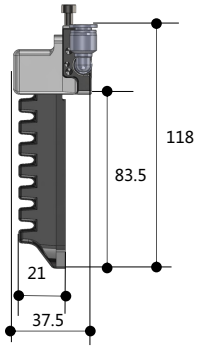

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V2/FS3[P]	FM-B8V2/FS3[PAS]	FM-B8V2/FS3[H]	FM-B8V2/FS3[HAS]

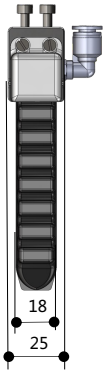
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	72	61	25	⚠260	144	72

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

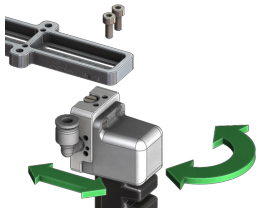




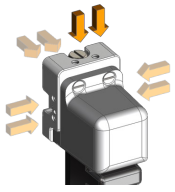


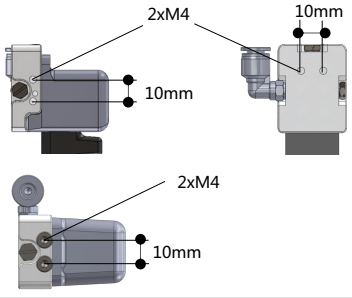
The measuring unit: [mm]

Pose Adjustment

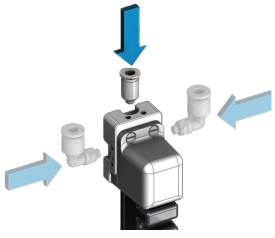


Fixation

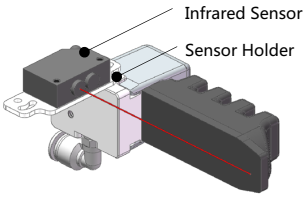




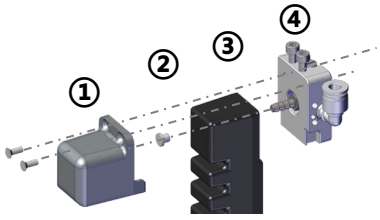
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

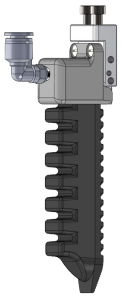
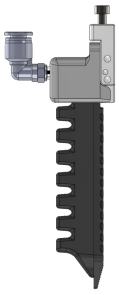
Finger Module

FM -B8V3 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

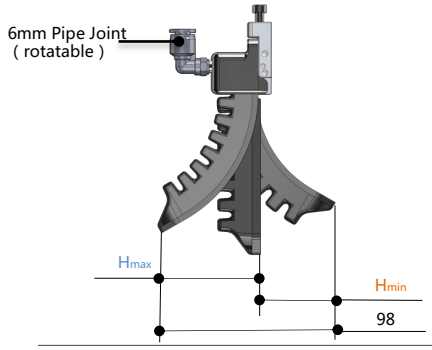


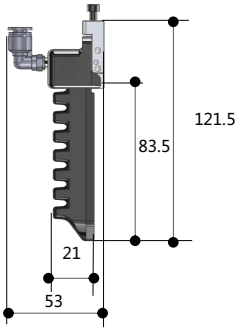

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V3/FS3[P]	FM-B8V3/FS3[PAS]	FM-B8V3/FS3[H]	FM-B8V3/FS3[HAS]

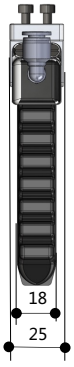
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠ 120	108	63	61	25	⚠ 260	144	63

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



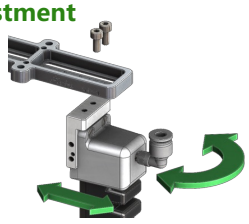




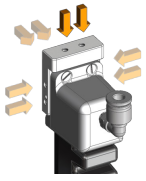
The measuring unit: [mm]

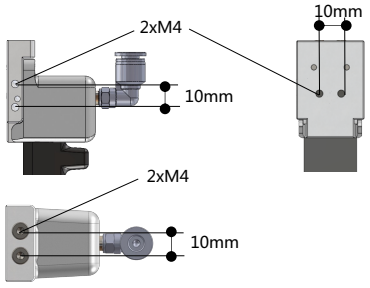
FM

Pose Adjustment



Fixation

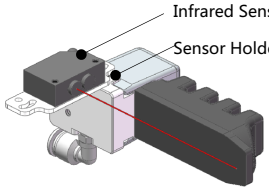




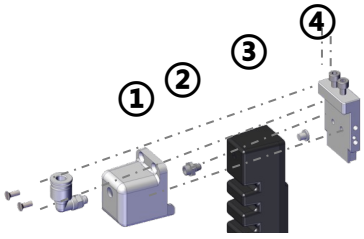
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

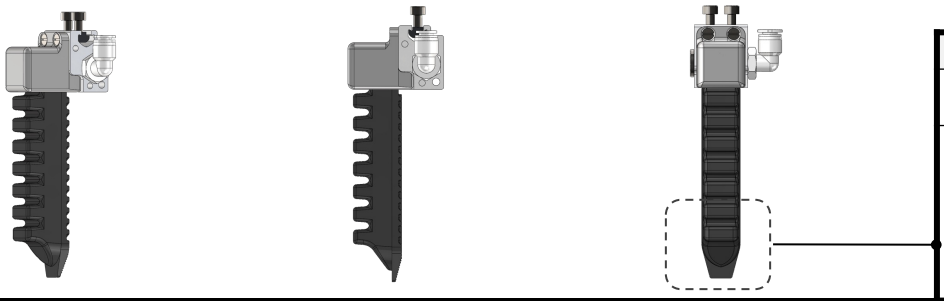
Finger Module

FM -B8V4 / FS3

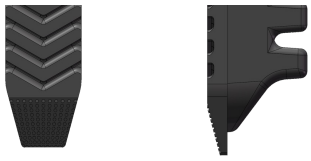
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Finger Pattern	
FS3	Suitable for soft fabric products.

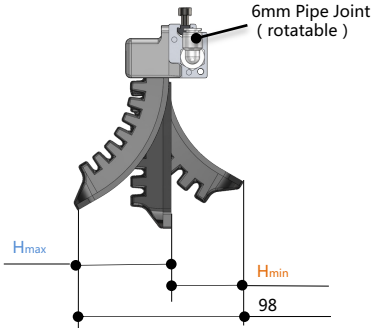


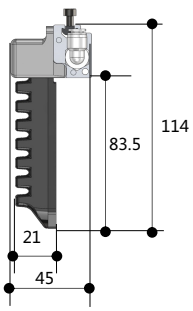
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V4/FS3[P]	FM-B8V4/FS3[PAS]	FM-B8V4/FS3[H]	FM-B8V4/FS3[HAS]

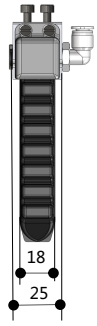
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	81	61	25	⚠260	144	81

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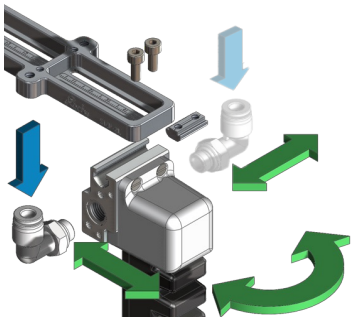




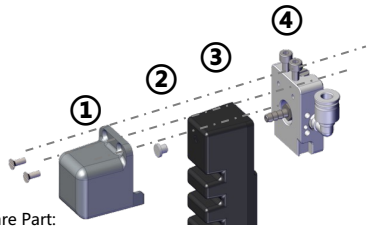
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



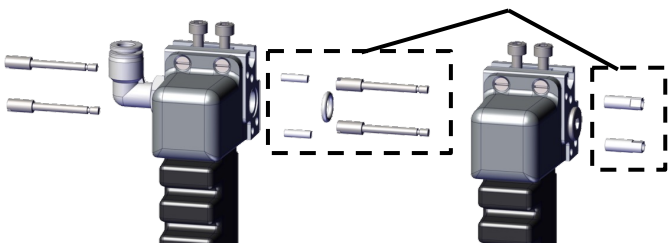
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





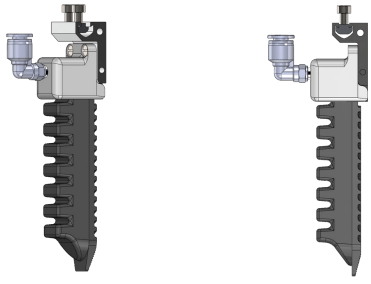
Finger Module

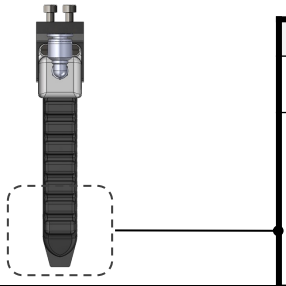
FM -B8V5 / FS3

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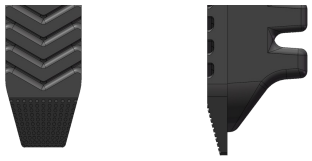
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Finger Pattern	
FS3	Suitable for soft fabric products.

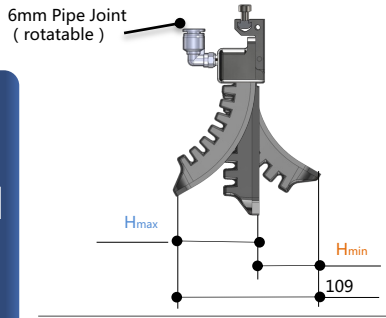


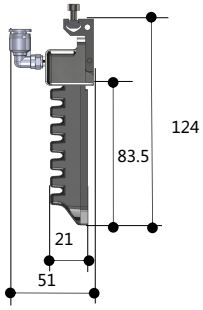
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V5/FS3[P]	FM-B8V5/FS3[PAS]	FM-B8V5/FS3[H]	FM-B8V5/FS3[HAS]

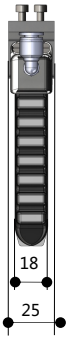
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠ 120	108	64	61	25	⚠ 260	144	64

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



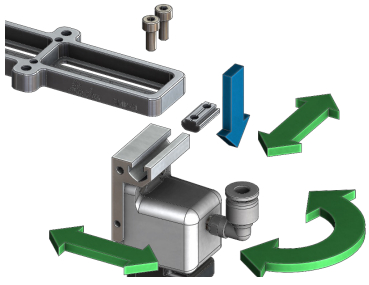




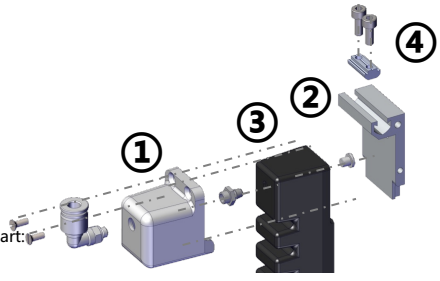
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



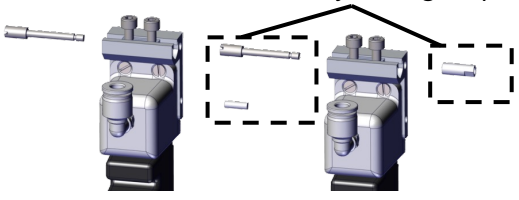
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

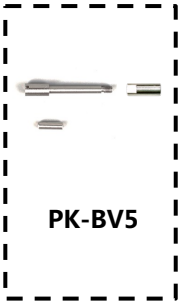
Series combination:

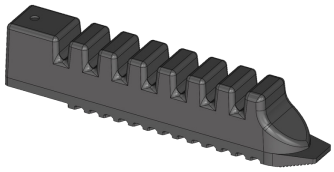
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV5 Accessory Package (optional)











Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B8T/FS3[P]	F-B8T/FS3[PAS]	F-B8T/FS3[H]	F-B8T/FS3[HAS]

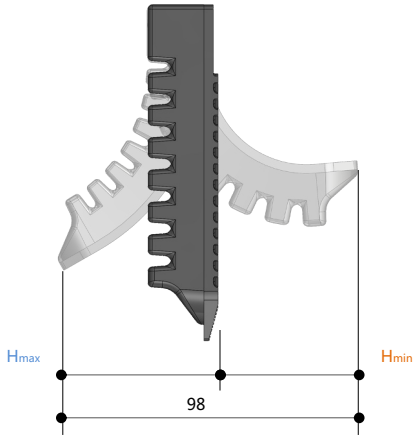
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	32	61	25	⚠260	144	32

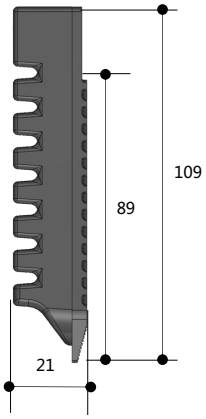
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

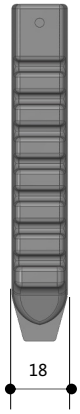
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







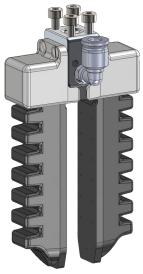
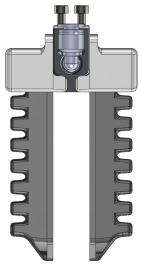
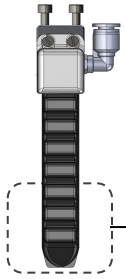
Finger Module

FM -B8V1 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

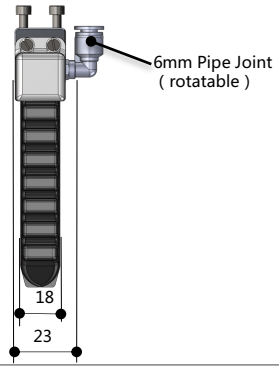


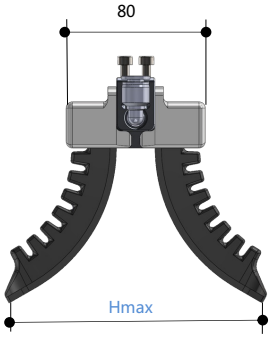
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V1/LF1[P]	FM-B8V1/LF1[PAS]	FM-B8V1/LF1[H]	FM-B8V1/LF1[HAS]

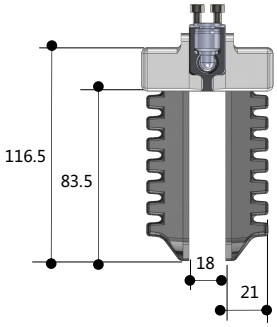
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	92	⚠ 120	216	118	0	68	⚠ 260	288	118

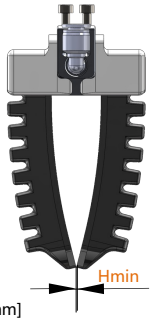
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





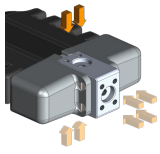


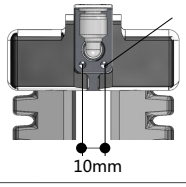


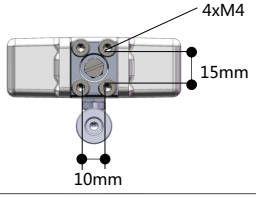
The measuring unit: [mm]

FM

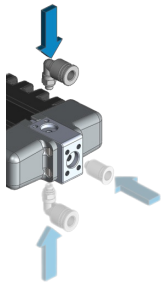
Fixation



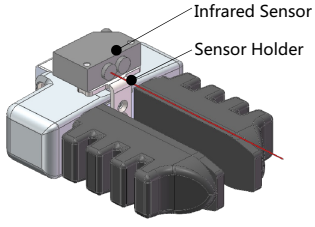




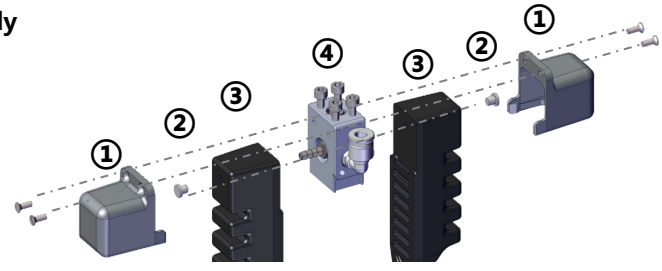
Air Intake



Sensor Installation

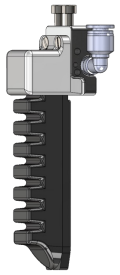


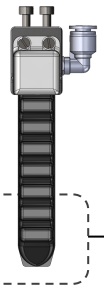
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

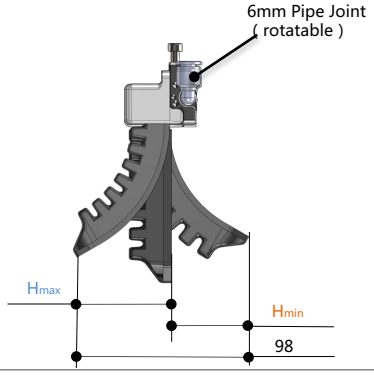


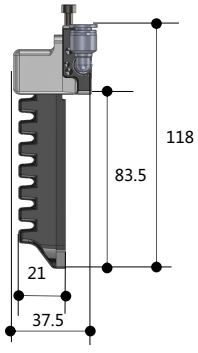
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V2/LF1[P]	FM-B8V2/LF1[PAS]	FM-B8V2/LF1[H]	FM-B8V2/LF1[HAS]

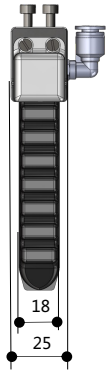
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠ 120	108	72	61	25	⚠ 260	144	72

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

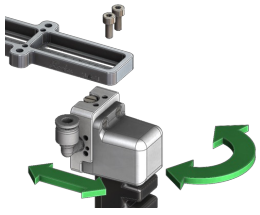




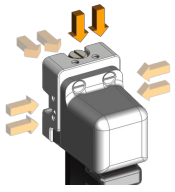


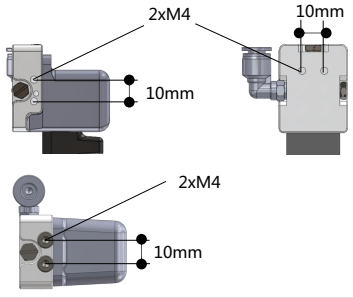
The measuring unit: [mm]

Pose Adjustment

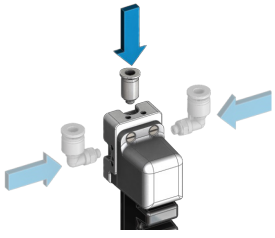


Fixation

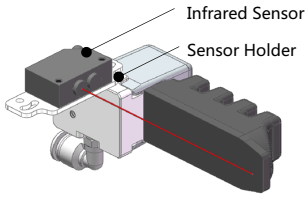




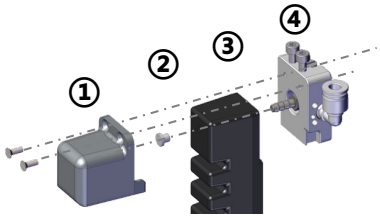
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM

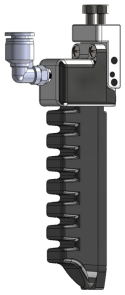
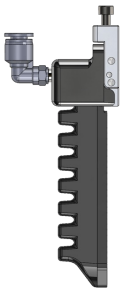
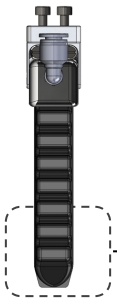
Finger Module

FM -B8V3 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

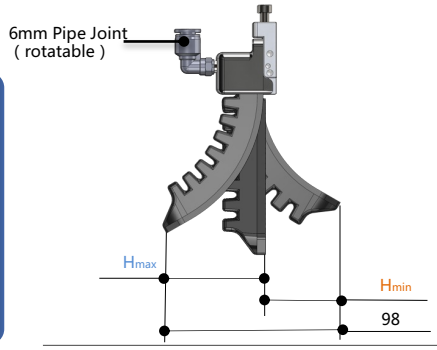


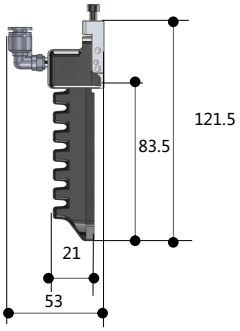
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V3/LF1[P]	FM-B8V3/LF1[PAS]	FM-B8V3/LF1[H]	FM-B8V3/LF1[HAS]

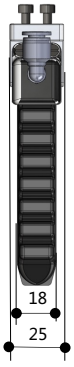
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	63	61	25	⚠260	144	63

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



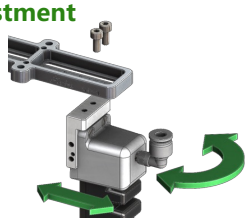




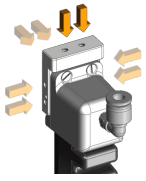
The measuring unit: [mm]

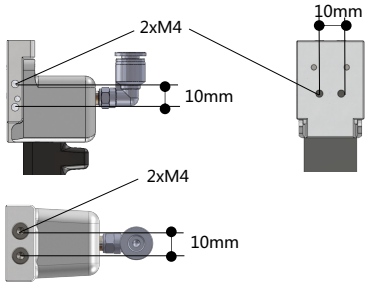
FM

Pose Adjustment



Fixation

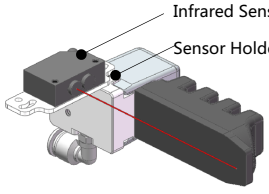




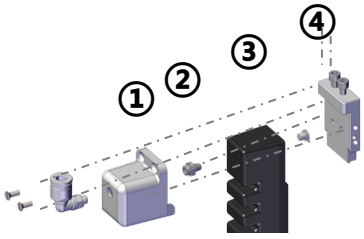
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

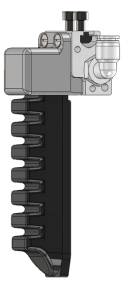
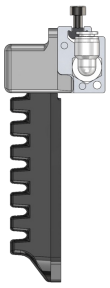
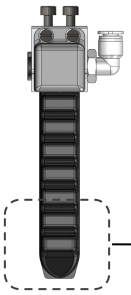
Finger Module

FM -B8V4 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

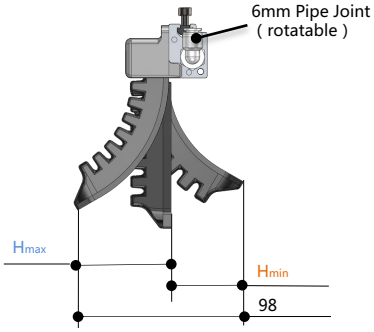


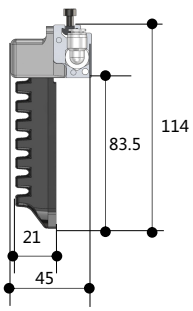
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V4/LF1[P]	FM-B8V4/LF1[PAS]	FM-B8V4/LF1[H]	FM-B8V4/LF1[HAS]

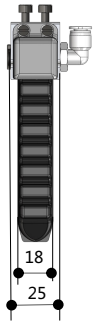
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	81	61	25	⚠260	144	81

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



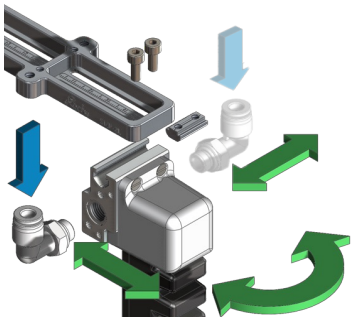




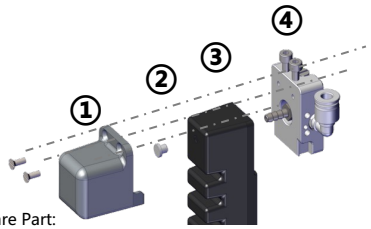
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



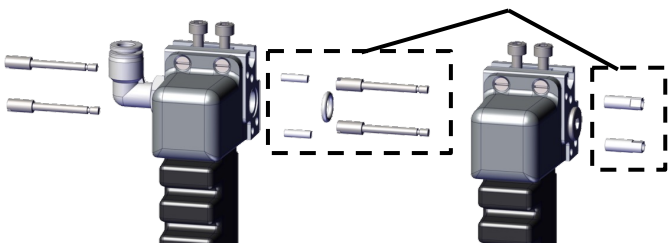
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-BV4 Accessory Package (optional)





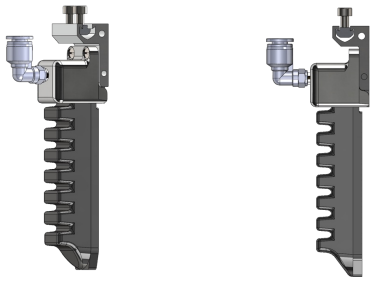
Finger Module

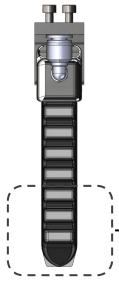
FM -B8V5 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

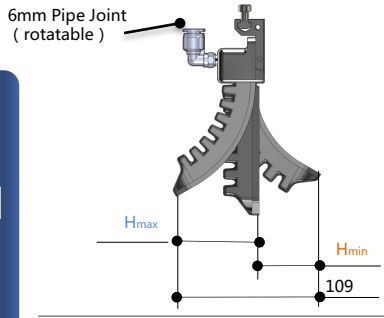


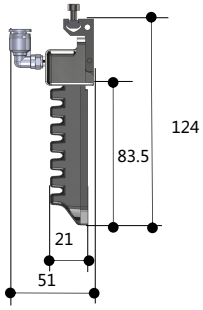
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-B8V5/LF1[P]	FM-B8V5/LF1[PAS]	FM-B8V5/LF1[H]	FM-B8V5/LF1[HAS]

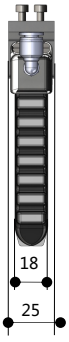
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠ 120	108	64	61	25	⚠ 260	144	64

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



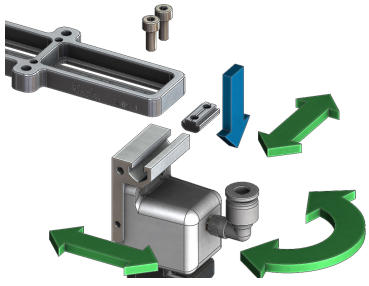




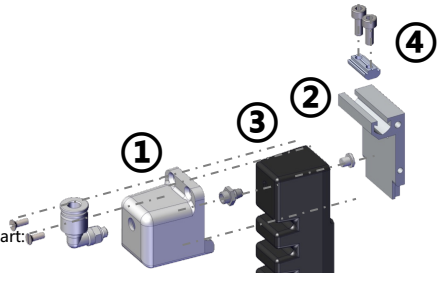
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



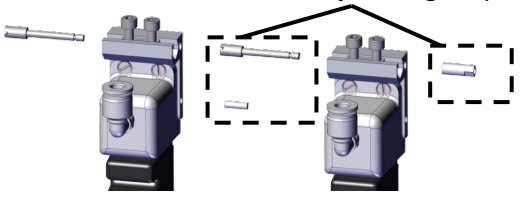
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

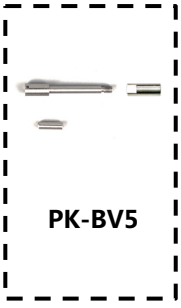
Series combination:

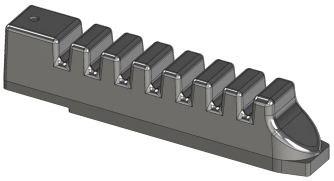
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

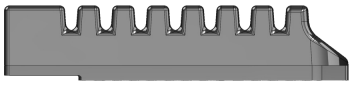
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

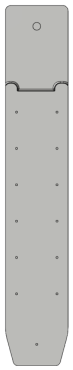
PK-BV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-B8T/LF1[P]	F-B8T/LF1[PAS]	F-B8T/LF1[H]	F-B8T/LF1[HAS]

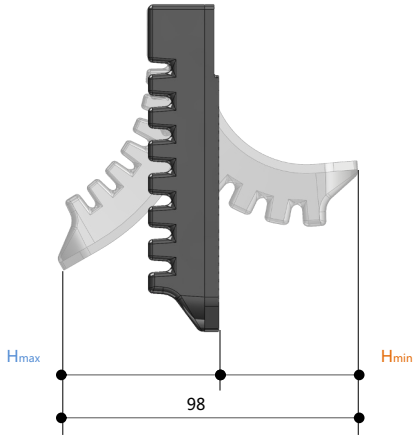
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
61	37	⚠120	108	32	61	25	⚠260	144	32

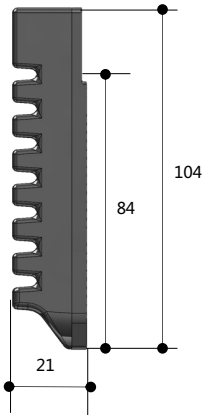
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

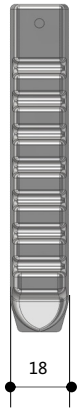
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

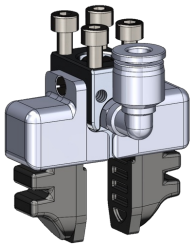
FM

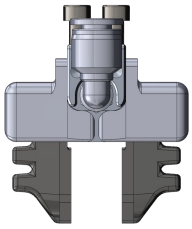
Dimension Parameters

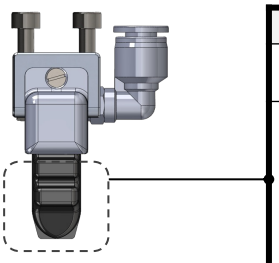












Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



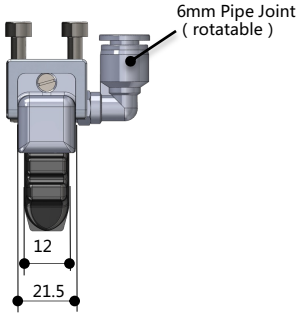
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V1/LS1[P]	FM-C3V1/LS1[PAS]	FM-C3V1/LS1[H]	FM-C3V1/LS1[HAS]

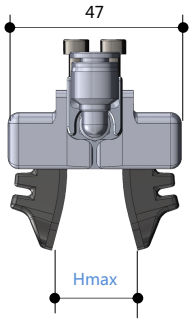
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
4	25	⚠ 120	196	42	4	17	⚠ 220	154	42

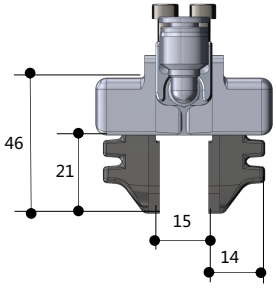
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

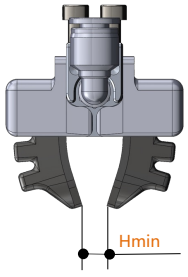
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



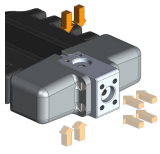


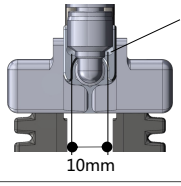


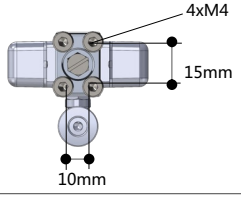


The measuring unit: [mm]

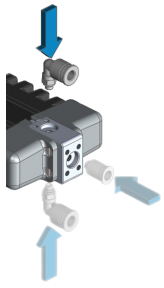
Fixation



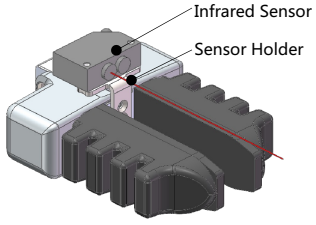




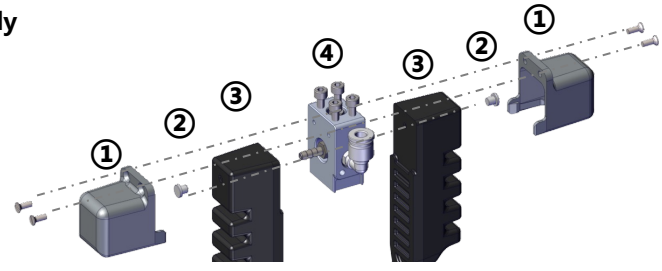
Air Intake



Sensor Installation

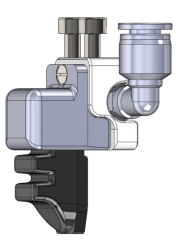
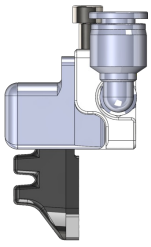
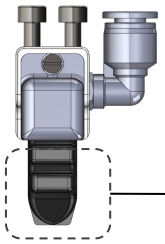


Assembly

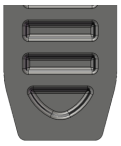


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

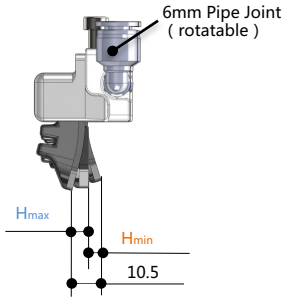


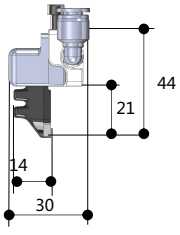

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V2/LS1[P]	FM-C3V2/LS1[PAS]	FM-C3V2/LS1[H]	FM-C3V2/LS1[HAS]

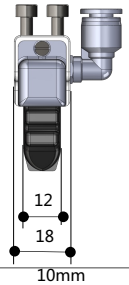
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠120	98	27	5.5	1	⚠220	77	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



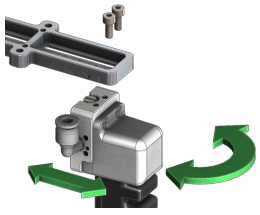




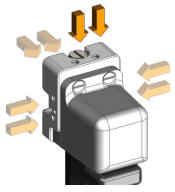
The measuring unit: [mm]

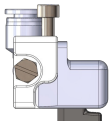
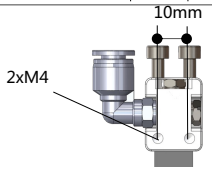
FM

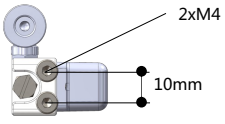
Pose Adjustment



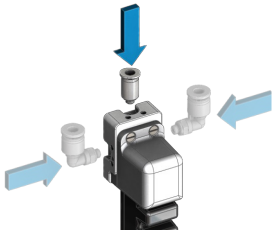
Fixation



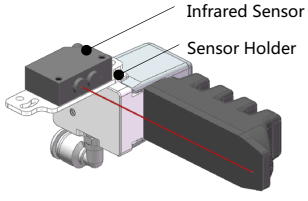





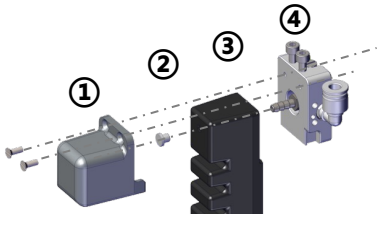
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

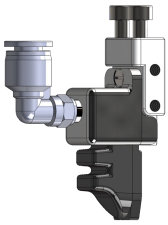
Finger Module

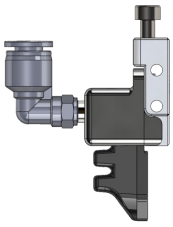
FM -C3V3 / LS1

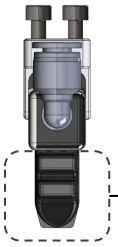
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

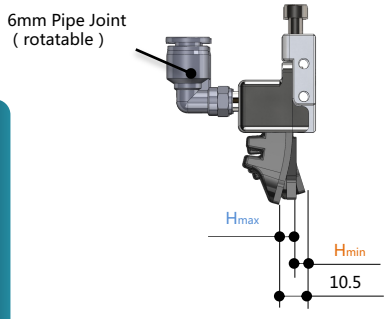


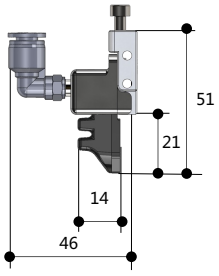
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V3/LS1[P]	FM-C3V3/LS1[PAS]	FM-C3V3/LS1[H]	FM-C3V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠ 120	98	24	5.5	1	⚠ 220	77	24

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



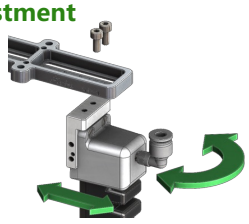




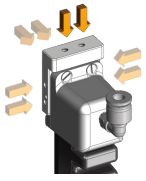
The measuring unit: [mm]

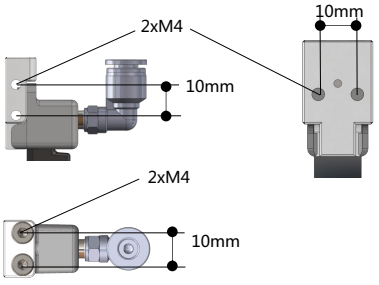
FM

Pose Adjustment



Fixation

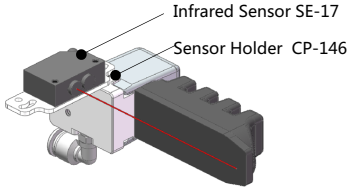




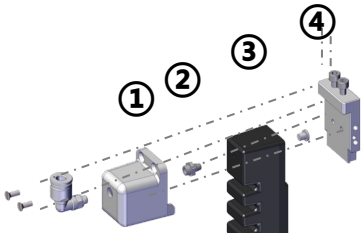
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

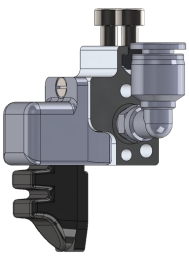
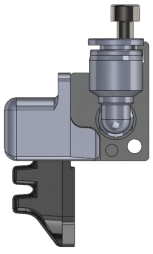
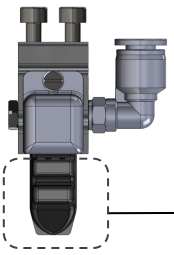
Finger Module

FM -C3V4 / LS1

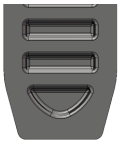
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

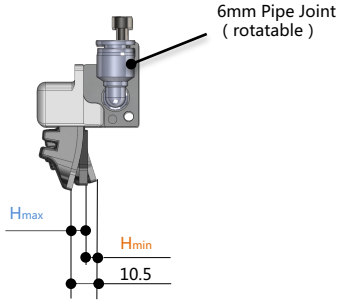


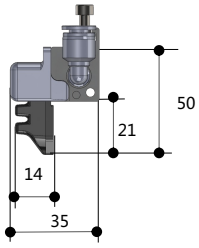

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V4/LS1[P]	FM-C3V4/LS1[PAS]	FM-C3V4/LS1[H]	FM-C3V4/LS1[HAS]

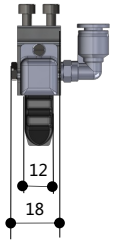
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠ 120	98	35	5.5	1	⚠ 220	77	35

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



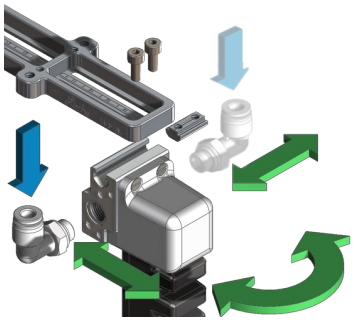




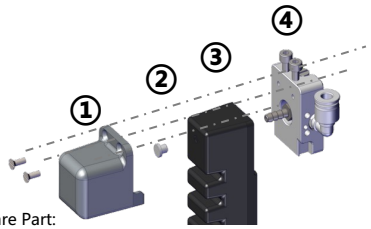
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



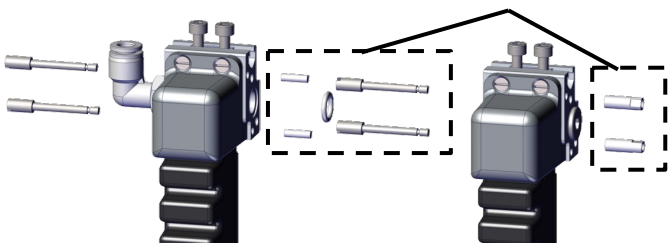
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





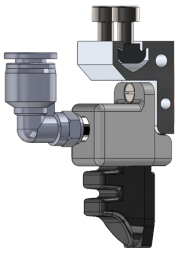
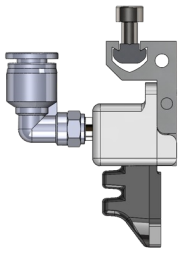
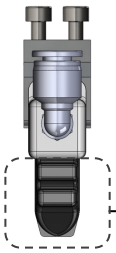
Finger Module

FM -C3V5 / LS1

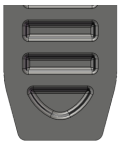
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

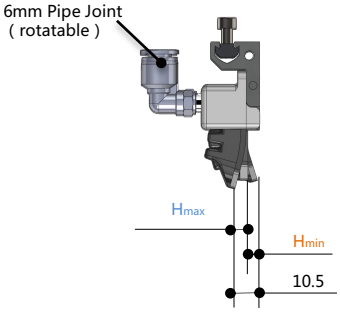


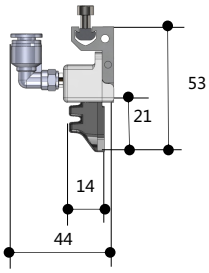

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V5/LS1[P]	FM-C3V5/LS1[PAS]	FM-C3V5/LS1[H]	FM-C3V5/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠ 120	98	28	5.5	1	⚠ 220	77	28

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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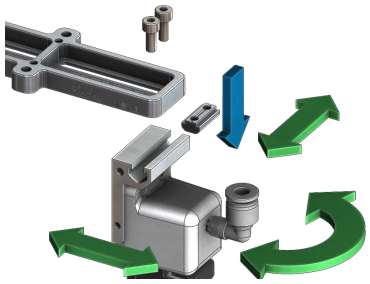




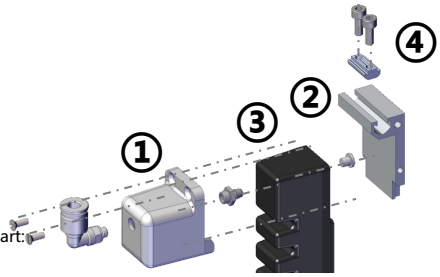
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



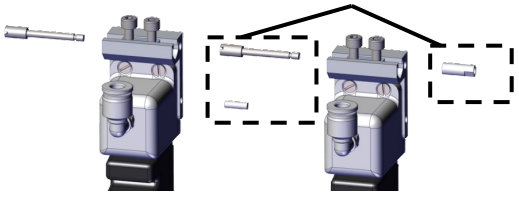
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

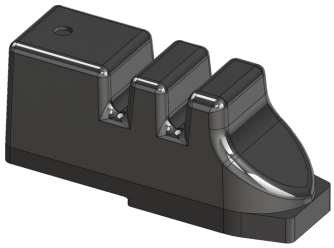
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

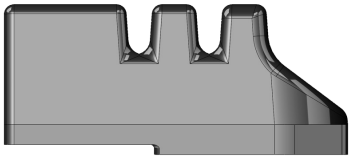
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C3T/LS1[P]	F-C3T/LS1[PAS]	F-C3T/LS1[H]	F-C3T/LS1[HAS]

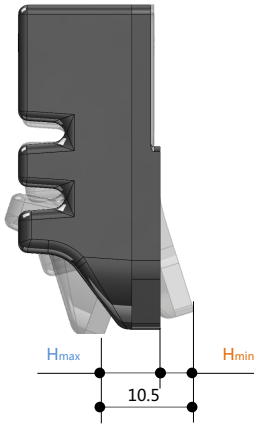
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠ 120	98	4	5.5	1	⚠ 220	77	4

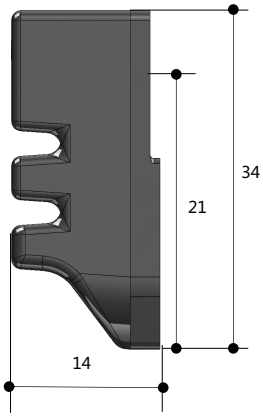
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







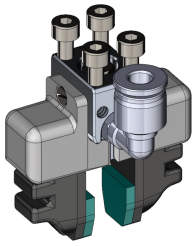
Finger Module

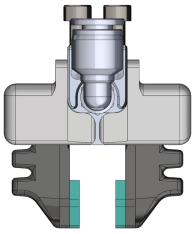
FM -C3V1 / NS

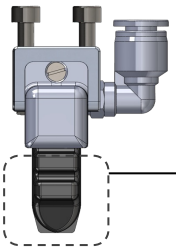
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

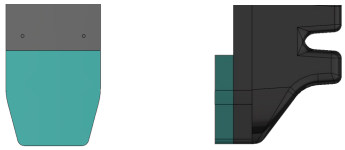
Scan to watch videos







Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.



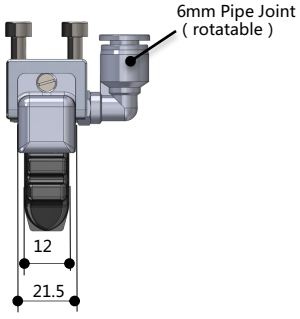
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V1/NS[P]	FM-C3V1/NS[PAS]	FM-C3V1/NS[H]	FM-C3V1/NS[HAS]

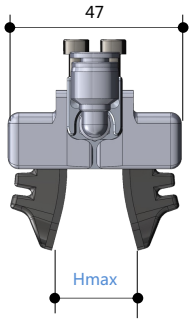
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
4	25	⚠ 120	196	42	4	17	⚠ 220	154	42

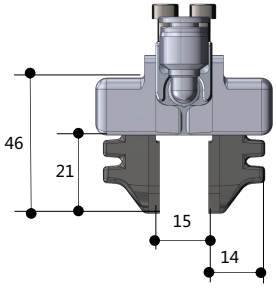
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

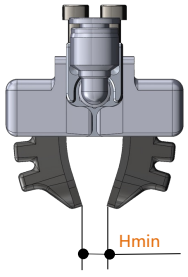
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FM



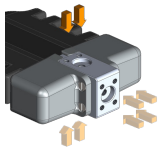


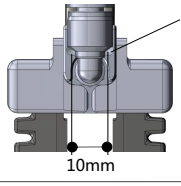


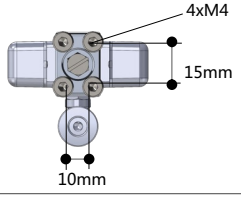


The measuring unit: [mm]

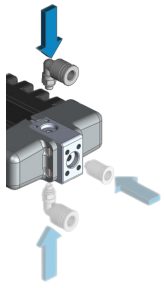
Fixation



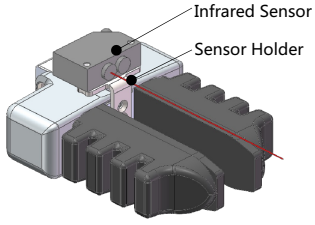




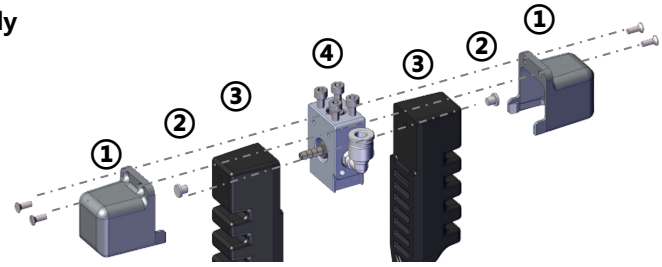
Air Intake



Sensor Installation

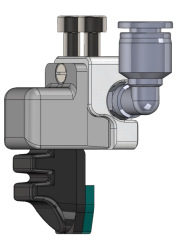


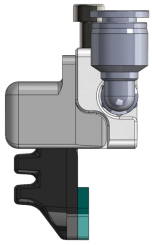
Assembly

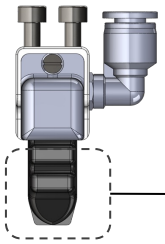


Spare Part:

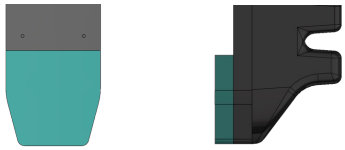
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

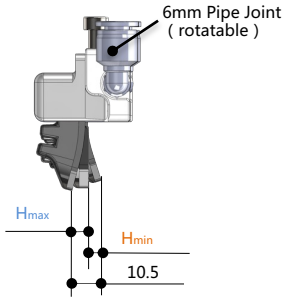


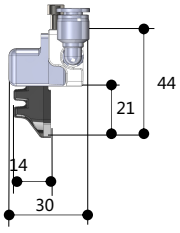
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V2/NS[P]	FM-C3V2/NS[PAS]	FM-C3V2/NS[H]	FM-C3V2/NS[HAS]

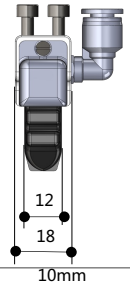
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠120	g 98	27	5.5	1	⚠ 220	g 77	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



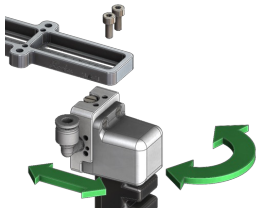




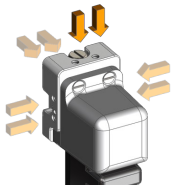
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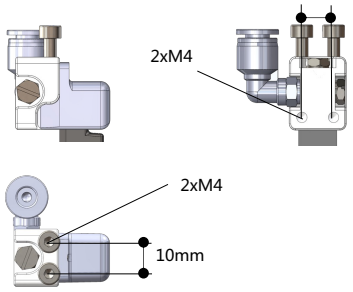
FM

Pose Adjustment

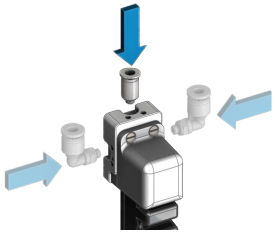


Fixation

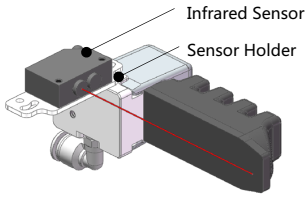




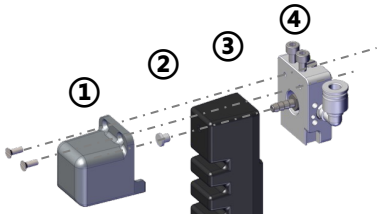
Air Intake



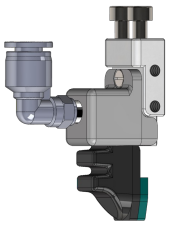
Sensor Installation

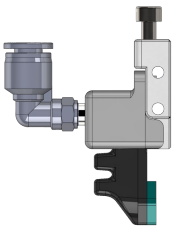


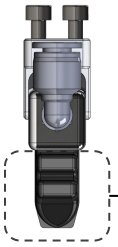
Assembly



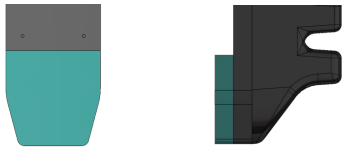
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

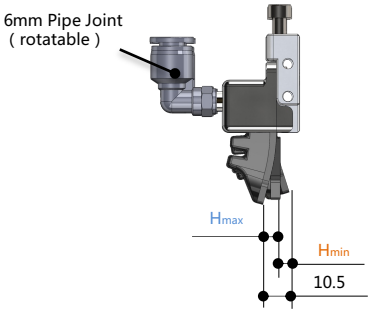


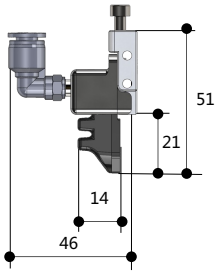
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V3/NS[P]	FM-C3V3/NS[PAS]	FM-C3V3/NS[H]	FM-C3V3/NS[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠120	98	24	5.5	1	⚠220	77	24

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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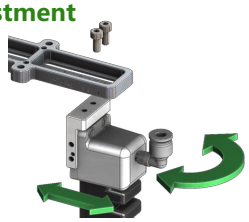




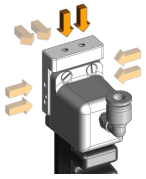
The measuring unit: [mm]

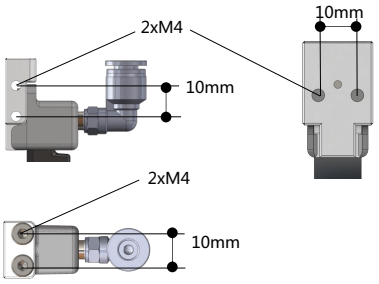
FM

Pose Adjustment



Fixation

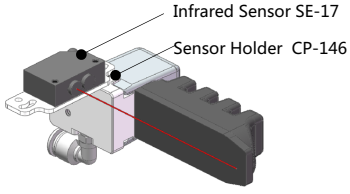




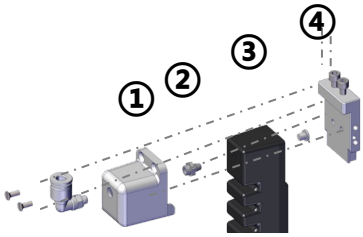
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

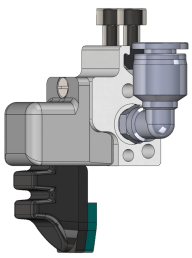
Finger Module

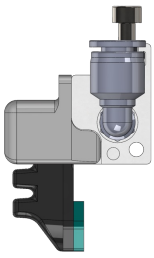
FM -C3V4 / NS

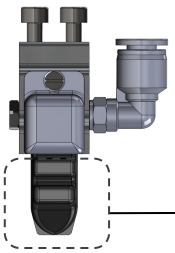
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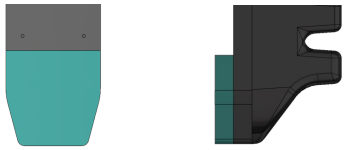
Scan to watch videos







Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

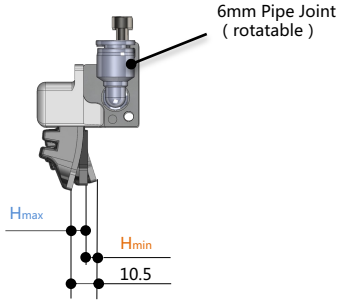


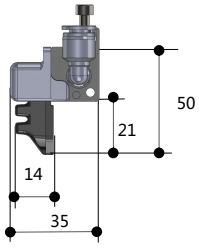
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V4/NS[P]	FM-C3V4/NS[PAS]	FM-C3V4/NS[H]	FM-C3V4/NS[HAS]

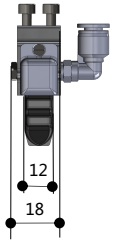
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠120	98	35	5.5	1	⚠220	77	35

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



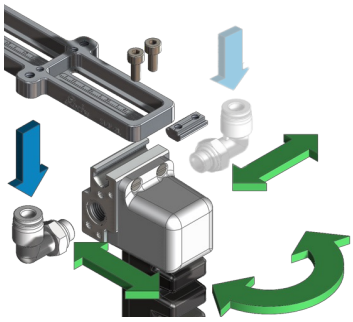




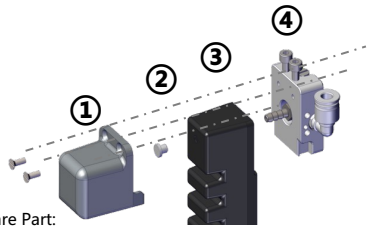
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



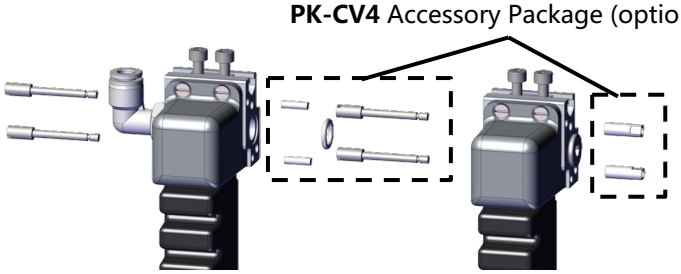
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

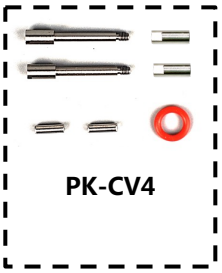
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





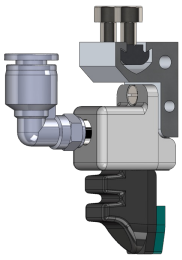
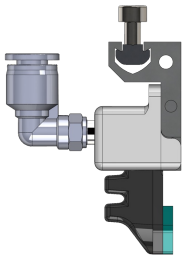
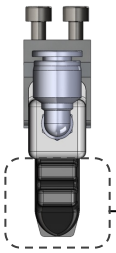
Finger Module

FM -C3V5 / NS

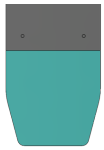
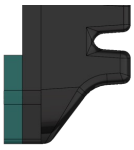
https://rochu.partcommunity.com/3d-cad-models/

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Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

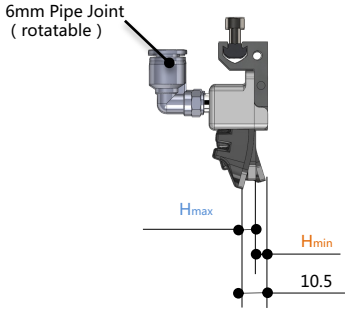



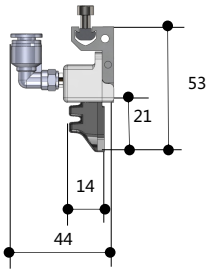
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C3V5/NS[P]	FM-C3V5/NS[PAS]	FM-C3V5/NS[H]	FM-C3V5/NS[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠120	98	28	5.5	1	⚠220	77	28

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



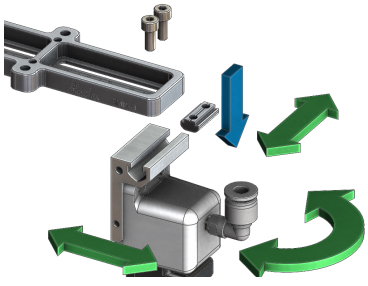




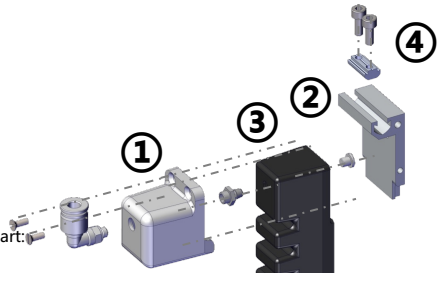
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



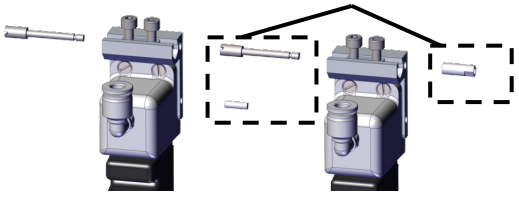
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

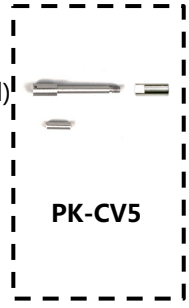
Series combination:

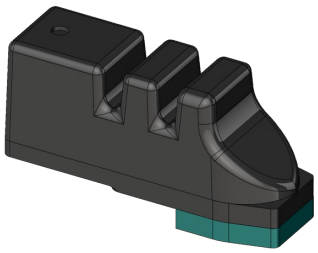
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

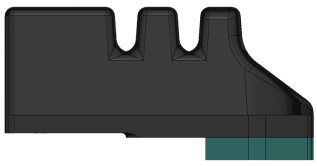
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)











Finger Pattern		Features
NS	Special Form	Suitable for oily, watery, and other slippery workpiece surfaces.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C3T/NS[P]	F-C3T/NS[PAS]	F-C3T/NS[H]	F-C3T/NS[HAS]

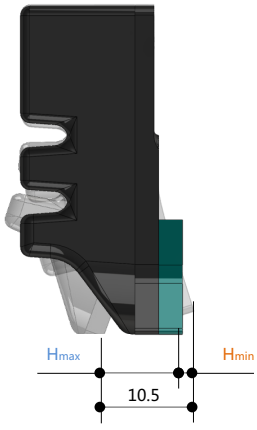
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
5.5	5	⚠120	g 98	4	5.5	1	⚠220	g 77	4

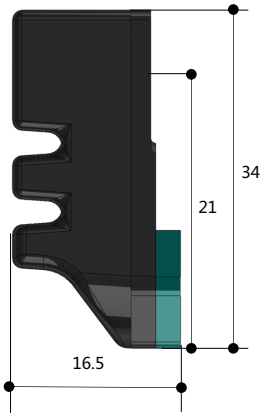
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

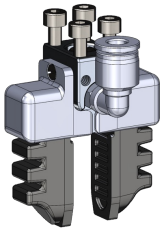
FM

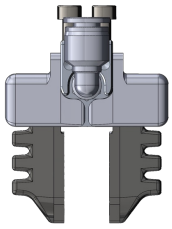
Dimension Parameters

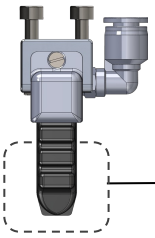












Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

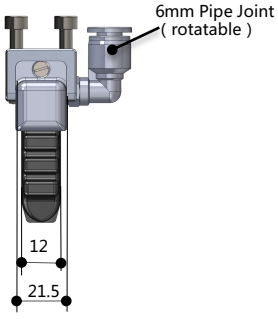


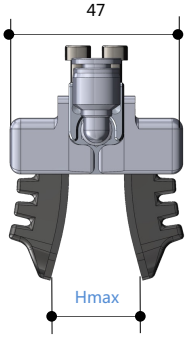
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V1/LS1[P]	FM-C4V1/LS1[PAS]	FM-C4V1/LS1[H]	FM-C4V1/LS1[HAS]

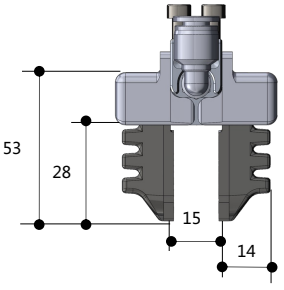
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	33	⚠ 120	208	44	0	21	⚠ 220	182	44

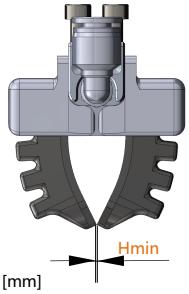
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



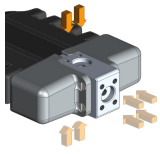


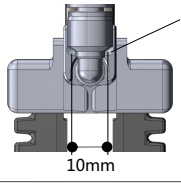


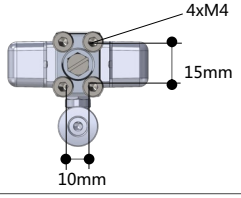


The measuring unit: [mm]

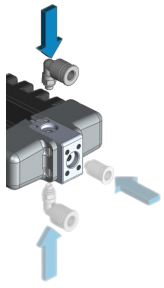
Fixation



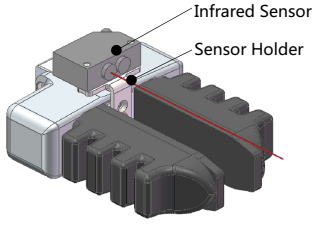




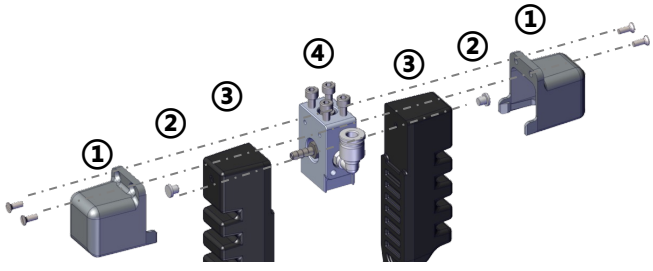
Air Intake



Sensor Installation

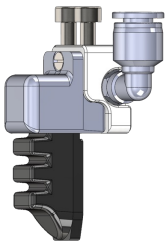


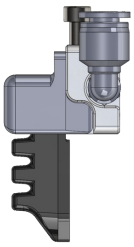
Assembly

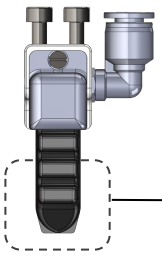


Spare Part:

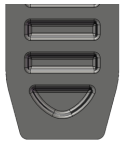
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



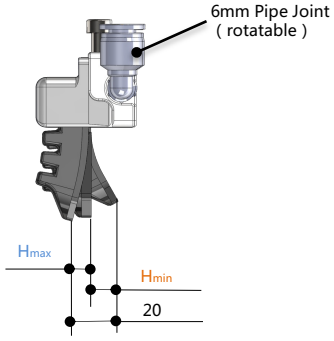


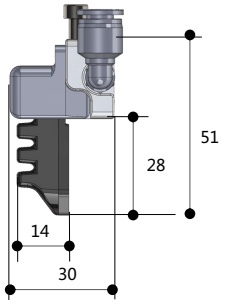
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V2/LS1[P]	FM-C4V2/LS1[PAS]	FM-C4V2/LS1[H]	FM-C4V2/LS1[HAS]

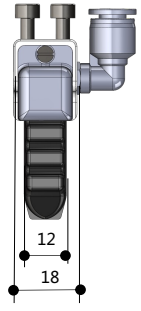
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	g 104	27	11	3	⚠ 220	g 91	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

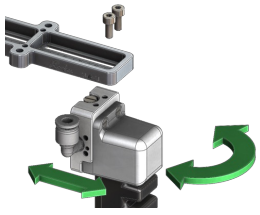




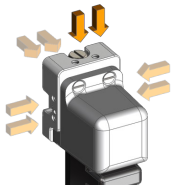


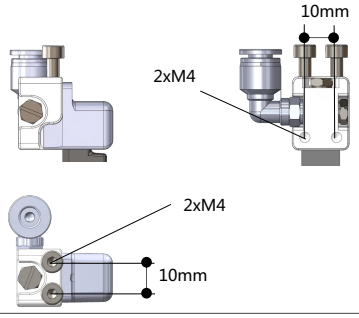
The measuring unit: [mm]

Pose Adjustment

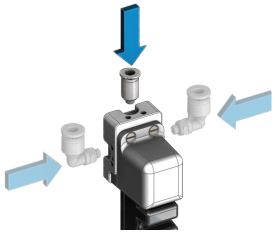


Fixation

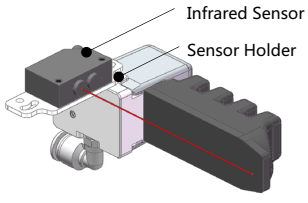




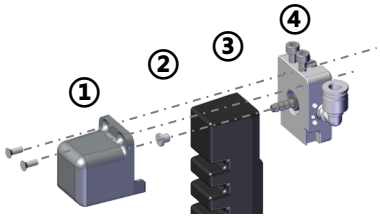
Air Intake



Sensor Installation



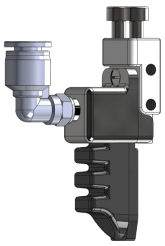
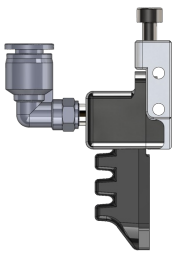
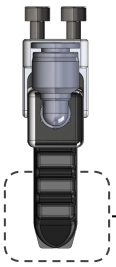
Assembly



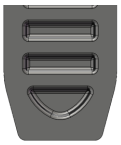
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

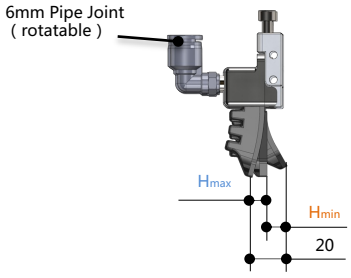


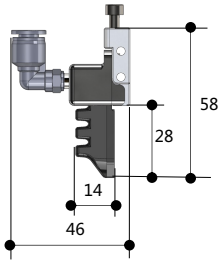

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V3/LS1[P]	FM-C4V3/LS1[PAS]	FM-C4V3/LS1[H]	FM-C4V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	g 104	25	11	3	⚠ 220	g 91	25

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

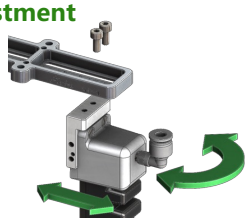




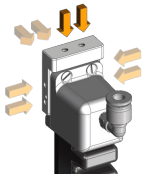


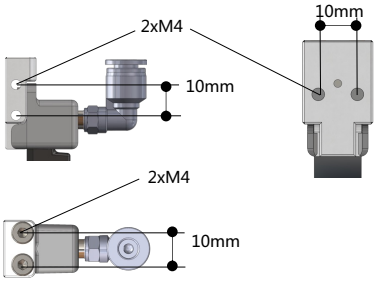
The measuring unit: [mm]

Pose Adjustment



Fixation

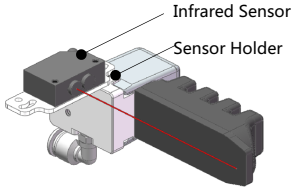




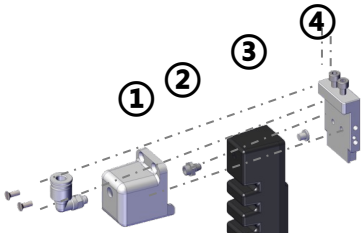
Air Intake



Sensor Installation

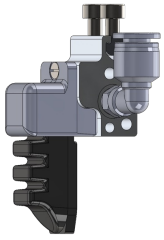


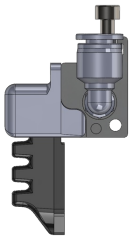
Assembly

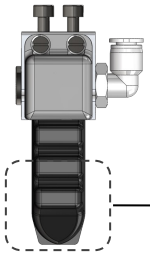


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

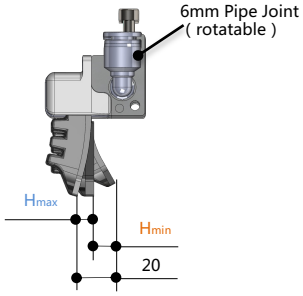


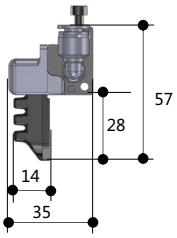
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V4/LS1[P]	FM-C4V4/LS1[PAS]	FM-C4V4/LS1[H]	FM-C4V4/LS1[HAS]

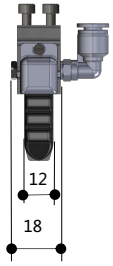
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	36	11	3	⚠ 220	91	36

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



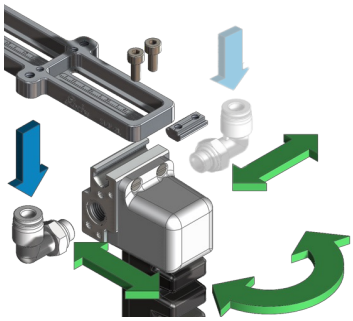




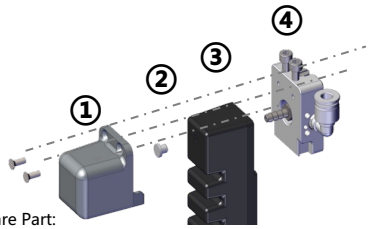
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



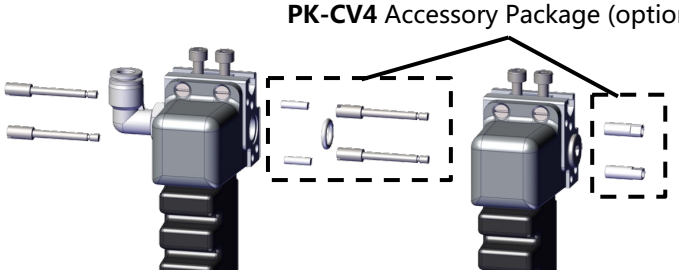
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





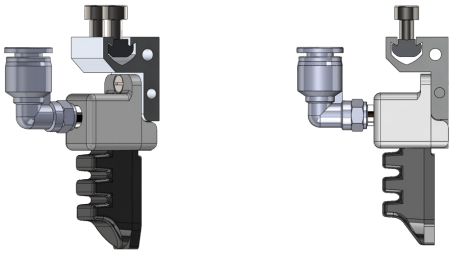
Finger Module

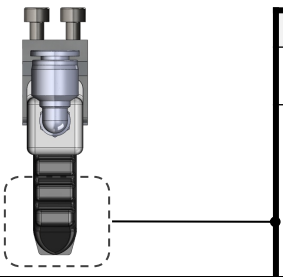
FM -C4V5 / LS1

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos





Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

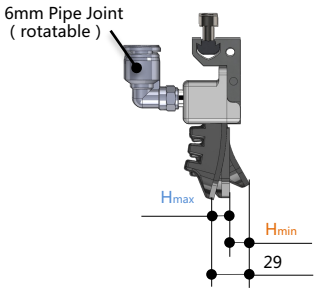


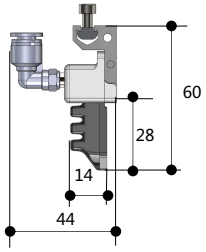
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V5/LS1[P]	FM-C4V5/LS1[PAS]	FM-C4V5/LS1[H]	FM-C4V5/LS1[HAS]

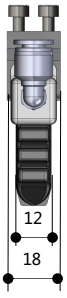
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	28	11	3	⚠220	91	28

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



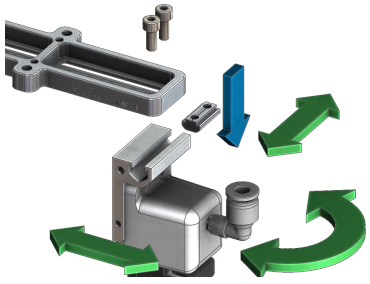




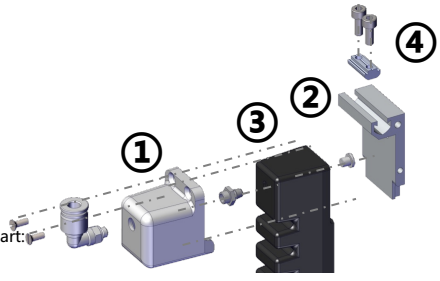
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



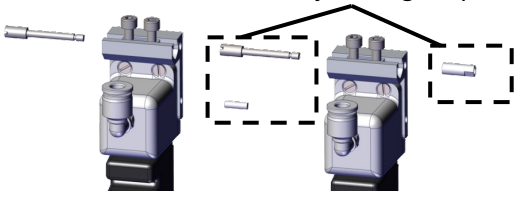
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

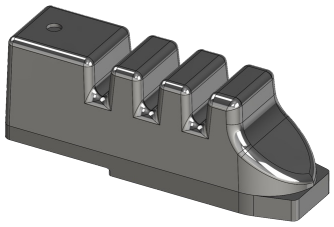
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

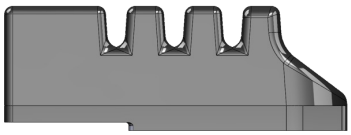
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C4T/LS1**[P]**	F-C4T/LS1**[PAS]**	F-C4T/LS1**[H]**	F-C4T/LS1**[HAS]**

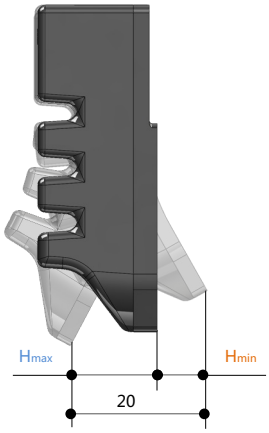
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	5	11	3	⚠220	91	5

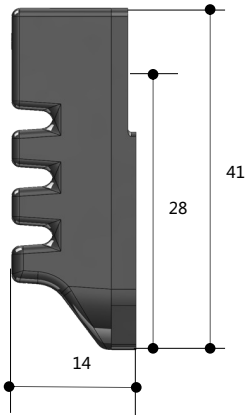
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

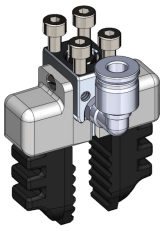
FM

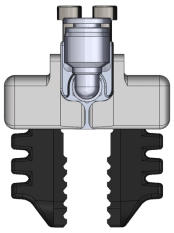
Dimension Parameters

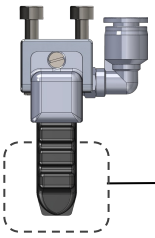




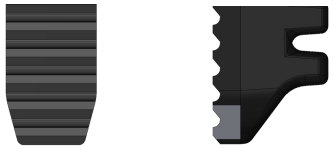








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.



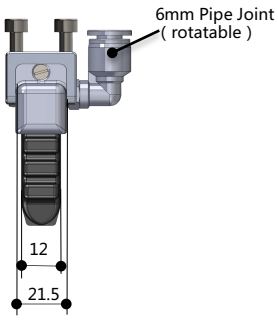
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V1/LS8[P]	FM-C4V1/LS8[PAS]	FM-C4V1/LS8[H]	FM-C4V1/LS8[HAS]

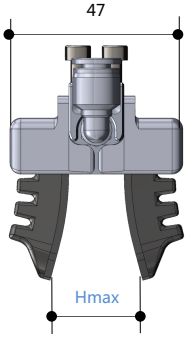
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	33	⚠ 120	g 208	44	0	21	⚠ 220	g 182	44

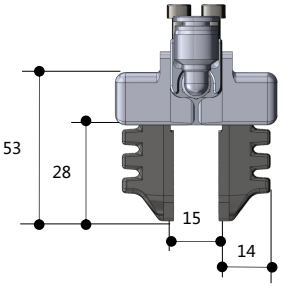
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

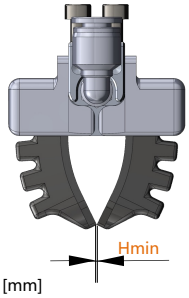
g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



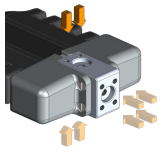


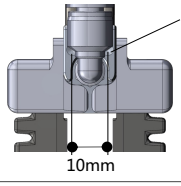


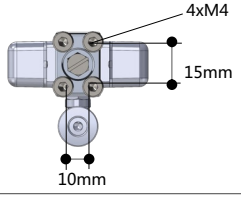


The measuring unit: [mm]

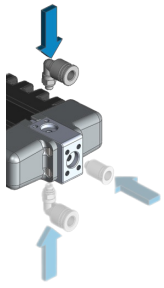
Fixation



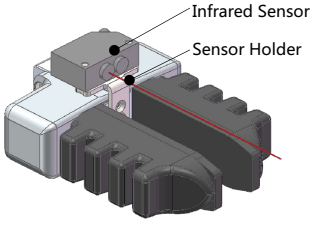




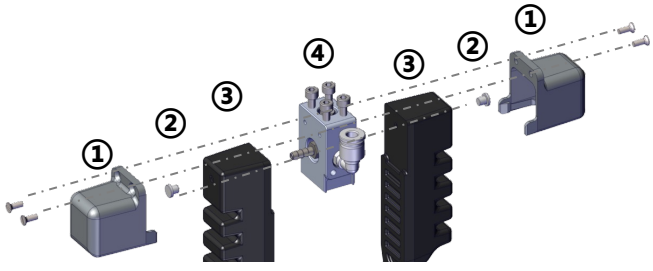
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

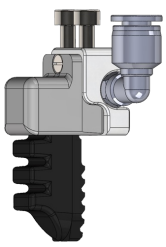
Finger Module

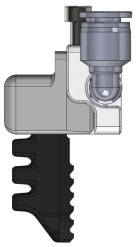
FM -C4V2 / LS8

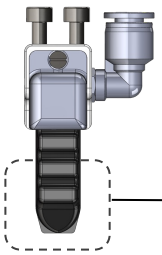
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

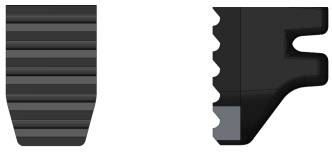
Scan to watch videos







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

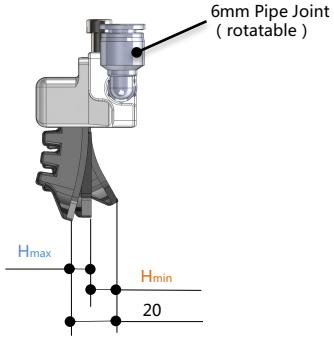


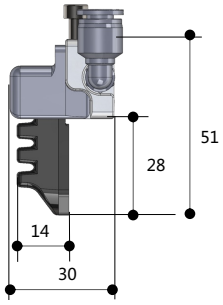
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V2/LS8[P]	FM-C4V2/LS8[PAS]	FM-C4V2/LS8[H]	FM-C4V2/LS8[HAS]

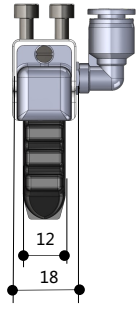
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	g 104	27	11	3	⚠ 220	g 91	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



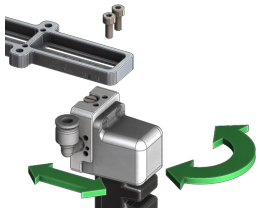




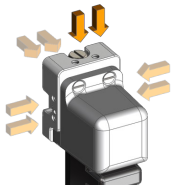
The measuring unit: [mm]

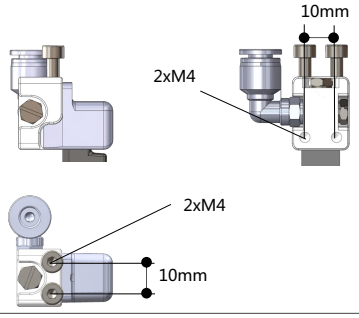
FM

Pose Adjustment

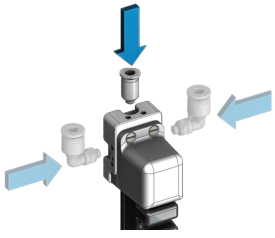


Fixation

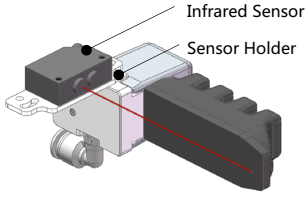




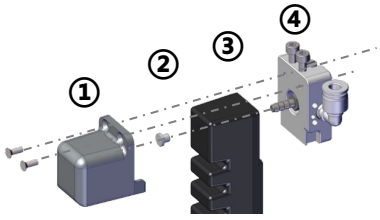
Air Intake



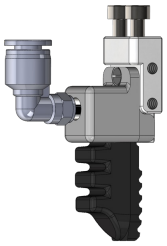
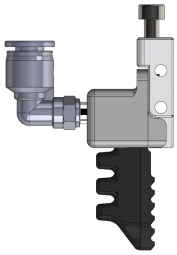
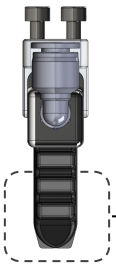
Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

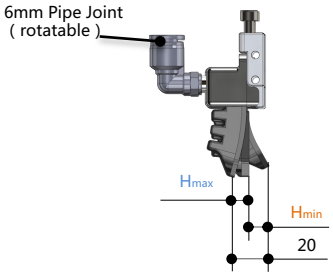


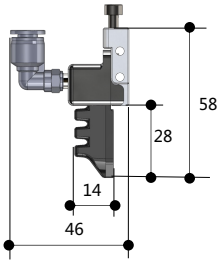

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V3/LS8[P]	FM-C4V3/LS8[PAS]	FM-C4V3/LS8[H]	FM-C4V3/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	g 104	25	11	3	⚠ 220	g 91	25

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



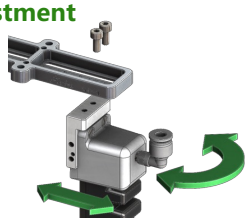




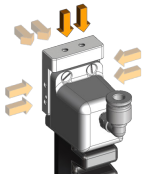
The measuring unit: [mm]

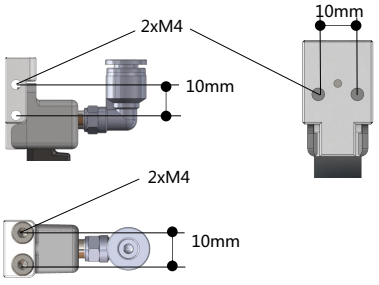
FM

Pose Adjustment



Fixation

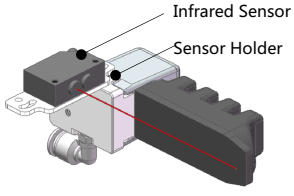




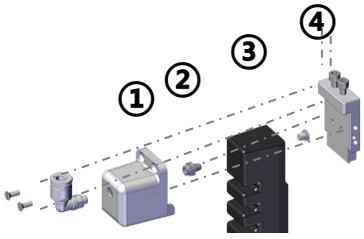
Air Intake



Sensor Installation

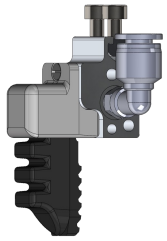


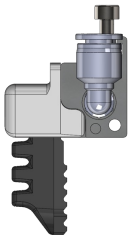
Assembly

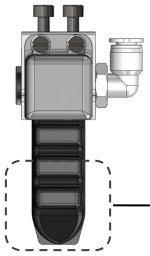


Spare Part:

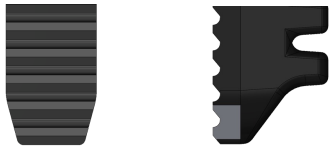
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

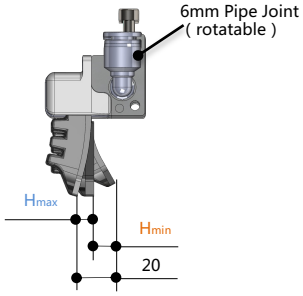


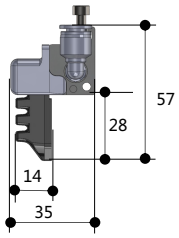
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V4/LS8[P]	FM-C4V4/LS8[PAS]	FM-C4V4/LS8[H]	FM-C4V4/LS8[HAS]

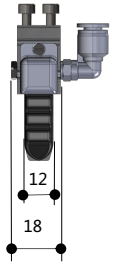
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	36	11	3	⚠220	91	36

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



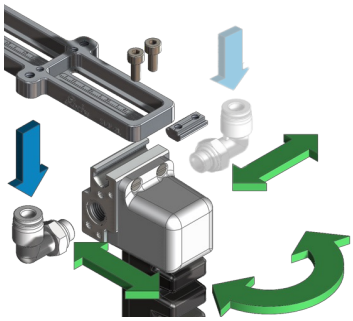




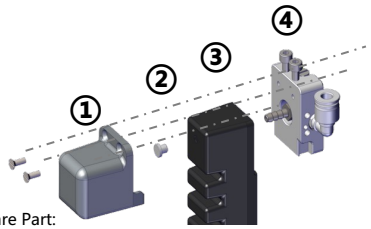
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



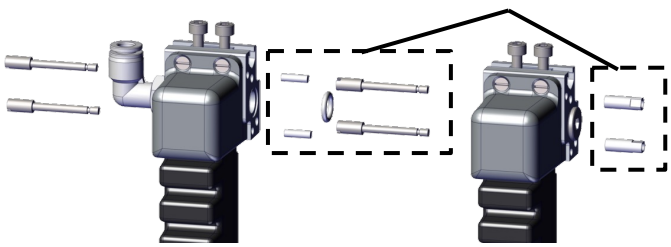
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





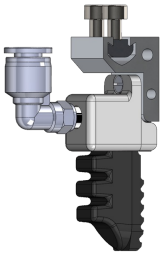
Finger Module

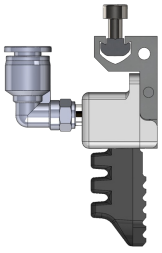
FM -C4V5 / LS8

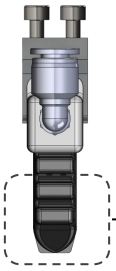
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

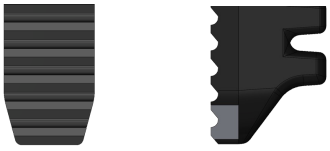
Scan to watch videos







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.



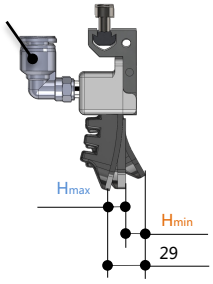
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V5/LS8[P]	FM-C4V5/LS8[PAS]	FM-C4V5/LS8[H]	FM-C4V5/LS8[HAS]

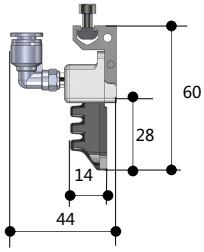
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	28	11	3	⚠220	91	28

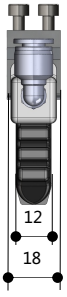
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)

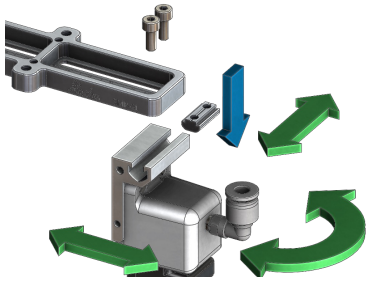




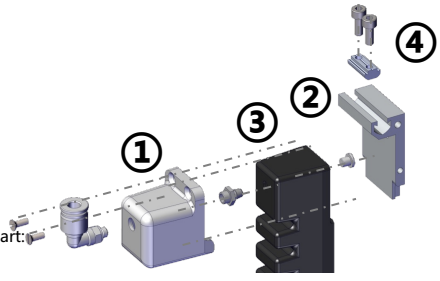


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



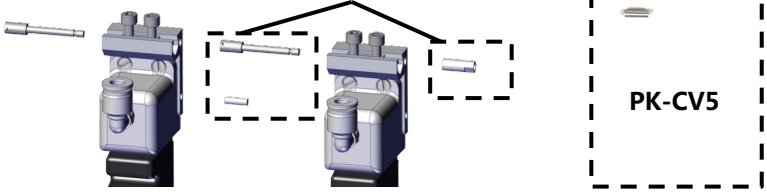
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

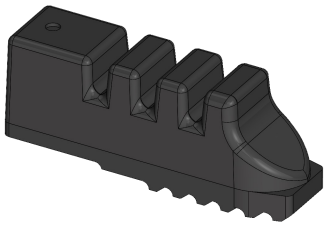
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)









Finger Pattern		Features
LS8	Standard form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C4T/LS8[P]	F-C4T/LS8[PAS]	F-C4T/LS8[H]	F-C4T/LS8[HAS]

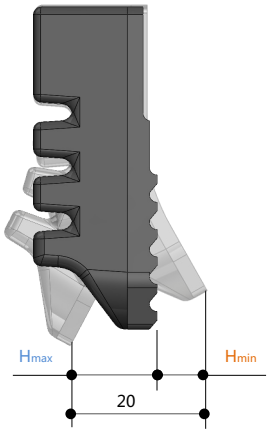
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	5	11	3	⚠220	91	5

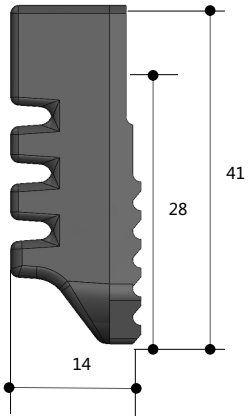
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

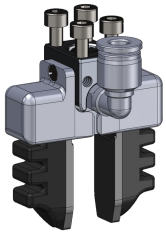
FM

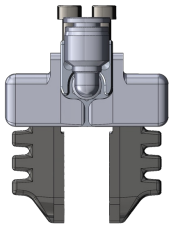
Dimension Parameters

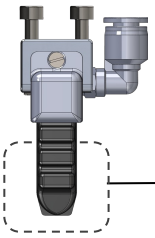












Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

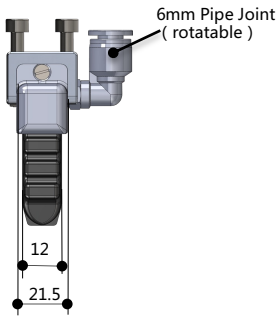


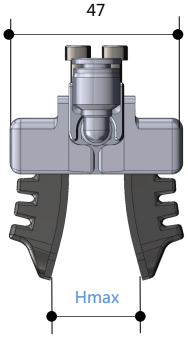
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V1/LF1[P]	FM-C4V1/LF1[PAS]	FM-C4V1/LF1[H]	FM-C4V1/LF1[HAS]

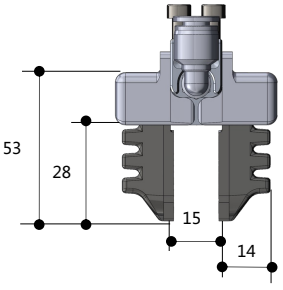
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	33	⚠120	208	44	0	21	⚠220	182	44

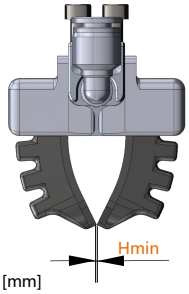
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



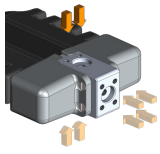


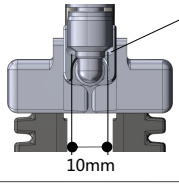


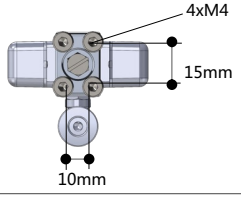


The measuring unit: [mm]

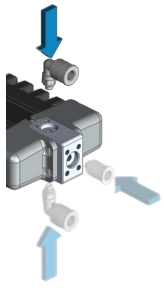
Fixation



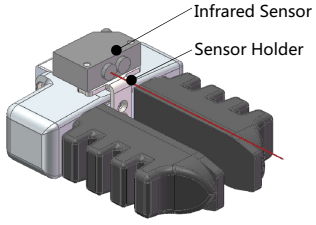




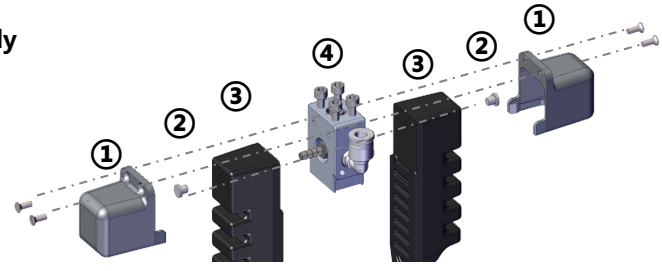
Air Intake



Sensor Installation

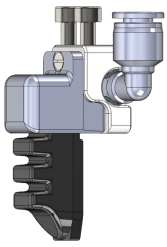


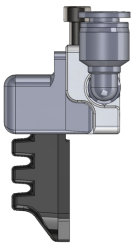
Assembly

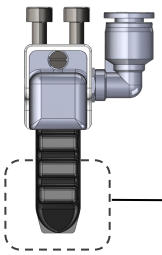


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

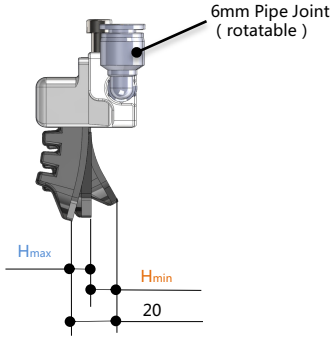


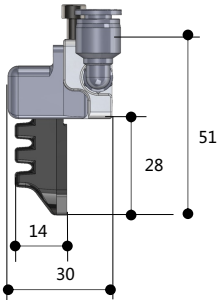
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V2/LF1[P]	FM-C4V2/LF1[PAS]	FM-C4V2/LF1[H]	FM-C4V2/LF1[HAS]

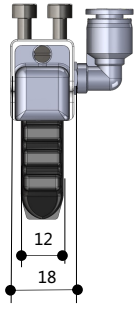
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	27	11	3	⚠220	91	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



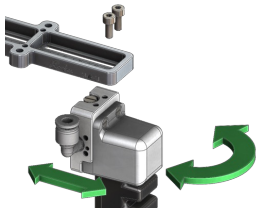




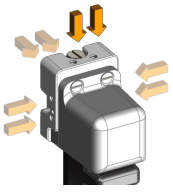
The measuring unit: [mm]

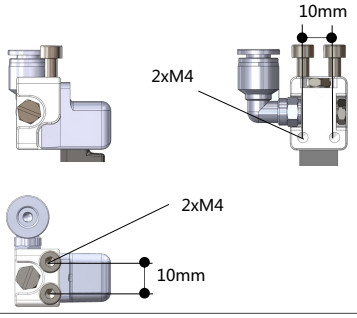
FM

Pose Adjustment

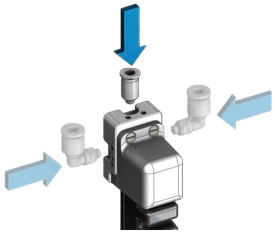


Fixation

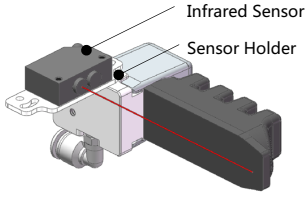




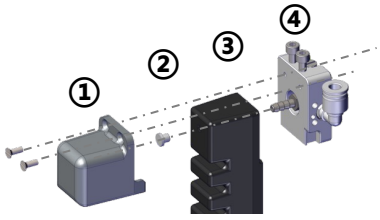
Air Intake



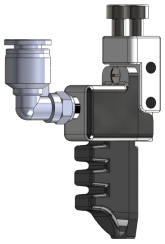
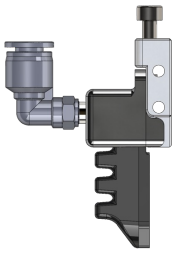
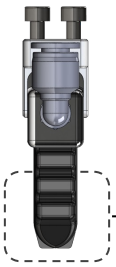
Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

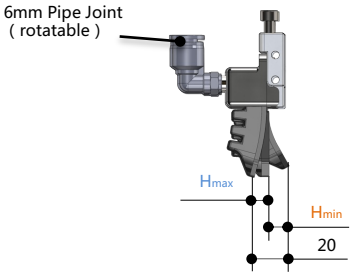


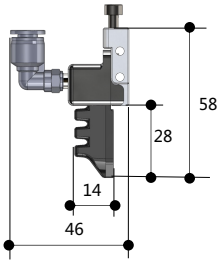
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V3/LF1[P]	FM-C4V3/LF1[PAS]	FM-C4V3/LF1[H]	FM-C4V3/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	25	11	3	⚠220	91	25

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

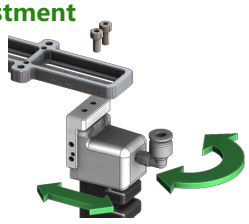




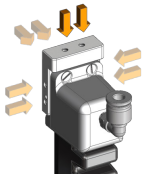


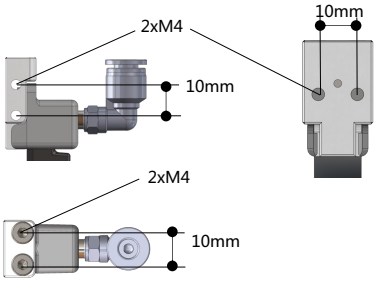
The measuring unit: [mm]

Pose Adjustment



Fixation

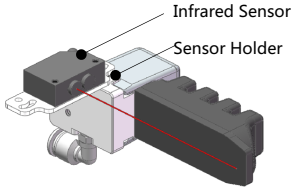




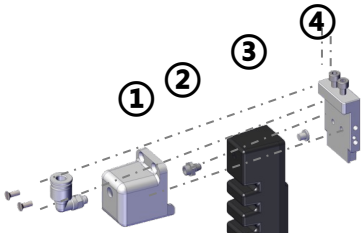
Air Intake



Sensor Installation

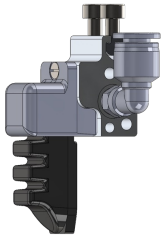


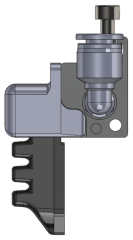
Assembly

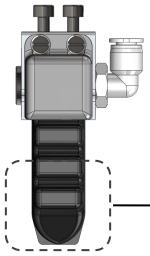


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

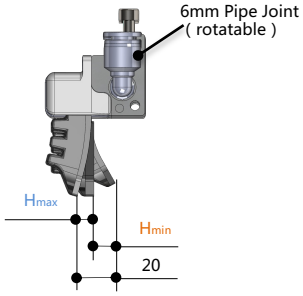


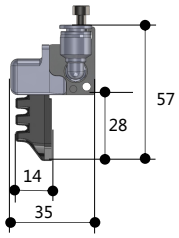
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V4/LF1[P]	FM-C4V4/LF1[PAS]	FM-C4V4/LF1[H]	FM-C4V4/LF1[HAS]

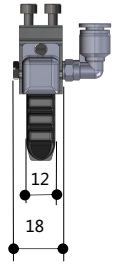
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	36	11	3	⚠ 220	91	36

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



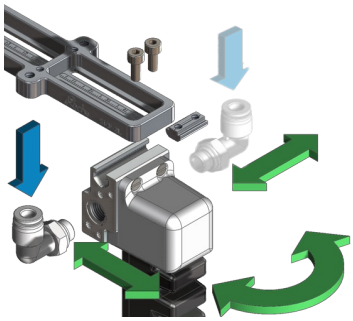




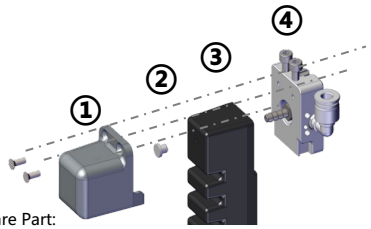
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



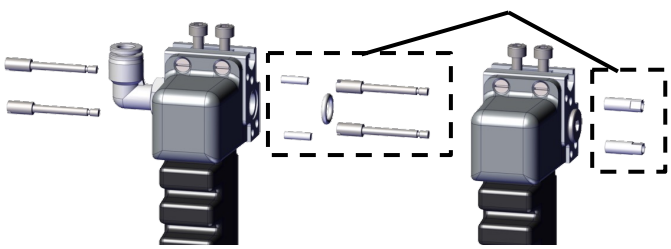
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





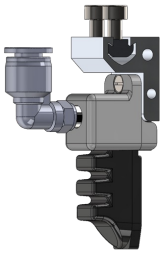
Finger Module

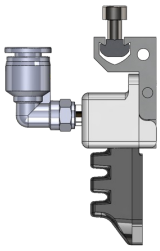
FM -C4V5 / LF1

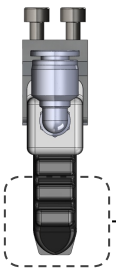
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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.



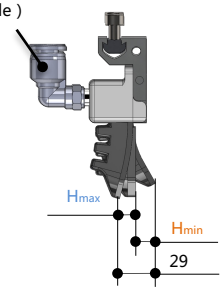
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V5/LF1[P]	FM-C4V5/LF1[PAS]	FM-C4V5/LF1[H]	FM-C4V5/LF1[HAS]

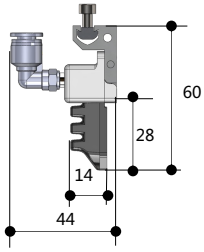
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	28	11	3	⚠220	91	28

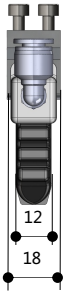
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)

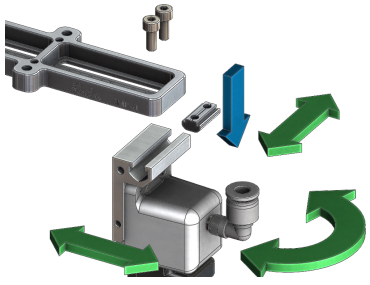




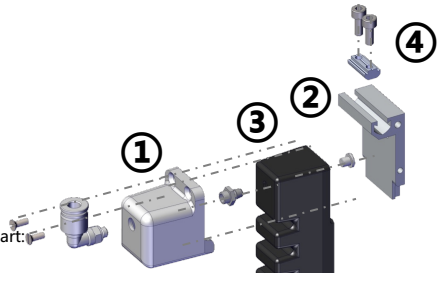


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



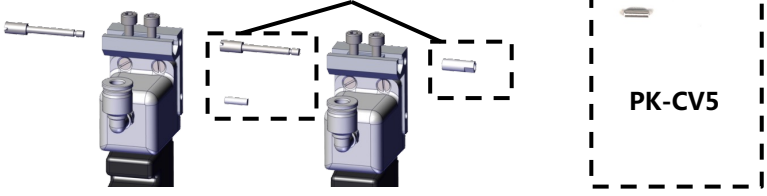
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

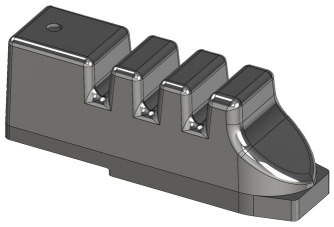
Series combination:

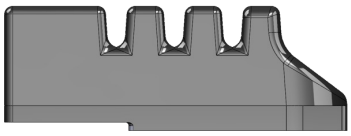
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)









Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C4T/LF1[P]	F-C4T/LF1[PAS]	F-C4T/LF1[H]	F-C4T/LF1[HAS]

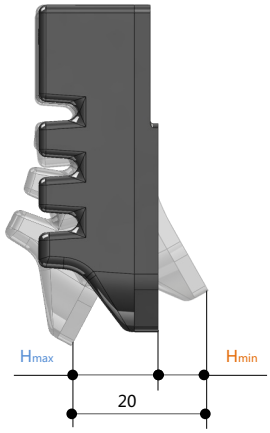
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	5	11	3	⚠220	91	5

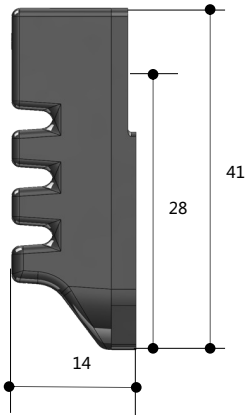
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







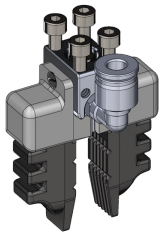
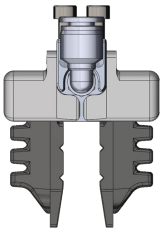
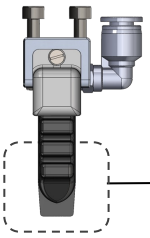
Finger Module

FM -C4V1 / V15

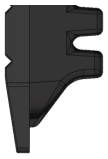
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Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

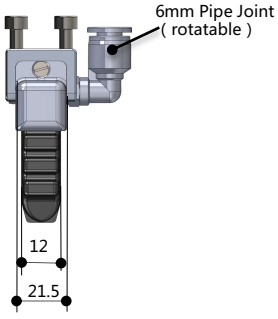
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V1/V15[P]	FM-C4V1/V15[PAS]	FM-C4V1/V15[H]	FM-C4V1/V15[HAS]

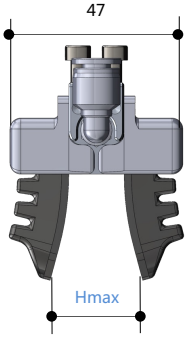
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	33	⚠120	208	44	0	21	⚠220	182	44

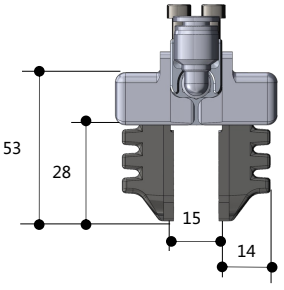
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

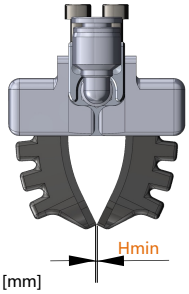
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



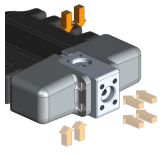


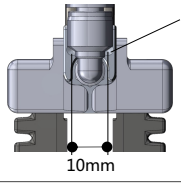


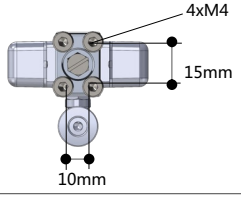


The measuring unit: [mm]

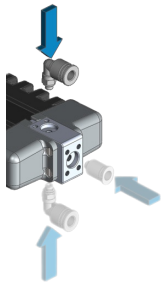
Fixation



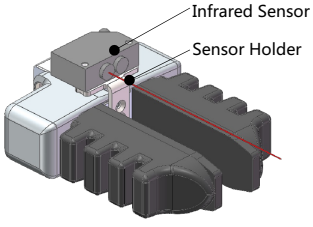




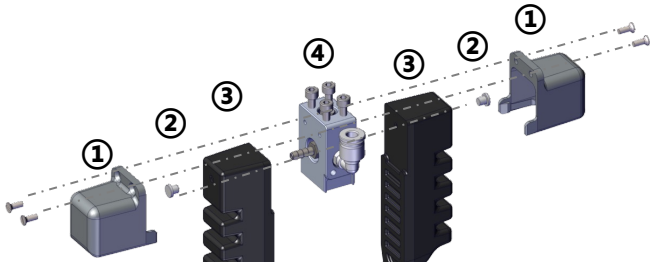
Air Intake



Sensor Installation

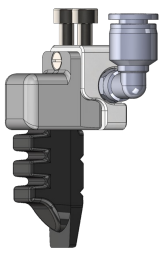


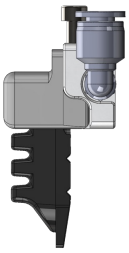
Assembly

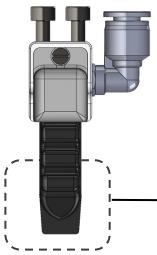


Spare Part:

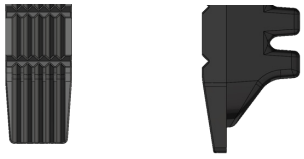
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

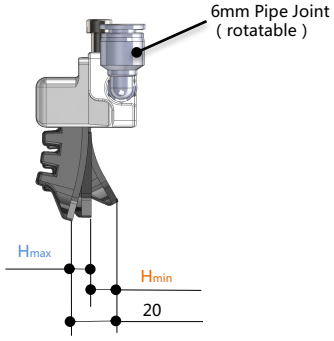


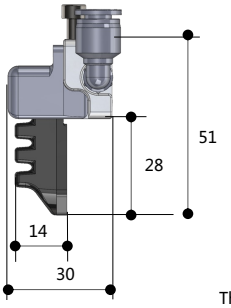
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V2/V15[P]	FM-C4V2/V15[PAS]	FM-C4V2/V15[H]	FM-C4V2/V15[HAS]

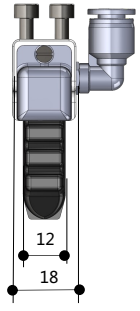
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	27	11	3	⚠220	91	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



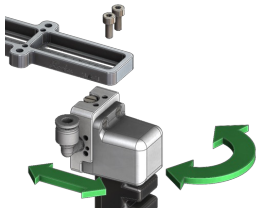




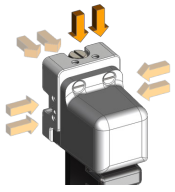
The measuring unit: [mm]

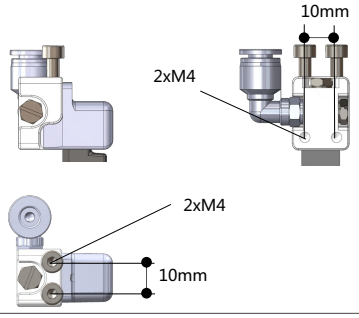
FM

Pose Adjustment

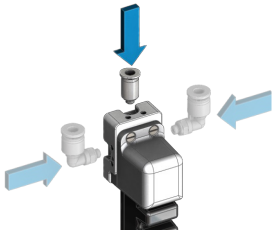


Fixation

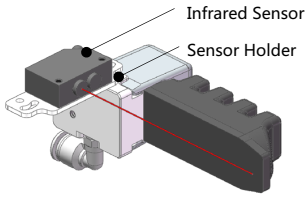




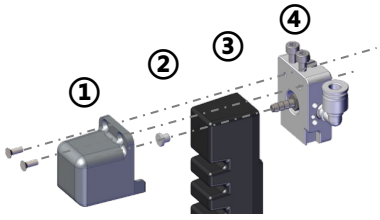
Air Intake



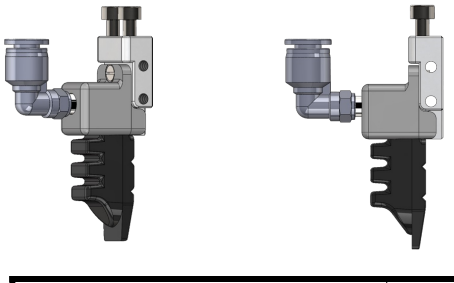
Sensor Installation

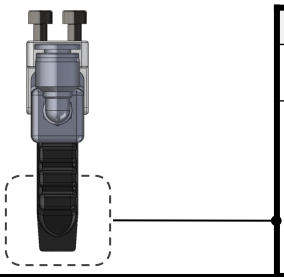


Assembly

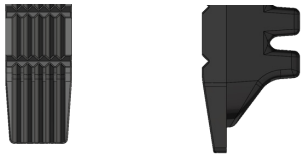


Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

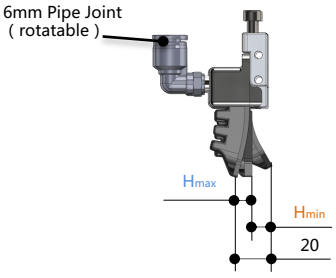


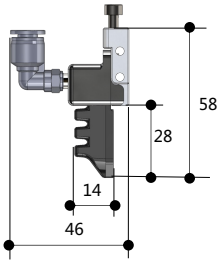
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V3/V15[P]	FM-C4V3/V15[PAS]	FM-C4V3/V15[H]	FM-C4V3/V15[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	g 104	25	11	3	⚠ 220	g 91	25

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



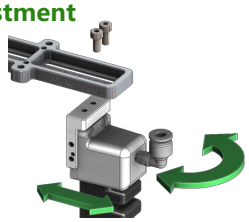




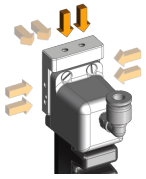
The measuring unit: [mm]

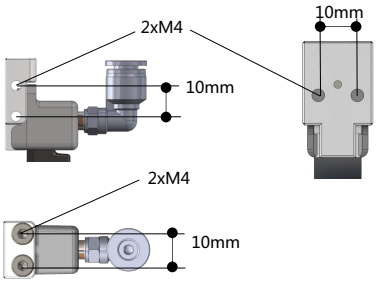
FM

Pose Adjustment



Fixation

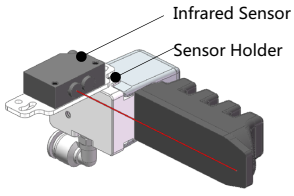




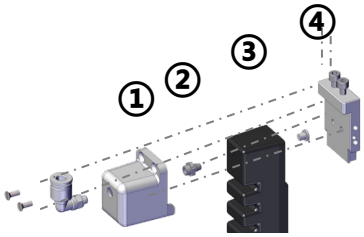
Air Intake



Sensor Installation

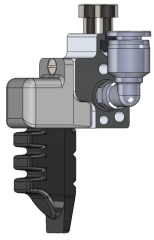


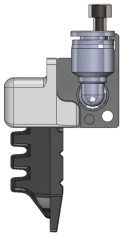
Assembly

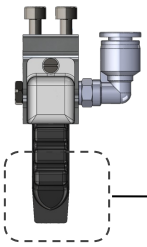


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

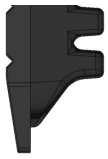






Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.



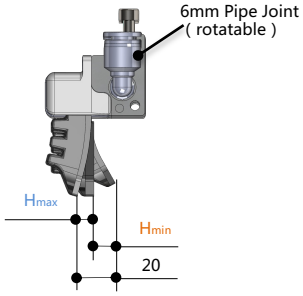


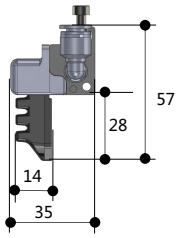
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V4/V15[P]	FM-C4V4/V15[PAS]	FM-C4V4/V15[H]	FM-C4V4/V15[HAS]

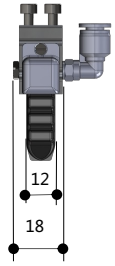
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	36	11	3	⚠ 220	91	36

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



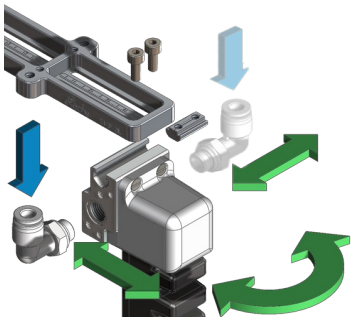




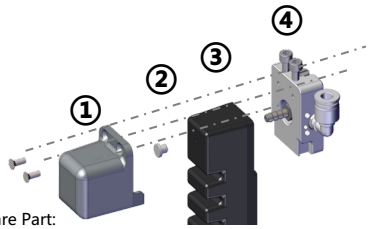
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



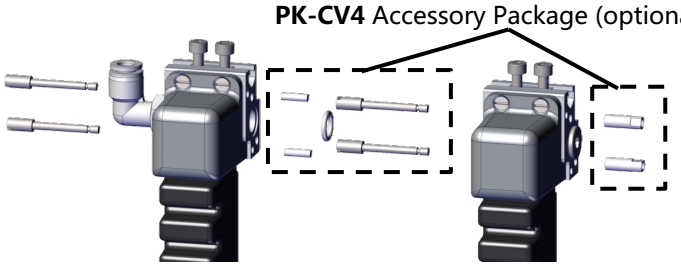
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Series combination:

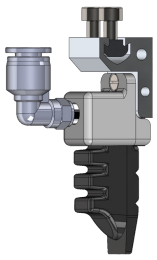
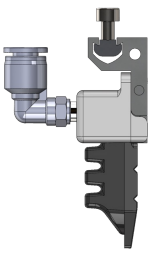
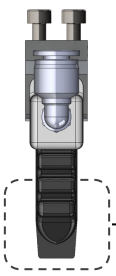
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

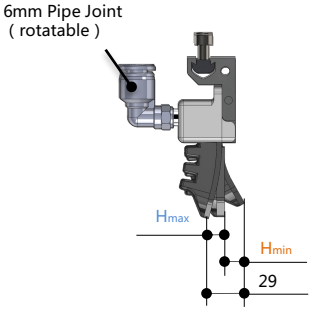


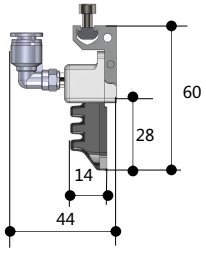

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C4V5/V15[P]	FM-C4V5/V15[PAS]	FM-C4V5/V15[H]	FM-C4V5/V15[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	28	11	3	⚠220	91	28

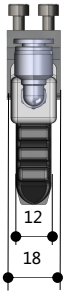
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

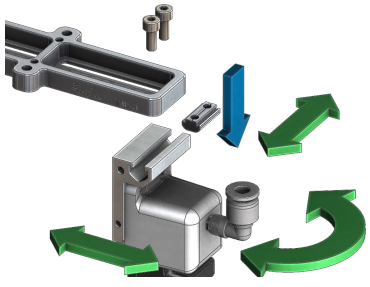




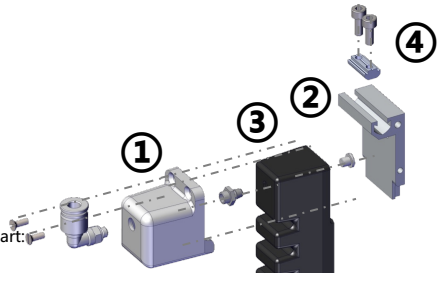
The measuring unit: [mm]



Air Intake & Pose Adjustment



Assembly



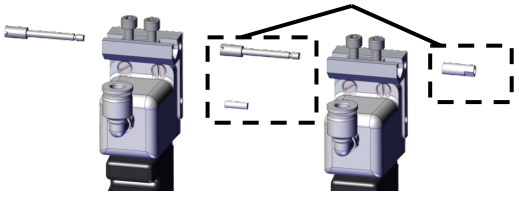
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

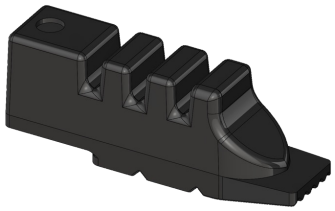
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

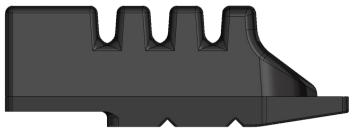
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)











Finger Pattern		Features
V15	Special Form	Suitable for grasping the side of a thin plate and is not easy to swing.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C4T/V15[P]	F-C4T/V15[PAS]	F-C4T/V15[H]	F-C4T/V15[HAS]

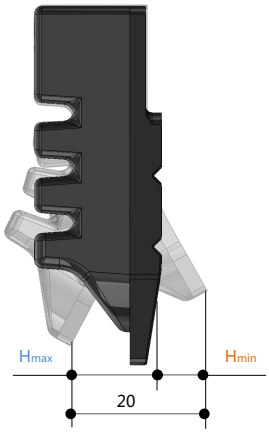
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
11	9	⚠120	104	5	11	3	⚠220	91	5

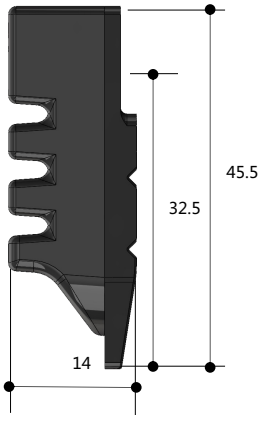
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

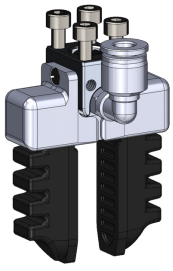
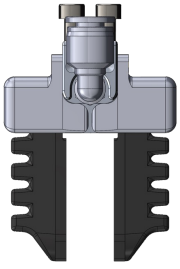
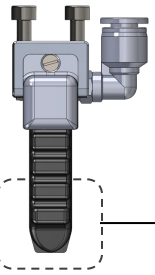
FM

Dimension Parameters

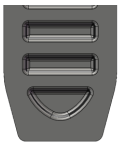






Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

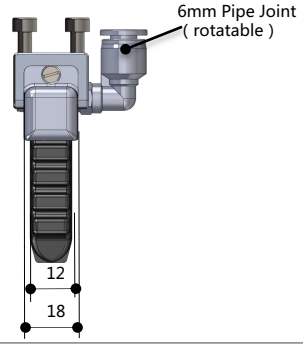


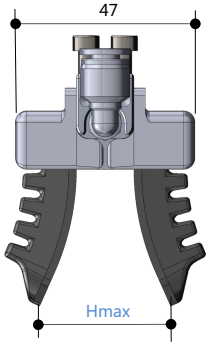

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V1/LS1[P]	FM-C5V1/LS1[PAS]	FM-C5V1/LS1[H]	FM-C5V1/LS1[HAS]

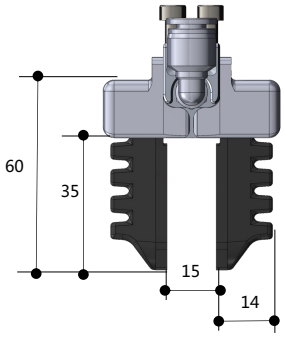
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	39	⚠120	186	45	0	31	⚠220	182	45

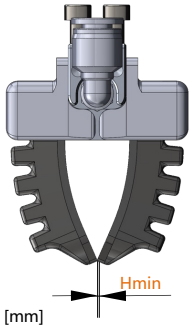
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



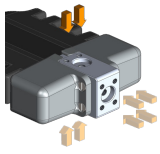


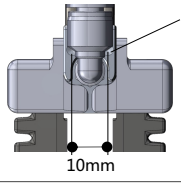


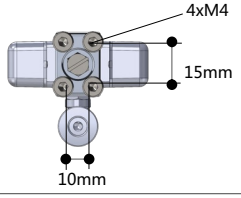


The measuring unit: [mm]

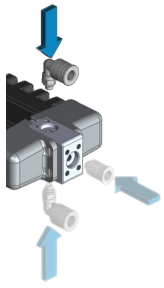
Fixation



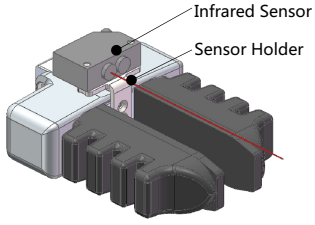




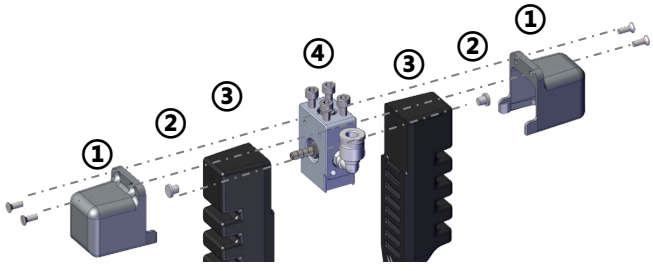
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

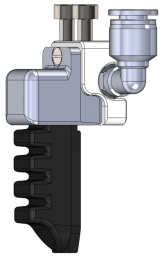
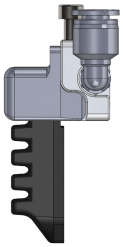
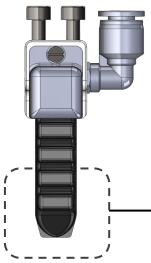
Finger Module

FM -C5V2 / LS1

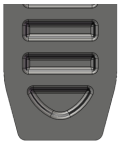
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

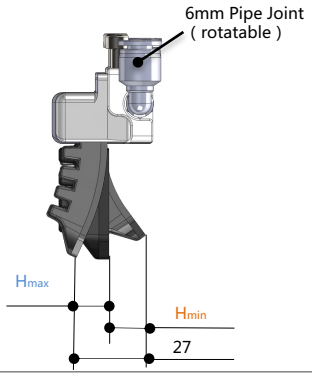


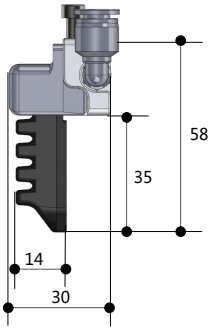

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V2/LS1[P]	FM-C5V2/LS1[PAS]	FM-C5V2/LS1[H]	FM-C5V2/LS1[HAS]

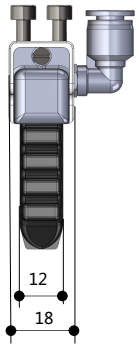
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	28	15	8	⚠ 220	91	28

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



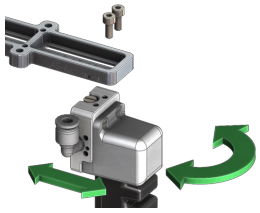




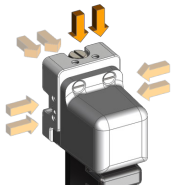
The measuring unit: [mm]

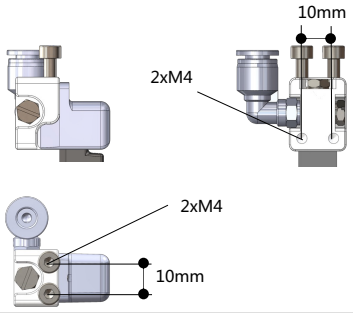
FM

Pose Adjustment

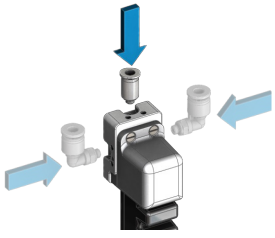


Fixation

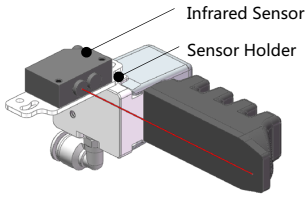




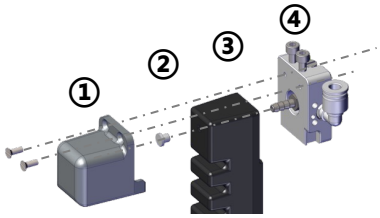
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

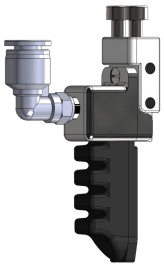
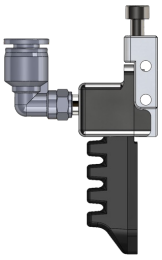
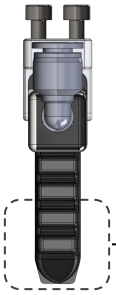
Finger Module

FM -C5V3 / LS1

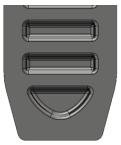
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

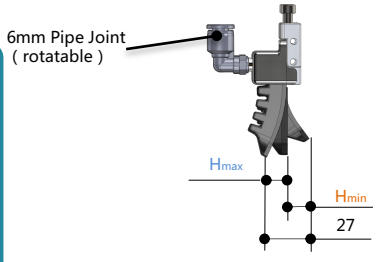


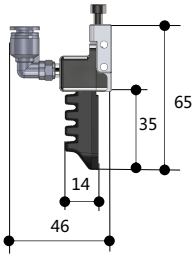

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V3/LS1[P]	FM-C5V3/LS1[PAS]	FM-C5V3/LS1[H]	FM-C5V3/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	26	15	8	⚠ 220	91	26

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

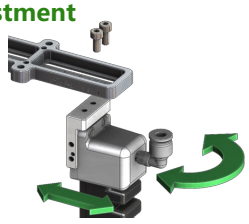




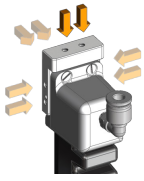


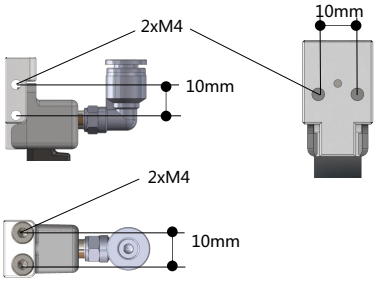
The measuring unit: [mm]

Pose Adjustment



Fixation

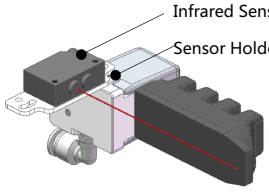




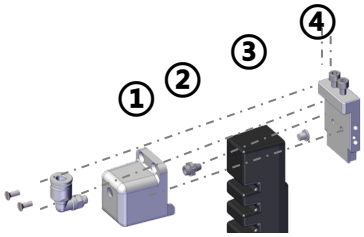
Air Intake



Sensor Installation

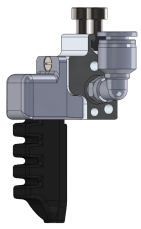


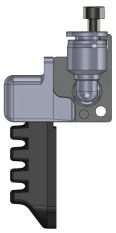
Assembly

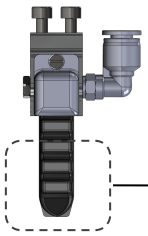


Spare Part:

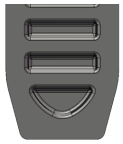
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



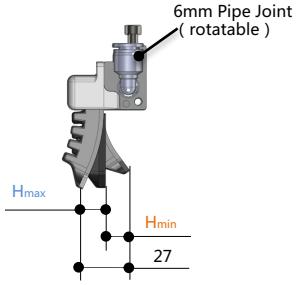


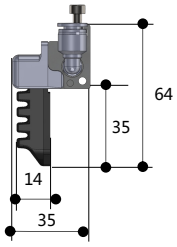
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V4/LS1[P]	FM-C5V4/LS1[PAS]	FM-C5V4/LS1[H]	FM-C5V4/LS1[HAS]

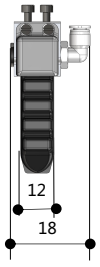
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	37	15	8	⚠ 220	91	37

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



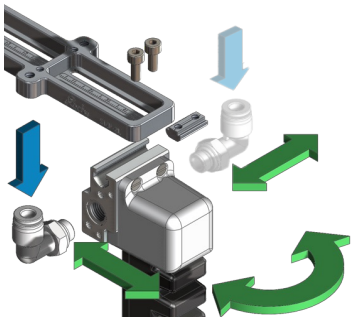




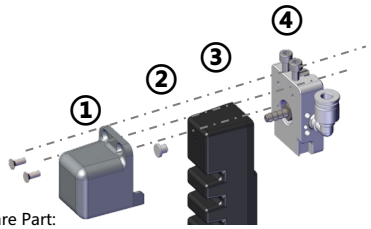
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



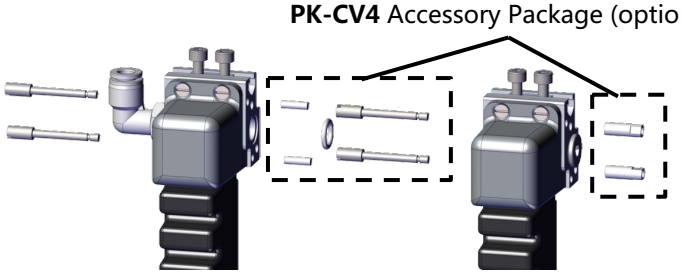
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

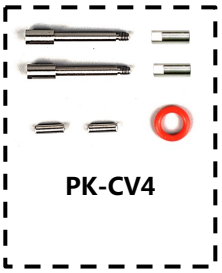
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





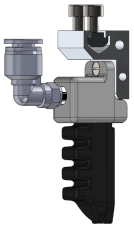
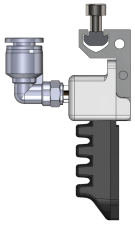
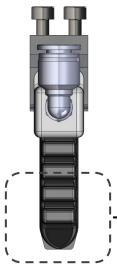
Finger Module

FM -C5V5 / LS1

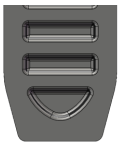
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

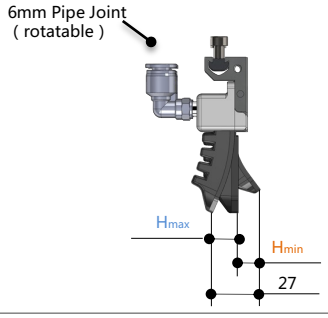


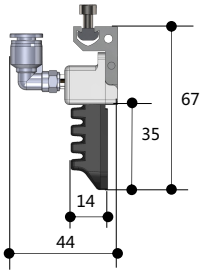

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V5/LS1[P]	FM-C5V5/LS1[PAS]	FM-C5V5/LS1[H]	FM-C5V5/LS1[HAS]

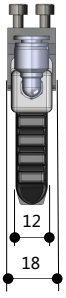
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	29	15	8	⚠220	91	29

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



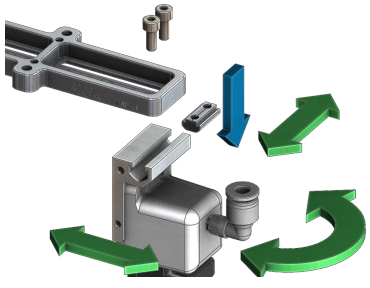




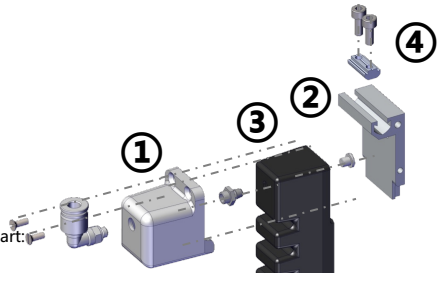
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



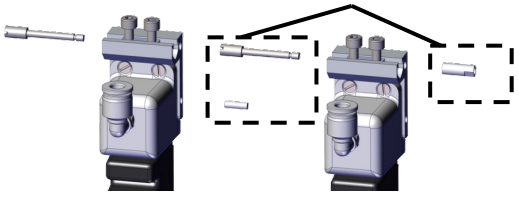
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

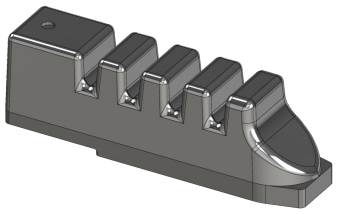
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

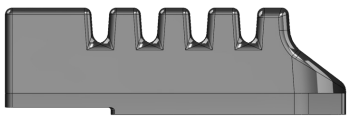
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)











Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C5T/LS1[P]	F-C5T/LS1[PAS]	F-C5T/LS1[H]	F-C5T/LS1[HAS]

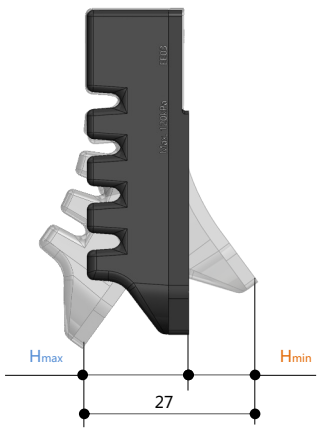
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	6	15	8	⚠220	91	6

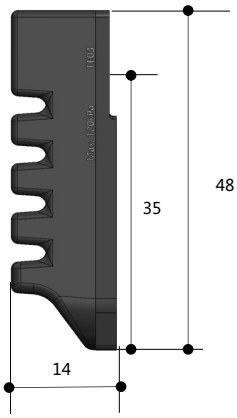
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

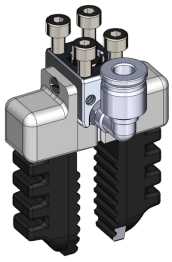
FM

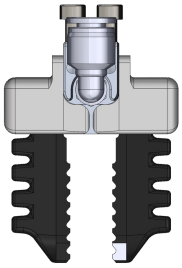
Dimension Parameters

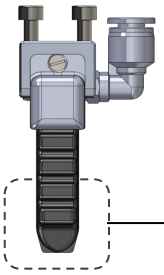




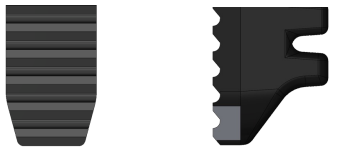








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

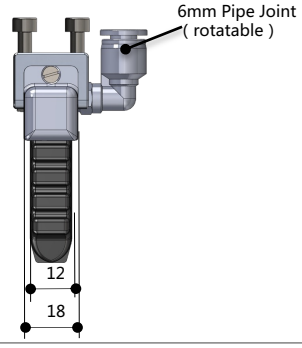


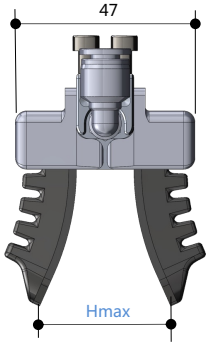
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V1/LS8[P]	FM-C5V1/LS8[PAS]	FM-C5V1/LS8[H]	FM-C5V1/LS8[HAS]

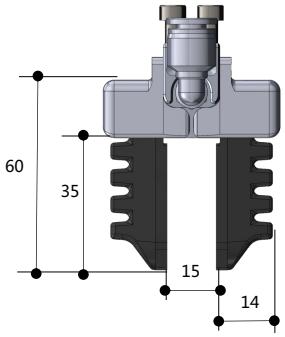
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	39	⚠120	196	45	0	31	⚠220	182	45

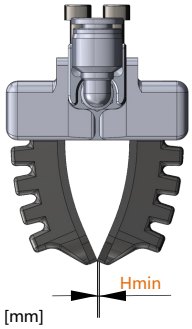
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



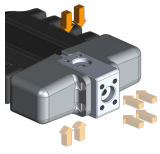


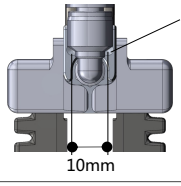


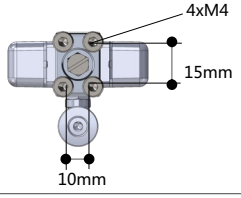


The measuring unit: [mm]

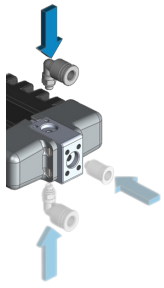
Fixation



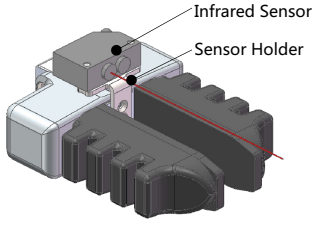




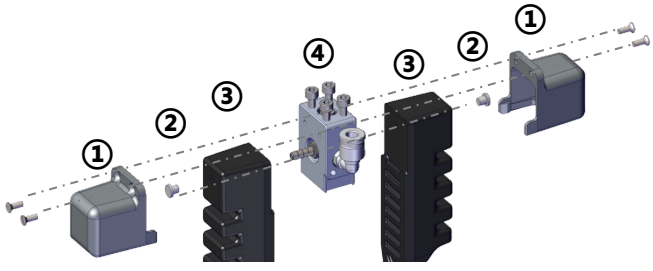
Air Intake



Sensor Installation

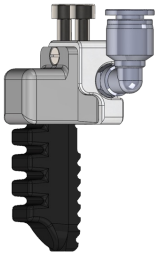
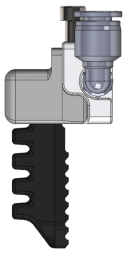
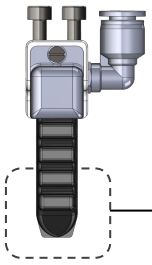


Assembly

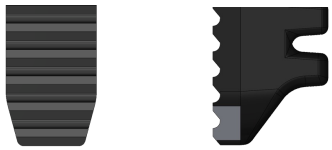


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

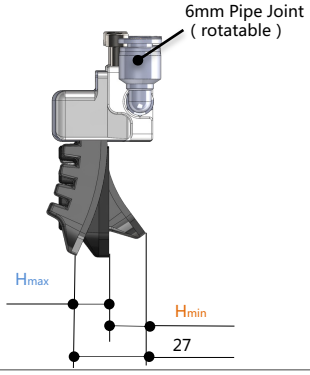


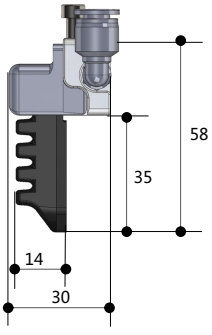
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V2/LS8[P]	FM-C5V2/LS8[PAS]	FM-C5V2/LS8[H]	FM-C5V2/LS8[HAS]

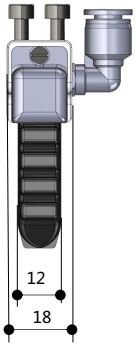
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	28	15	8	⚠ 220	91	28

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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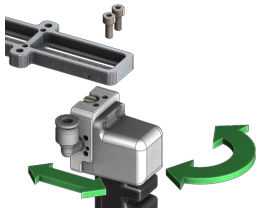




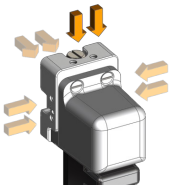
The measuring unit: [mm]

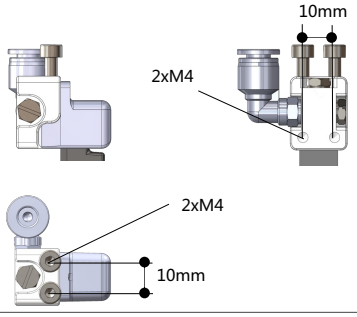
FM

Pose Adjustment

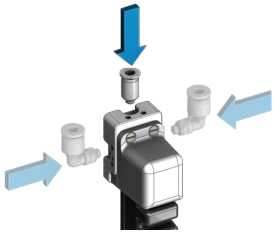


Fixation

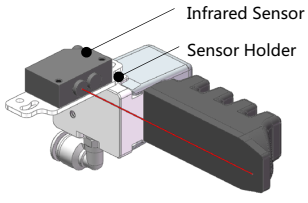




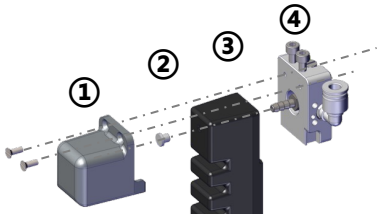
Air Intake



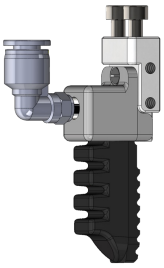
Sensor Installation

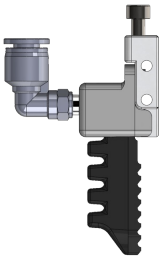


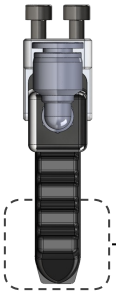
Assembly



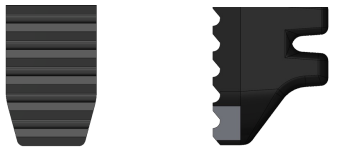
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

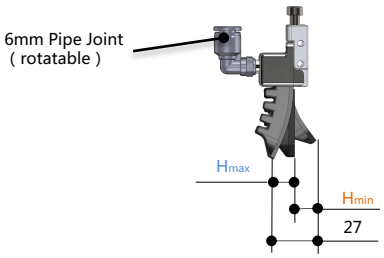


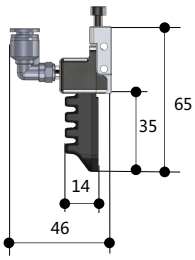
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V3/LS8[P]	FM-C5V3/LS8[PAS]	FM-C5V3/LS8[H]	FM-C5V3/LS8[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	26	15	8	⚠ 220	91	26

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



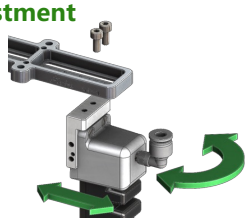




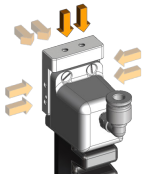
The measuring unit: [mm]

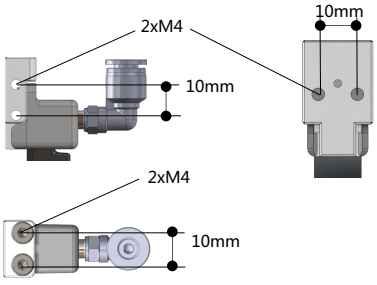
FM

Pose Adjustment



Fixation

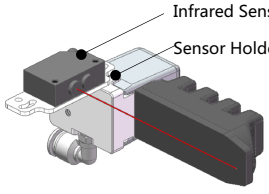




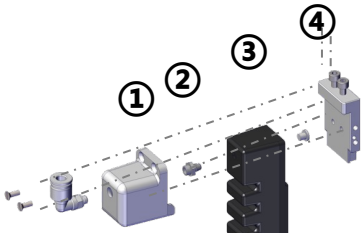
Air Intake



Sensor Installation

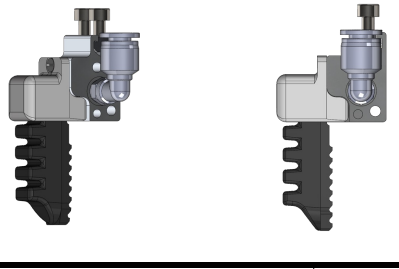


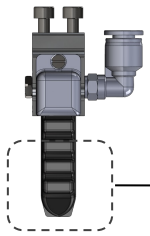
Assembly



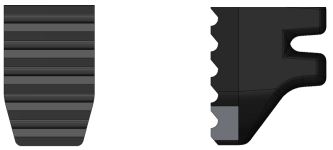
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block





Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

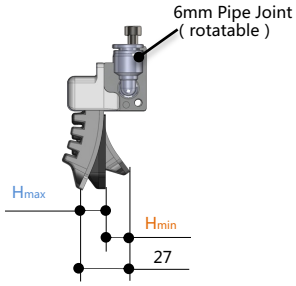


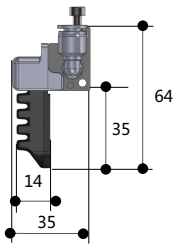
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V4/LS8[P]	FM-C5V4/LS8[PAS]	FM-C5V4/LS8[H]	FM-C5V4/LS8[HAS]

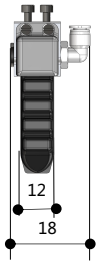
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	37	15	8	⚠ 220	91	37

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



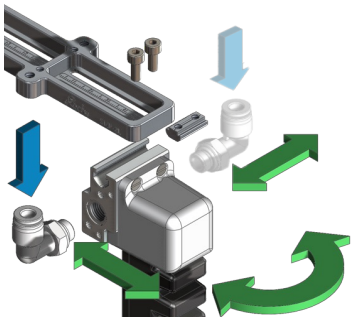




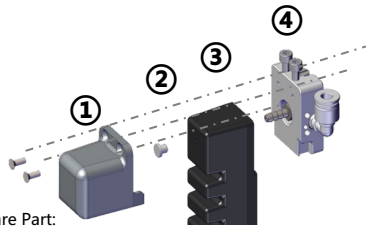
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



Spare Part:

① Shell

② Plug

③ Finger

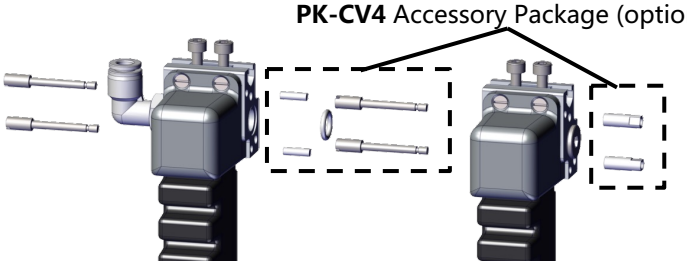
④ Mounting Block

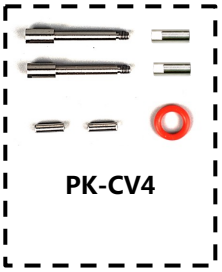
Series combination:

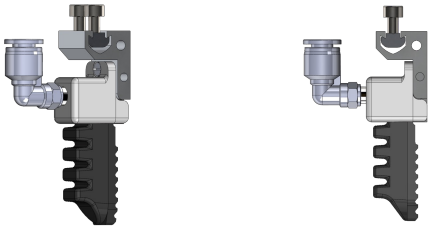
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

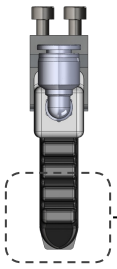
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)

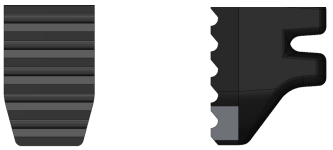








Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

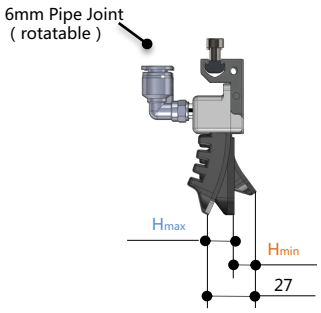


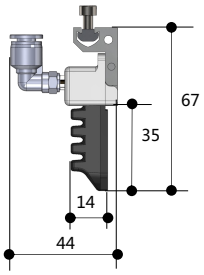
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V5/LS8[P]	FM-C5V5/LS8[PAS]	FM-C5V5/LS8[H]	FM-C5V5/LS8[HAS]

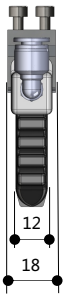
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	29	15	8	⚠ 220	91	29

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

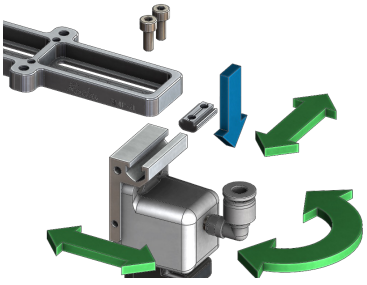




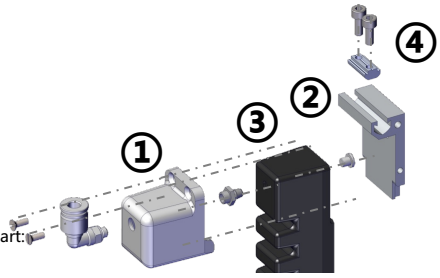


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



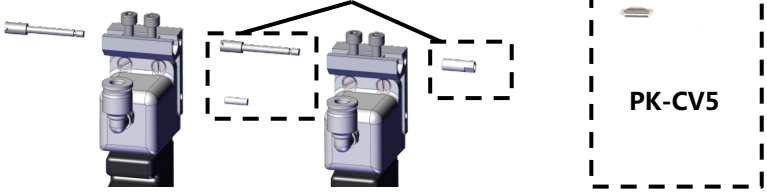
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

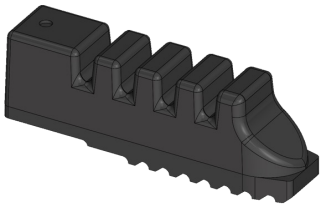
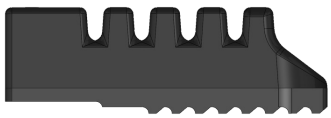
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)



FM


Finger Pattern		Features
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C5T/LS8[P]	F-C5T/LS8[PAS]	F-C5T/LS8[H]	F-C5T/LS8[HAS]

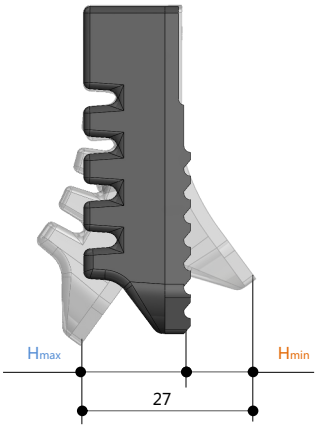
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	6	15	8	⚠220	91	6

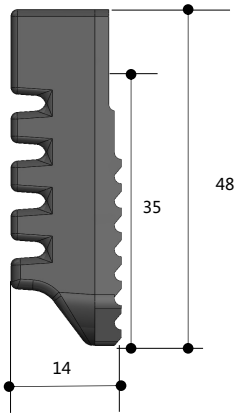
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

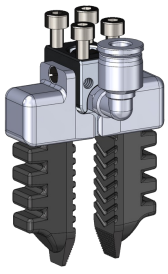
FM

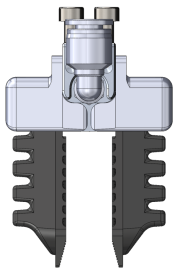
Dimension Parameters

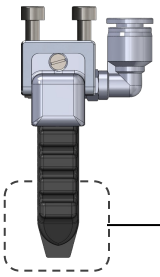












Finger Pattern	
FS3	Suitable for soft fabric products.

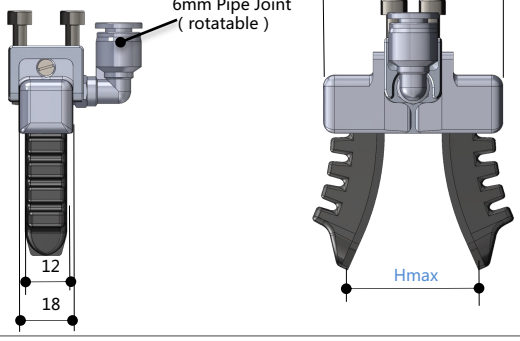


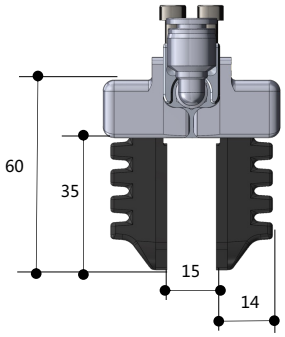
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V1/FS3[P]	FM-C5V1/FS3[PAS]	FM-C5V1/FS3[H]	FM-C5V1/FS3[HAS]

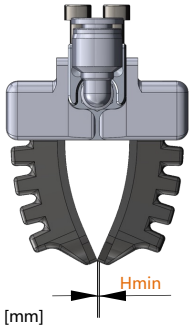
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	39	⚠120	196	45	0	31	⚠220	182	45

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



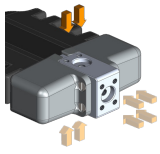


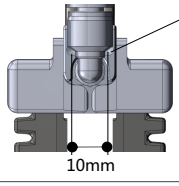


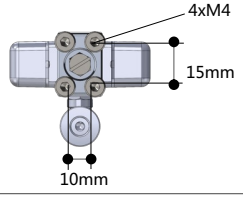
The measuring unit: [mm]

FM

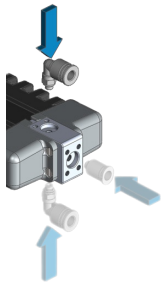
Fixation



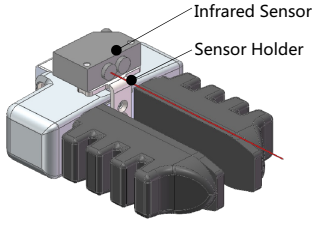




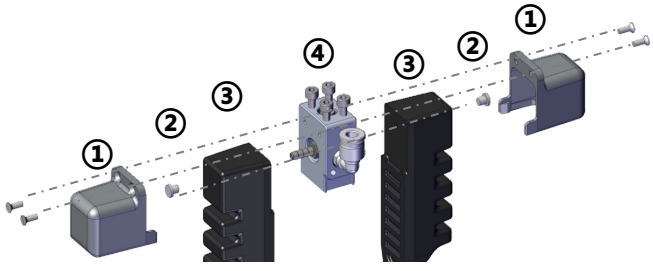
Air Intake



Sensor Installation

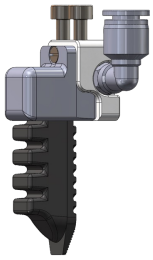
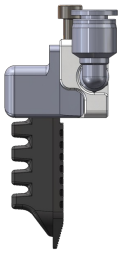
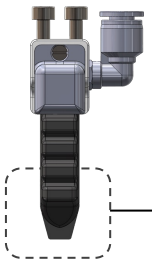


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
FS3	Suitable for soft fabric products.

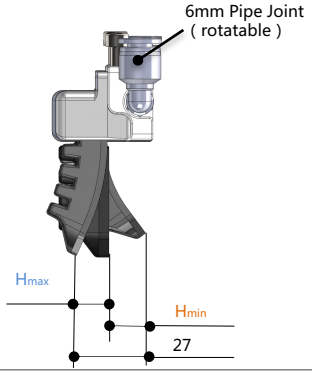


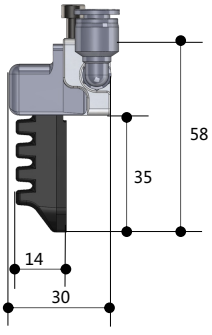
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V2/FS3[P]	FM-C5V2/FS3[PAS]	FM-C5V2/FS3[H]	FM-C5V2/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	28	15	8	⚠220	91	28

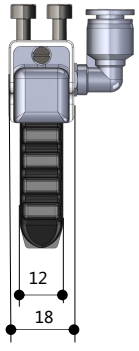
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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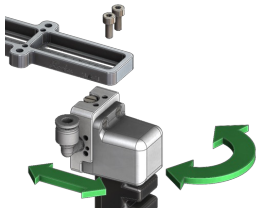




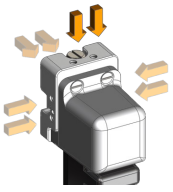
The measuring unit: [mm]

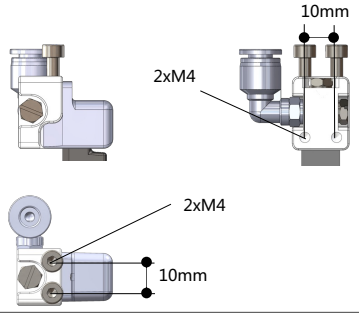


Pose Adjustment

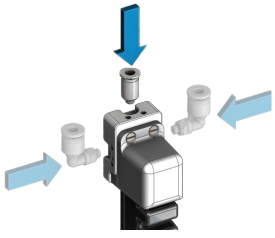


Fixation

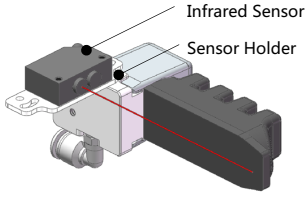




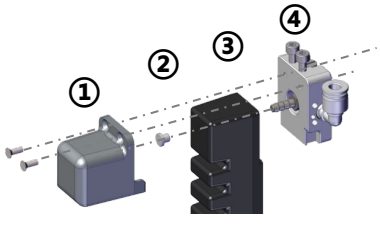
Air Intake



Sensor Installation

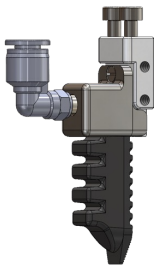


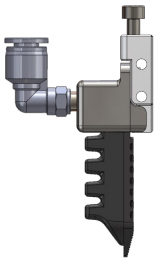
Assembly

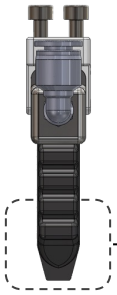


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
FS3	Suitable for soft fabric products.

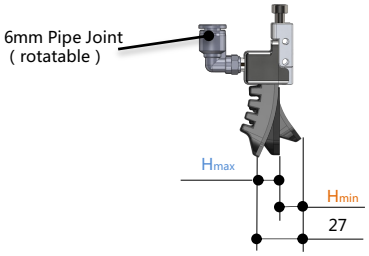


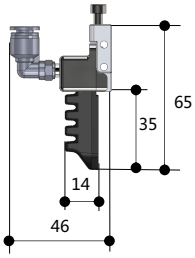
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V3/FS3[P]	FM-C5V3/FS3[PAS]	FM-C5V3/FS3[H]	FM-C5V3/FS3[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	26	15	8	⚠220	91	26

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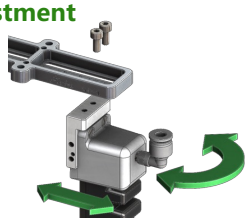




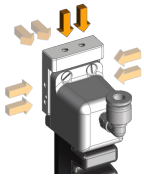


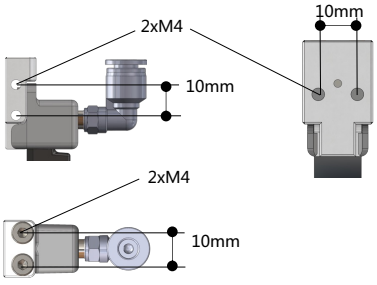
The measuring unit: [mm]

Pose Adjustment



Fixation

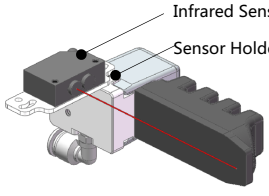




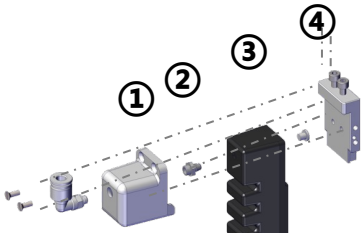
Air Intake



Sensor Installation

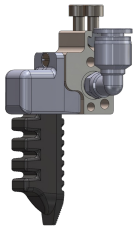


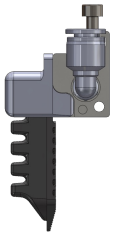
Assembly

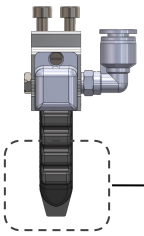


Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

FM







Finger Pattern	
FS3	Suitable for soft fabric products.

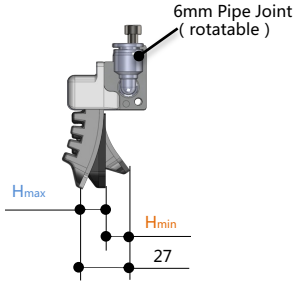


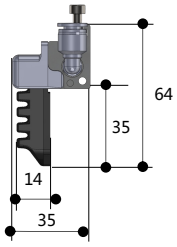
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V4/FS3[P]	FM-C5V4/FS3[PAS]	FM-C5V4/FS3[H]	FM-C5V4/FS3[HAS]

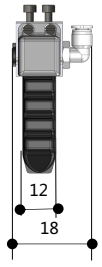
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	37	15	8	⚠220	91	37

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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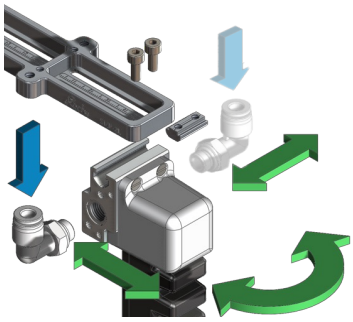




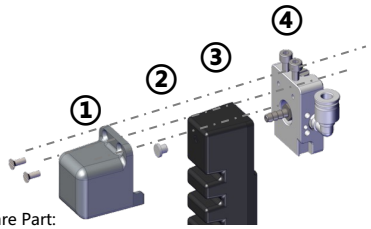
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



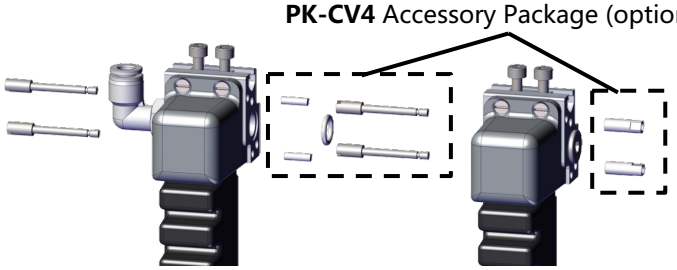
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

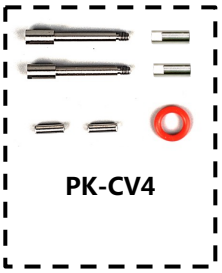
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





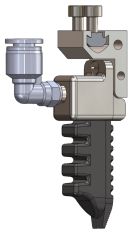
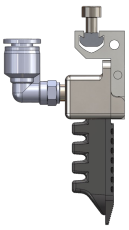
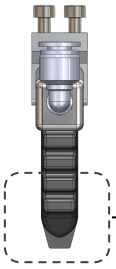
Finger Module

FM -C5V5 / FS3

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
FS3	Suitable for soft fabric products.

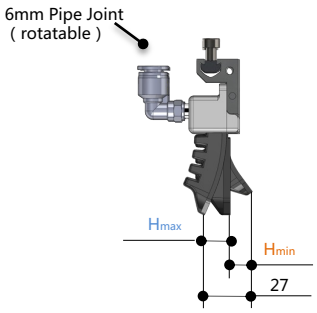


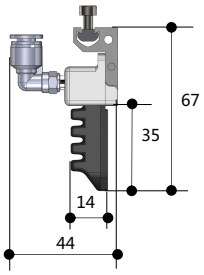

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V5/FS3[P]	FM-C5V5/FS3[PAS]	FM-C5V5/FS3[H]	FM-C5V5/FS3[HAS]

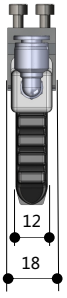
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	29	15	8	⚠ 220	91	29

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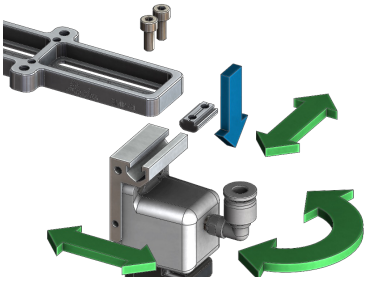




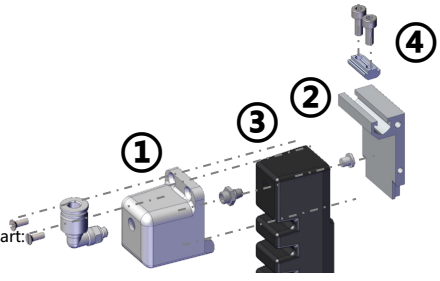
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



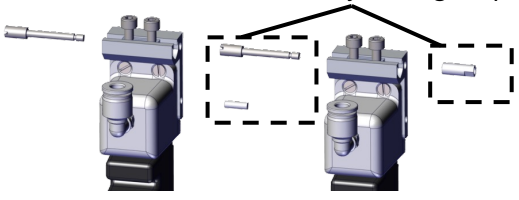
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

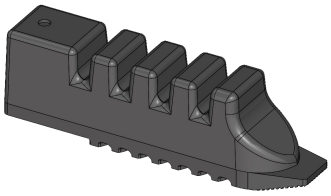
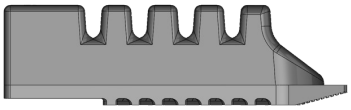
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)






Finger Pattern		Features
FS3	Special Form	Suitable for soft fabric products.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C5T/FS3[P]	F-C5T/FS3[PAS]	F-C5T/FS3[H]	F-C5T/FS3[HAS]

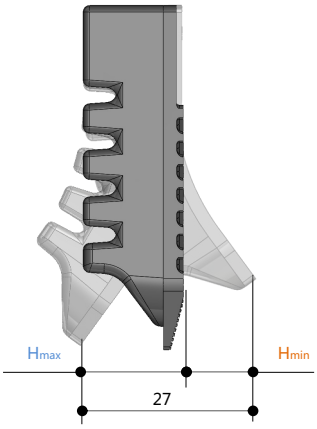
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	6	15	8	⚠220	91	6

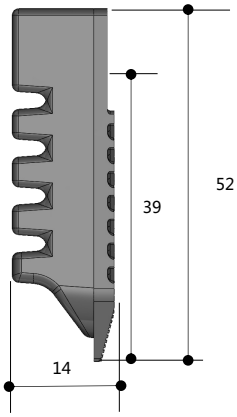
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

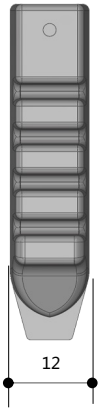
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

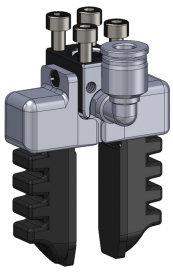
FM

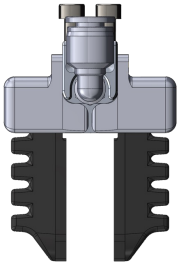
Dimension Parameters

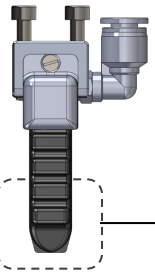












Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

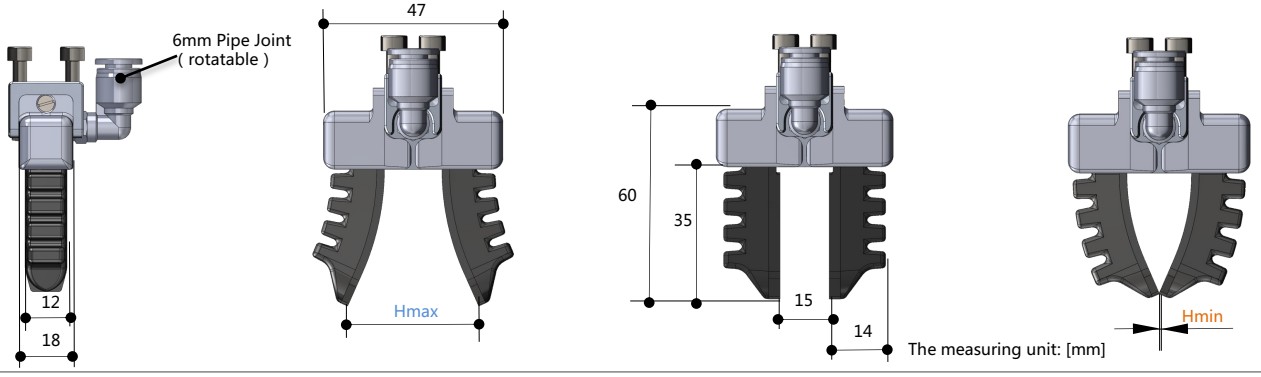


Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V1/LF1[P]	FM-C5V1/LF1[PAS]	FM-C5V1/LF1[H]	FM-C5V1/LF1[HAS]

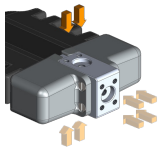
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	39	⚠120	196	45	0	31	⚠220	182	45

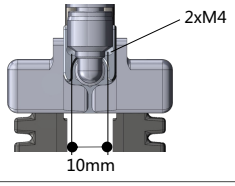
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

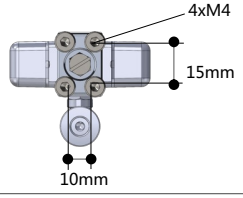
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



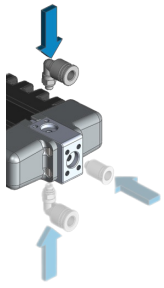
Fixation



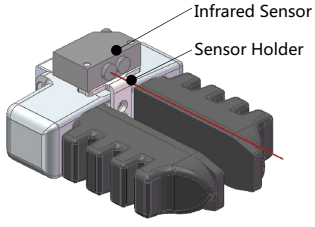




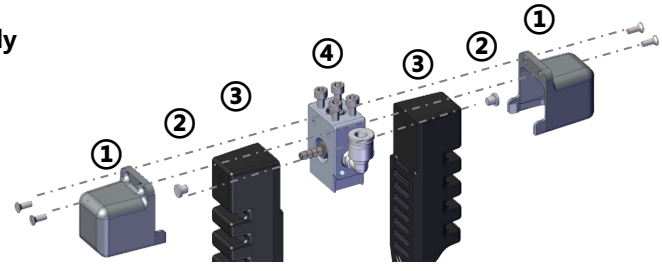
Air Intake



Sensor Installation



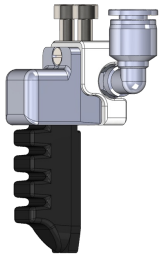
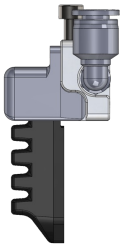
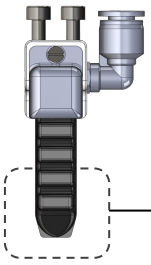
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

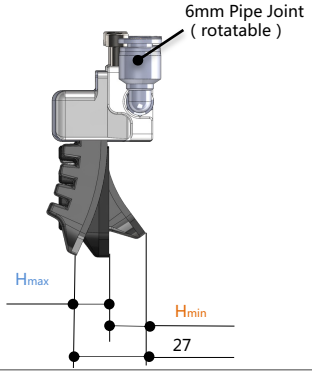


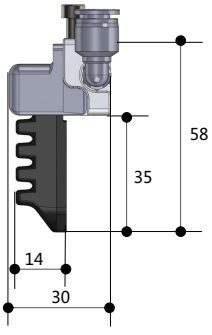
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V2/LF1[P]	FM-C5V2/LF1[PAS]	FM-C5V2/LF1[H]	FM-C5V2/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	28	15	8	⚠220	91	28

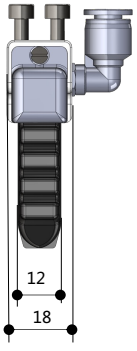
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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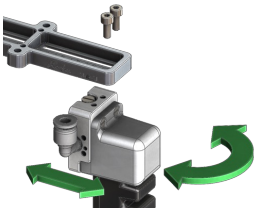


The measuring unit: [mm]

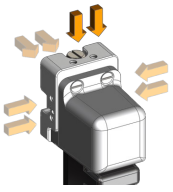


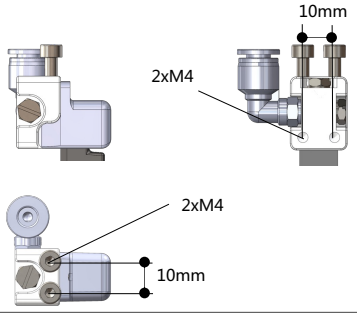
FM

Pose Adjustment

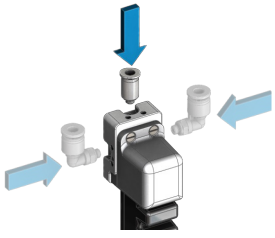


Fixation

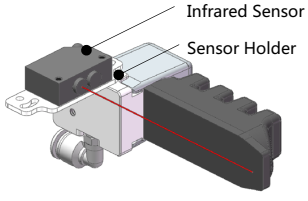




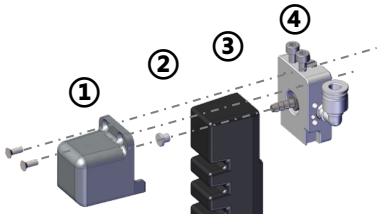
Air Intake



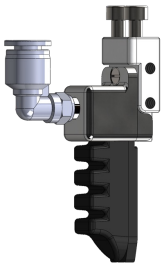
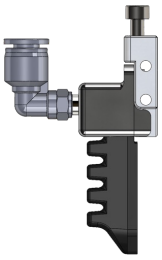
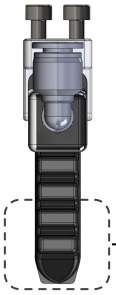
Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

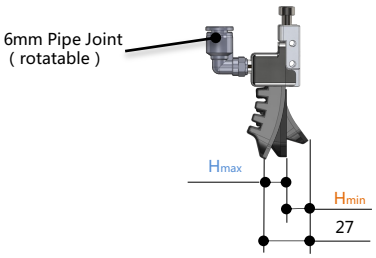


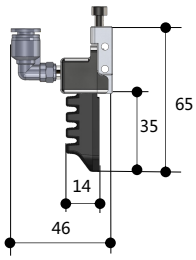
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V3/LF1[P]	FM-C5V3/LF1[PAS]	FM-C5V3/LF1[H]	FM-C5V3/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	26	15	8	⚠220	91	26

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



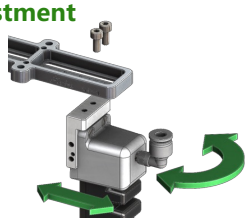




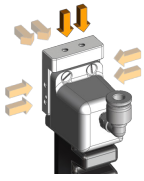
The measuring unit: [mm]

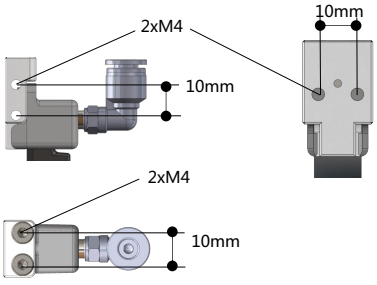
FM

Pose Adjustment



Fixation

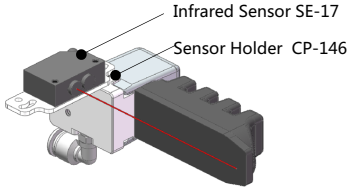




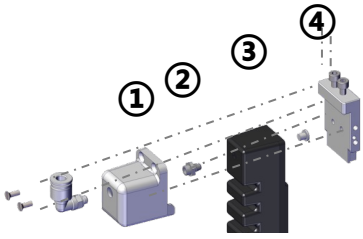
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

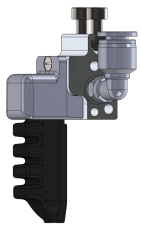
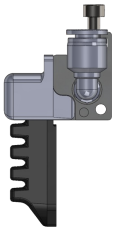
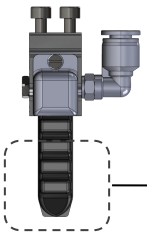
Finger Module

FM -C5V4 / LF1

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

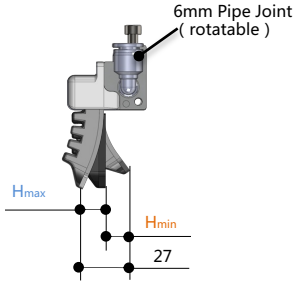


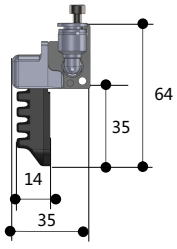
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V4/LS1[P]	FM-C5V4/LS1[PAS]	FM-C5V4/LS1[H]	FM-C5V4/LS1[HAS]

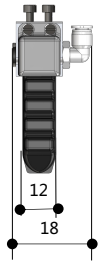
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	37	15	8	⚠220	91	37

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



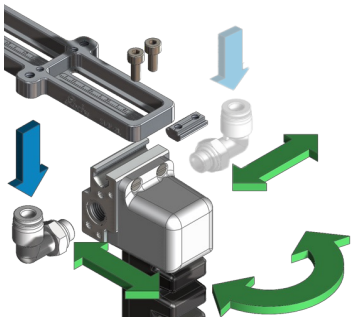




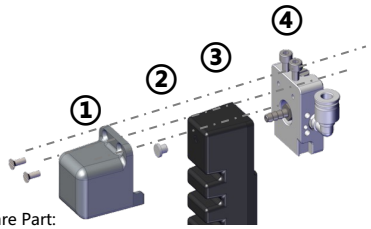
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



Spare Part:

① Shell

② Plug

③ Finger

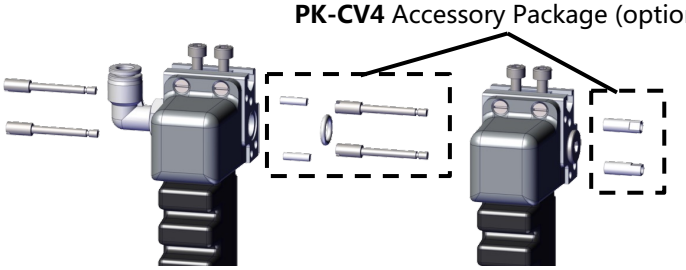
④ Mounting Block

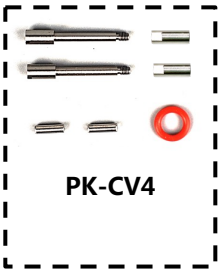
Series combination:

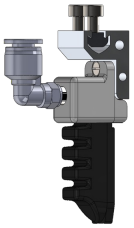
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

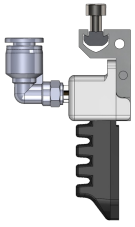
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

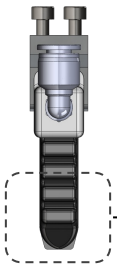
PK-CV4 Accessory Package (optional)











Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

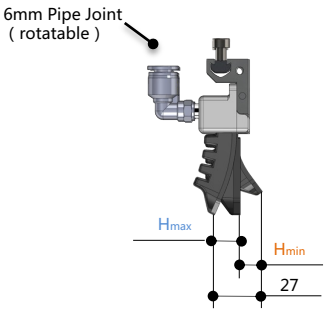


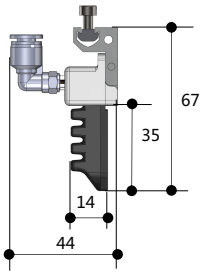
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C5V5/LF1[P]	FM-C5V5/LF1[PAS]	FM-C5V5/LF1[H]	FM-C5V5/LF1[HAS]

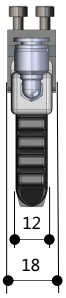
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	29	15	8	⚠ 220	91	29

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

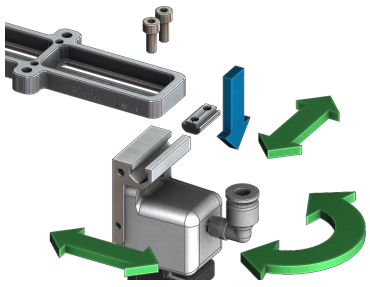




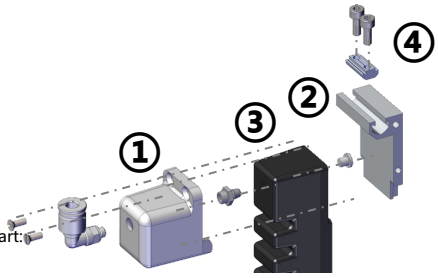


The measuring unit: [mm]

Air Intake & Pose Adjustment



Assembly



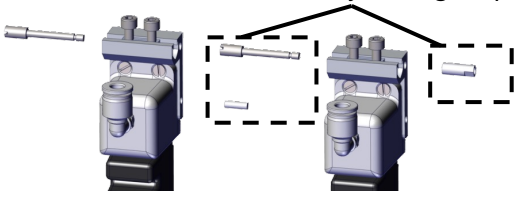
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

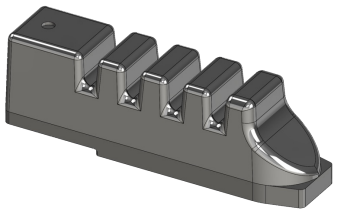
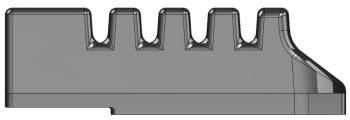
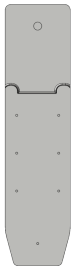
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)





FM

Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C5T/LF1[P]	F-C5T/LF1[PAS]	F-C5T/LF1[H]	F-C5T/LF1[HAS]

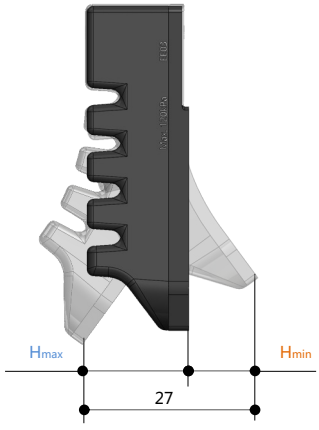
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
15	12	⚠120	98	6	15	8	⚠220	91	6

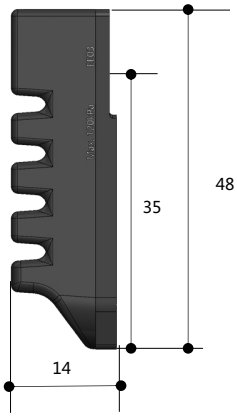
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







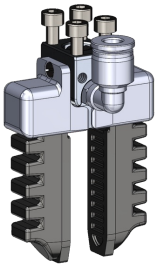
Finger Module

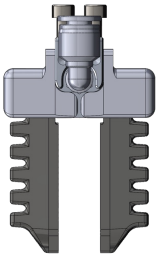
FM -C6V1 / LS1

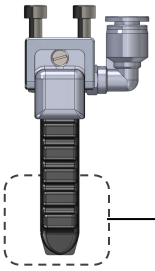
https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

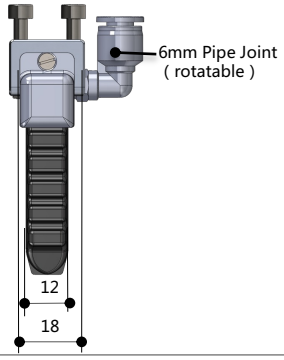


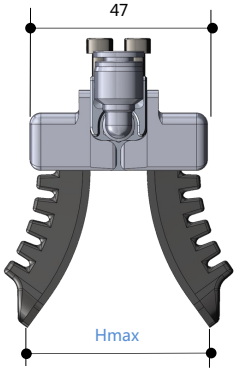
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C6V1/LS1[P]	FM-C6V1/LS1[PAS]	FM-C6V1/LS1[H]	FM-C6V1/LS1[HAS]

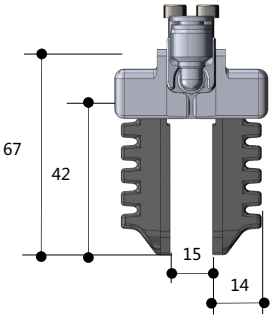
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	64	⚠ 120	g 142	102	0	52	⚠ 220	g 154	102

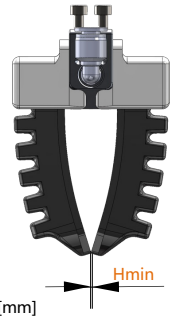
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





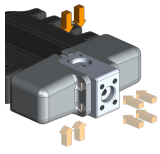


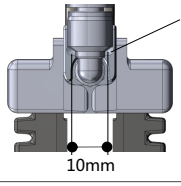


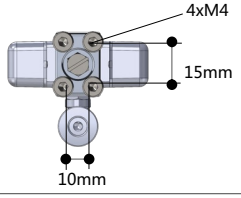
The measuring unit: [mm]

FM

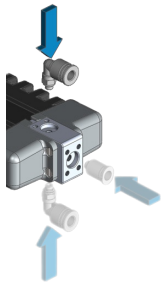
Fixation



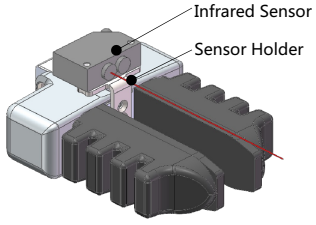




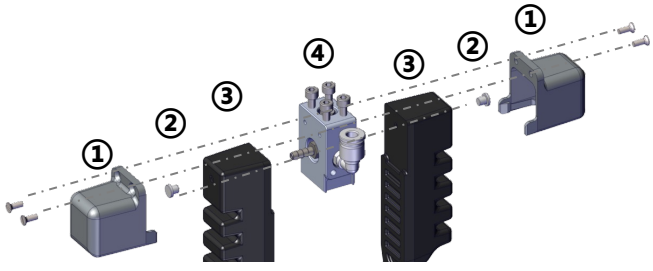
Air Intake



Sensor Installation

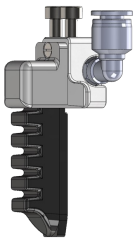
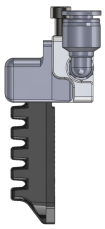
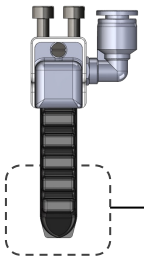


Assembly

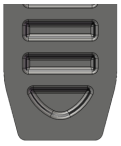


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

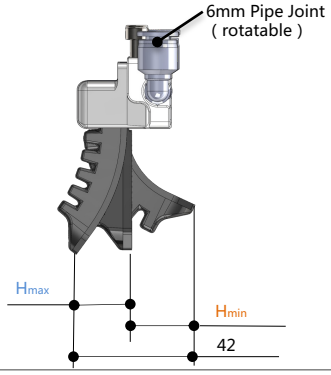


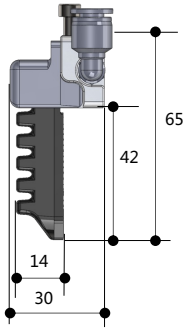

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C6V2/LS1[P]	FM-C6V2/LS1[PAS]	FM-C6V2/LS1[H]	FM-C6V2/LS1[HAS]

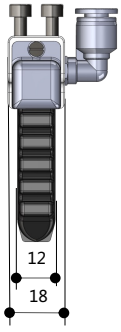
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
22	20	⚠120	71	29	22	10	⚠220	77	29

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



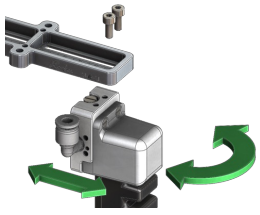




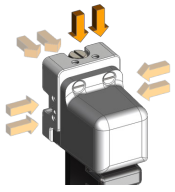
The measuring unit: [mm]

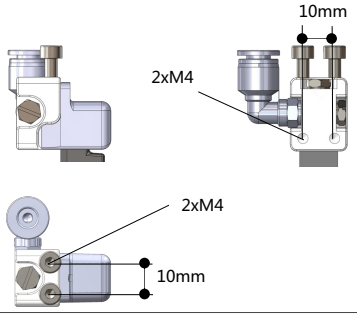
FM

Pose Adjustment

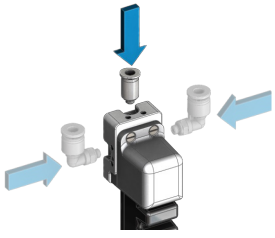


Fixation

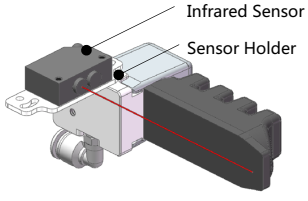




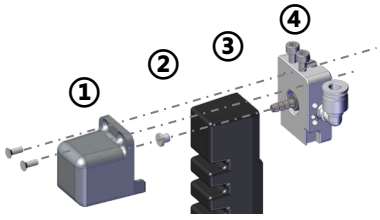
Air Intake



Sensor Installation



Assembly



Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

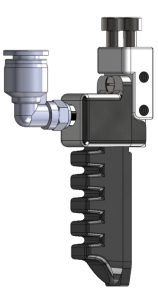
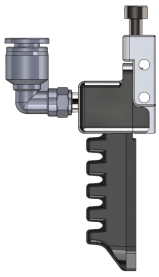
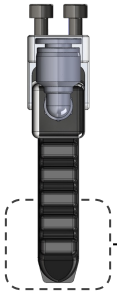
Finger Module

FM -C6V3 / LS1

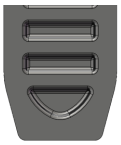
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



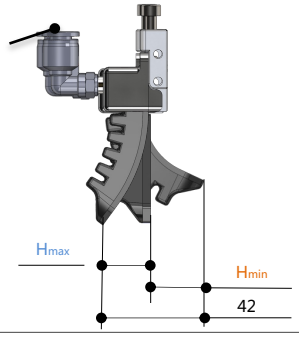

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C6V3/LS1[P]	FM-C6V3/LS1[PAS]	FM-C6V3/LS1[H]	FM-C6V3/LS1[HAS]

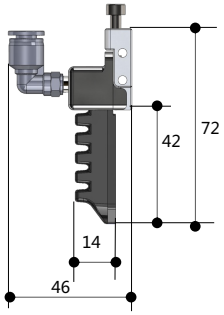
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
22	20	⚠120	71	26	22	10	⚠ 220	77	26

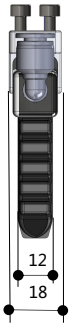
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)



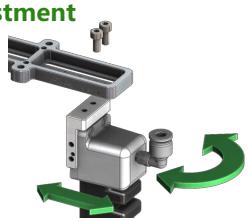




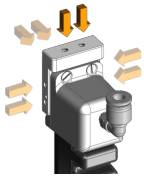
The measuring unit: [mm]

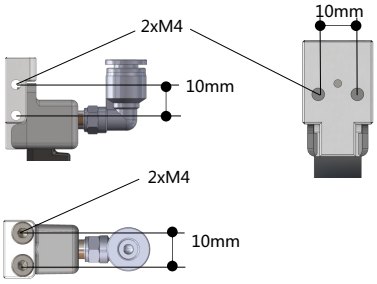
FM

Pose Adjustment



Fixation

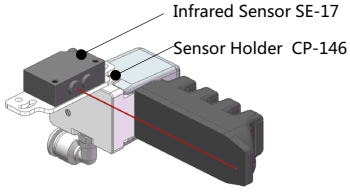




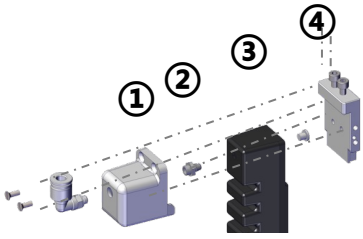
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

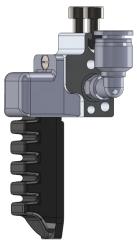
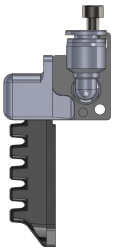
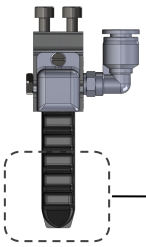
Finger Module

FM -C6V4 / LS1

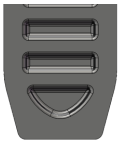
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

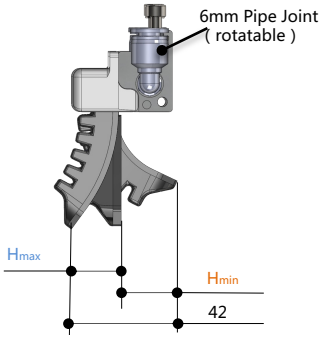


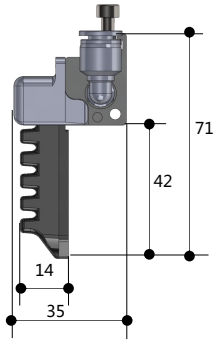

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C6V4/LS1[P]	FM-C6V4/LS1[PAS]	FM-C6V4/LS1[H]	FM-C6V4/LS1[HAS]

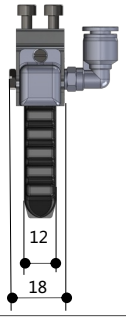
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
22	20	⚠120	71	38	22	10	⚠220	77	38

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



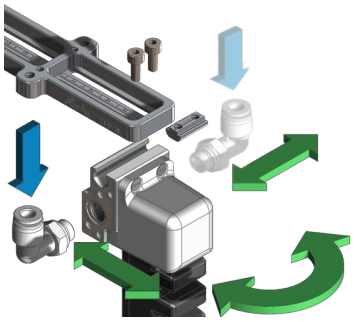




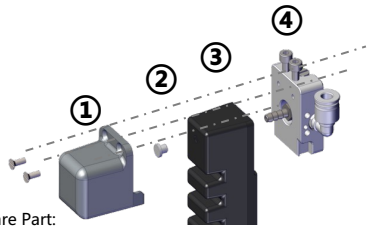
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



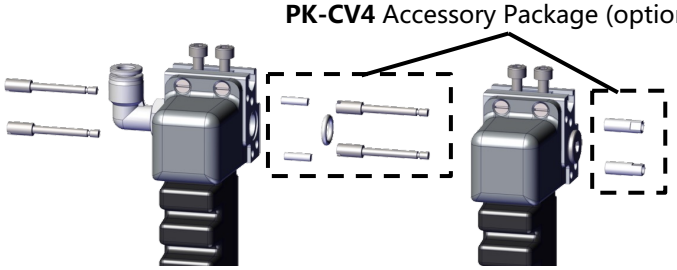
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

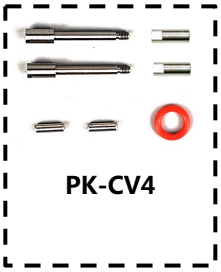
Series combination:

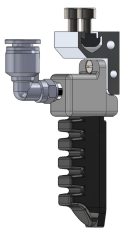
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

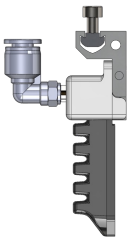
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

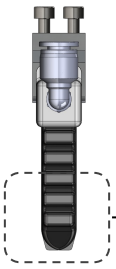
PK-CV4 Accessory Package (optional)











Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.



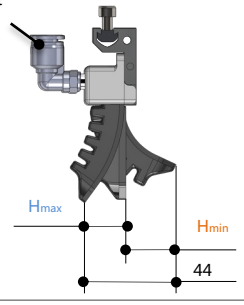
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C6V5/LS1[P]	FM-C6V5/LS1[PAS]	FM-C6V5/LS1[H]	FM-C6V5/LS1[HAS]

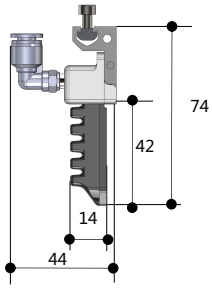
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
22	20	⚠120	71	30	22	10	⚠220	77	30

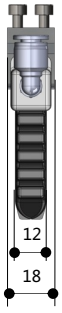
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint (rotatable)



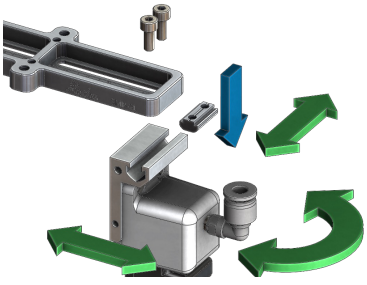




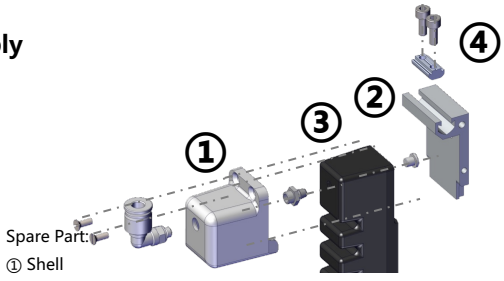
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



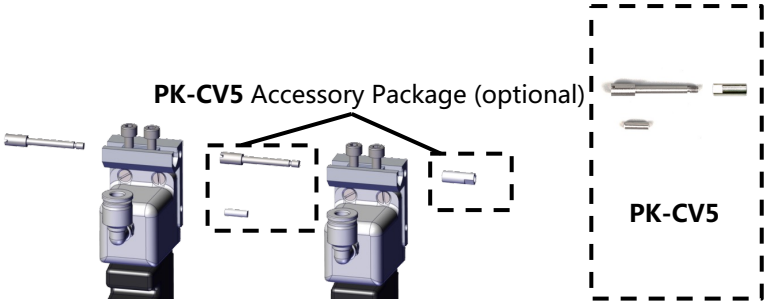
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

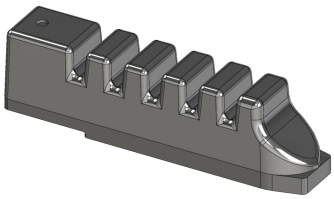
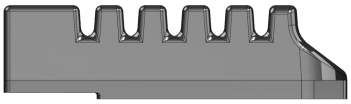
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)




Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C6T/LS1[P]	F-C6T/LS1[PAS]	F-C6T/LS1[H]	F-C6T/LS1[HAS]

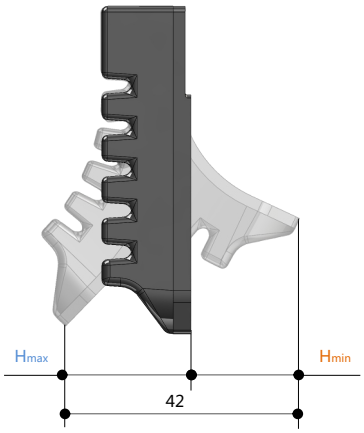
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
22	20	⚠120	71	7	22	10	⚠220	77	7

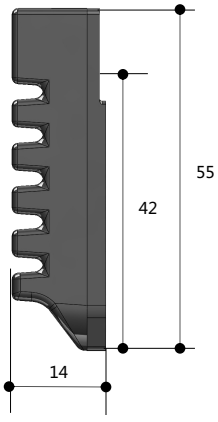
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

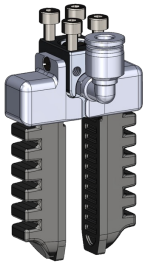
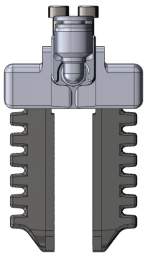
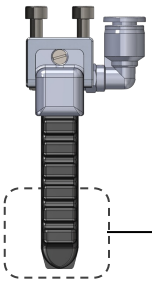
FM

Dimension Parameters







Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

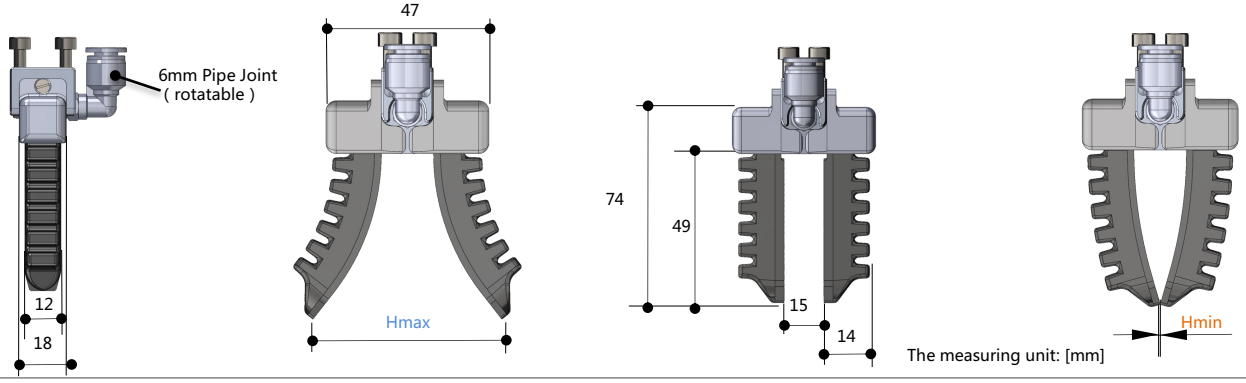


Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V1/LS1[P]	FM-C7V1/LS1[PAS]	FM-C7V1/LS1[H]	FM-C7V1/LS1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	78	⚠ 120	g 140	110	0	60	⚠ 220	g 156	110

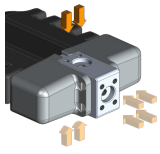
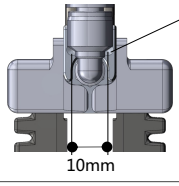
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

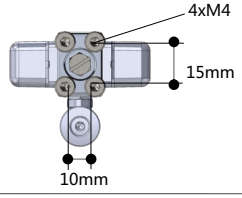
g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



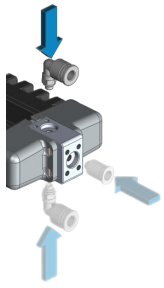
FM

Fixation

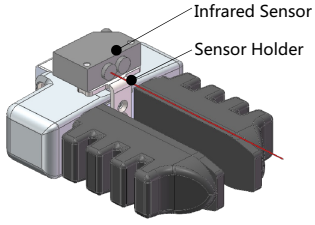





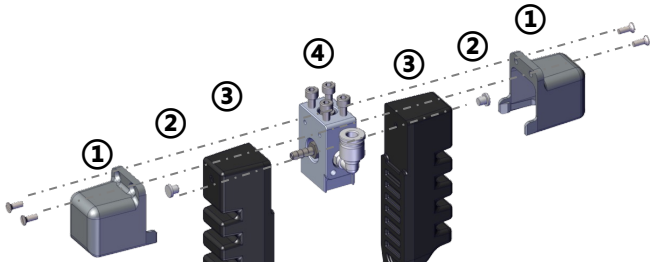
Air Intake



Sensor Installation

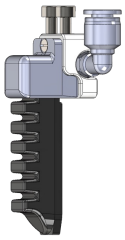
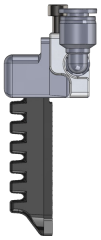
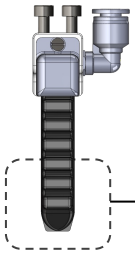


Assembly

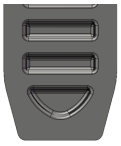


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

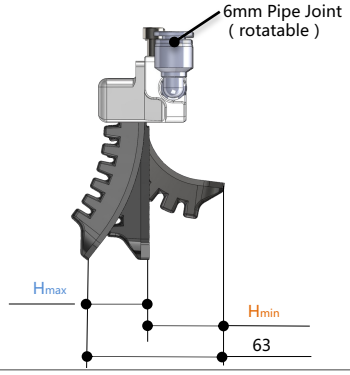


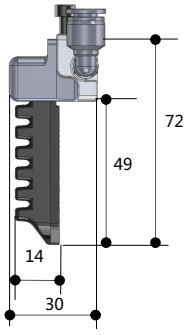

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V2/LS1[P]	FM-C7V2/LS1[PAS]	FM-C7V2/LS1[H]	FM-C7V2/LS1[HAS]

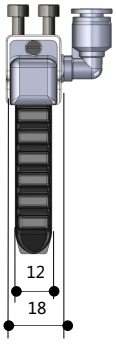
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	30	34	13	⚠220	78	30

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



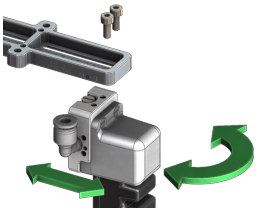




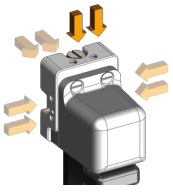
The measuring unit: [mm]

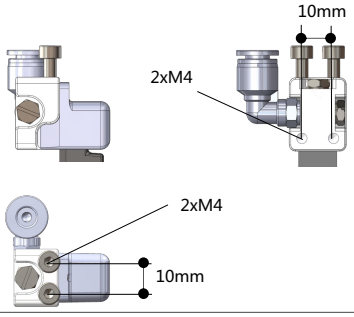
FM

Pose Adjustment

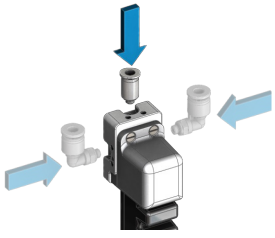


Fixation

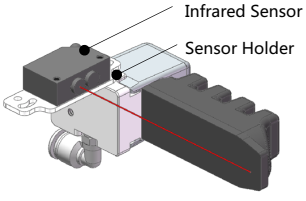




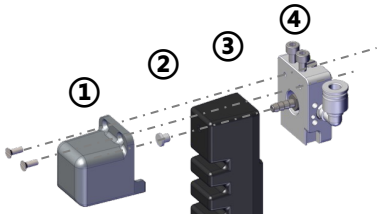
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

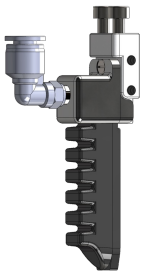
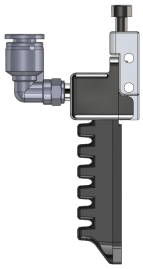
Finger Module

FM -C7V3 / LS1

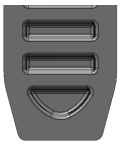
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

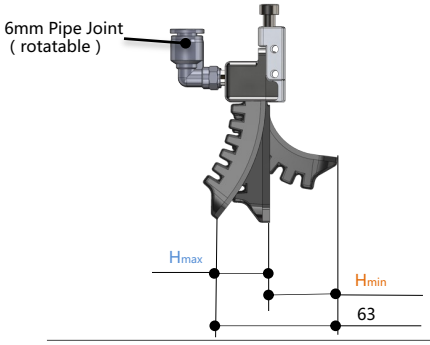


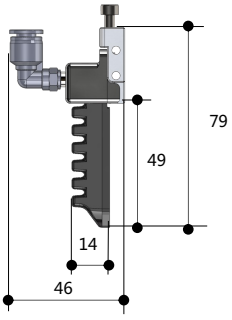

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V3/LS1[P]	FM-C7V3/LS1[PAS]	FM-C7V3/LS1[H]	FM-C7V3/LS1[HAS]

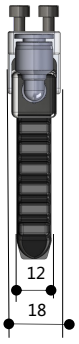
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	27	34	13	⚠220	78	27

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



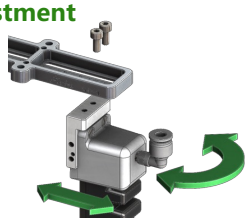




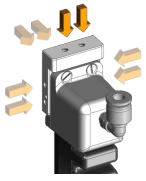
The measuring unit: [mm]

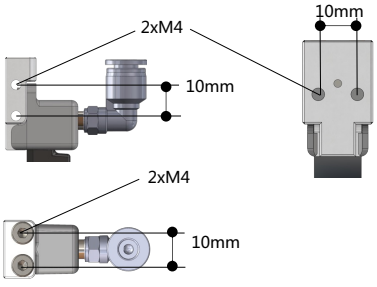
FM

Pose Adjustment



Fixation

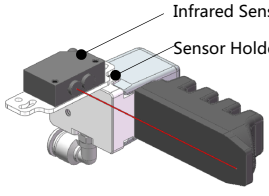




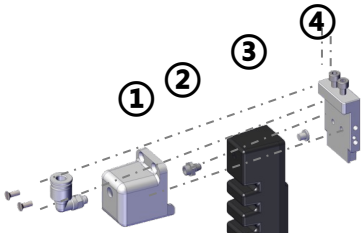
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

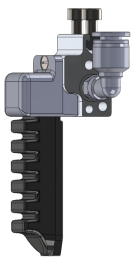
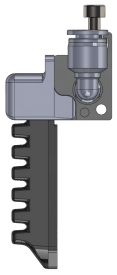
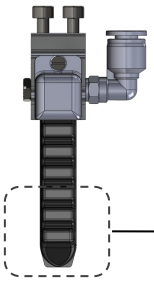
Finger Module

FM -C7V4 / LS1

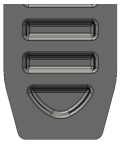
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

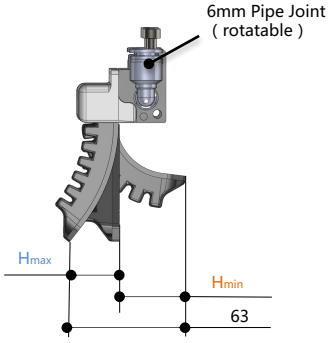


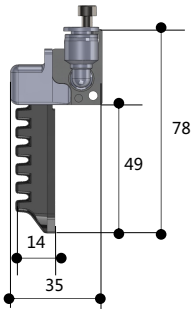

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V4/LS1[P]	FM-C7V4/LS1[PAS]	FM-C7V4/LS1[H]	FM-C7V4/LS1[HAS]

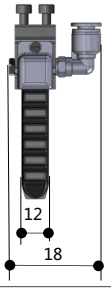
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	38	34	13	⚠ 220	78	38

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



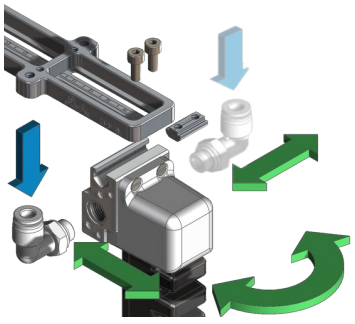




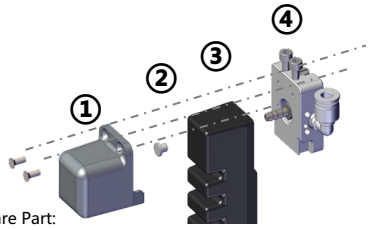
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



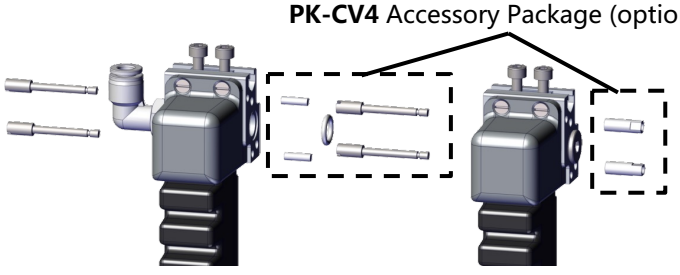
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

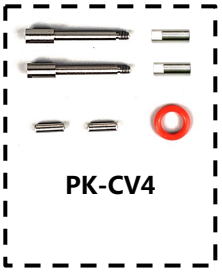
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





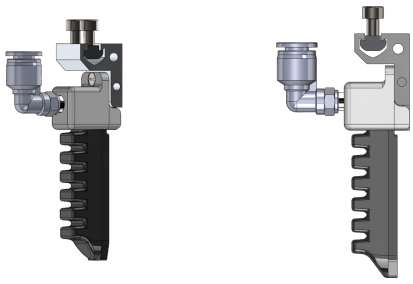
Finger Module

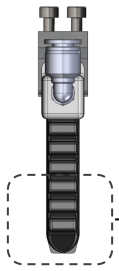
FM -C7V5 / LS1

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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

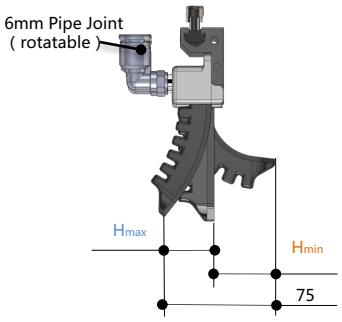


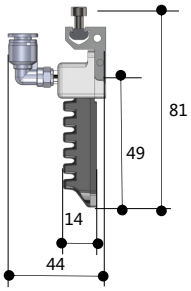
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V5/LS1[P]	FM-C7V5/LS1[PAS]	FM-C7V5/LS1[H]	FM-C7V5/LS1[HAS]

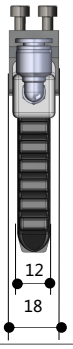
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	31	34	13	⚠ 220	78	31

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



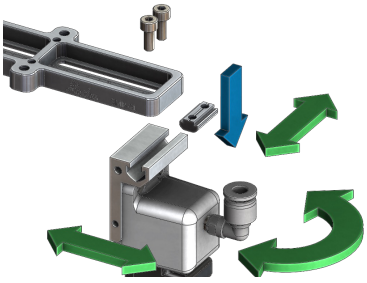




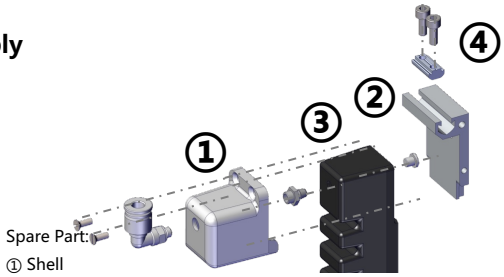
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



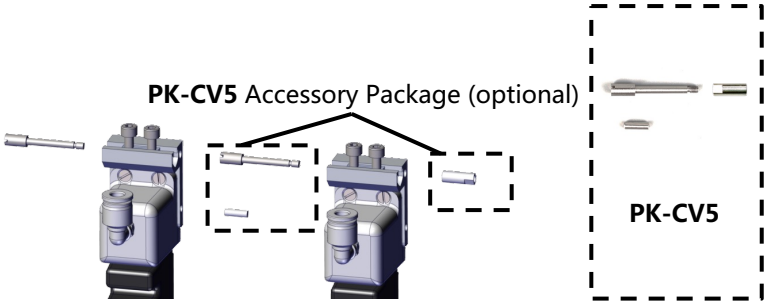
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

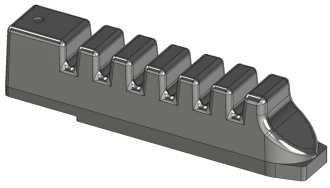
Series combination:

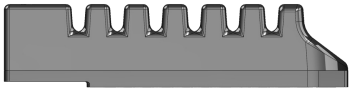
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)









Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C7T/LS1[P]	F-C7T/LS1[PAS]	F-C7T/LS1[H]	F-C7T/LS1[HAS]

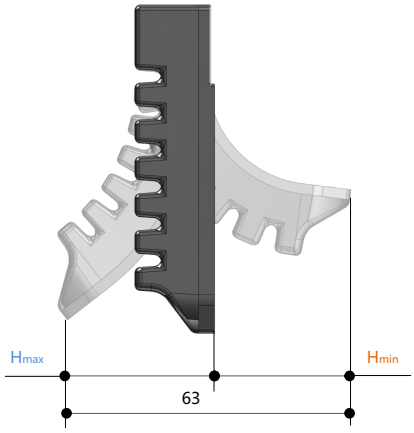
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	7	34	13	⚠220	78	7

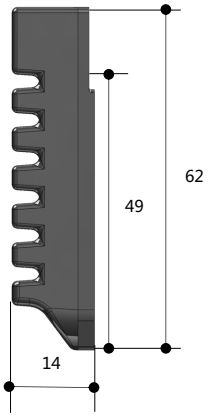
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

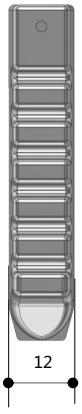
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







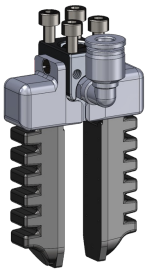
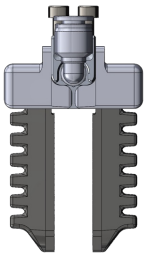
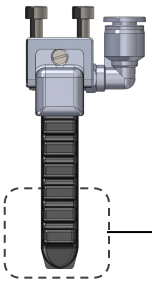
Finger Module

FM -C7V1 / LF1

https://rochu.partcommunity.com/3d-cad-models/

Download 3D-CAD-models for free

Scan to watch videos

Finger Pattern	
LS1	Suitable for smooth dry workpieces and soft food.

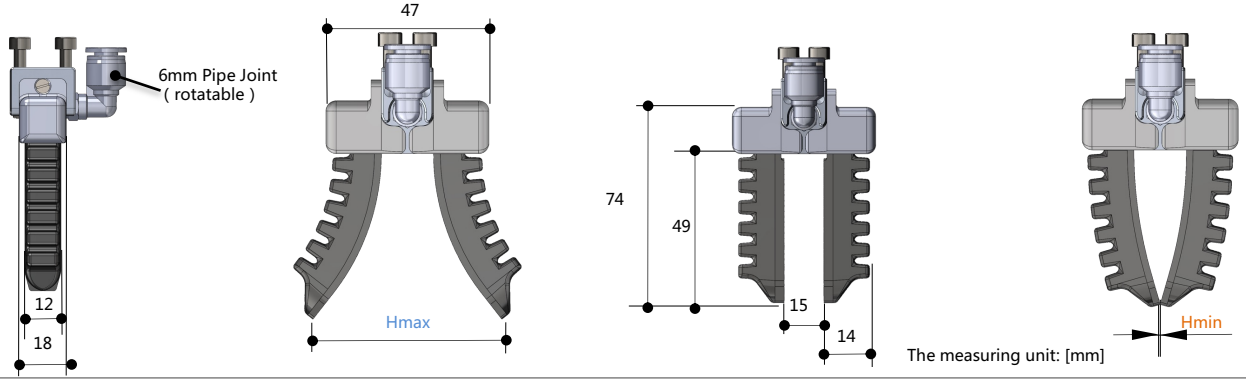


Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V1/LF1[P]	FM-C7V1/LF1[PAS]	FM-C7V1/LF1[H]	FM-C7V1/LF1[HAS]

Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	78	⚠120	142	110	0	60	⚠220	156	110

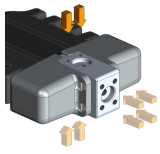
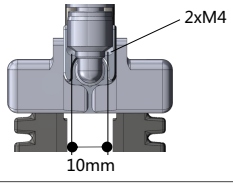
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

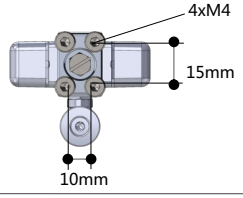
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



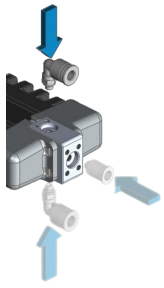
FM

Fixation

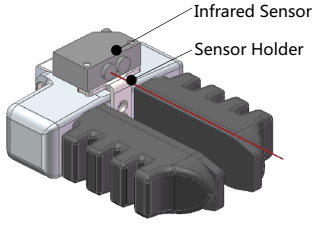





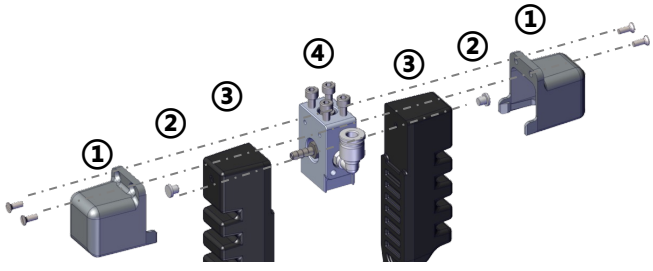
Air Intake



Sensor Installation

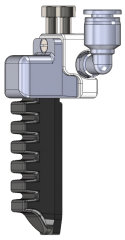
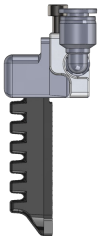
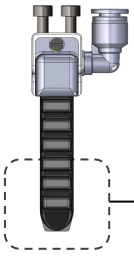


Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Suitable for smooth dry workpieces and soft food.

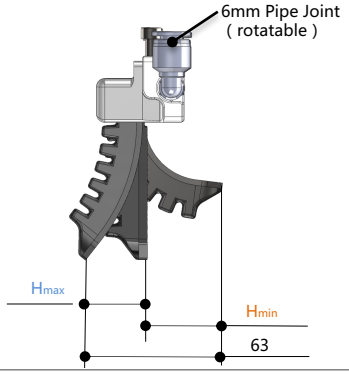


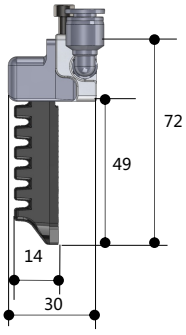
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V2/LF1[P]	FM-C7V2/LF1[PAS]	FM-C7V2/LF1[H]	FM-C7V2/LF1[HAS]

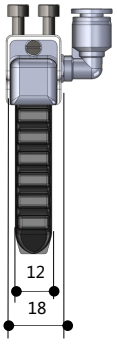
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	30	34	13	⚠ 220	78	30

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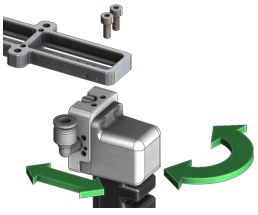




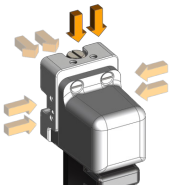
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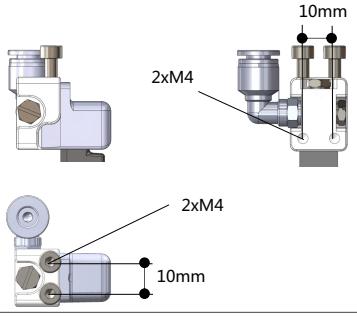
FM

Pose Adjustment

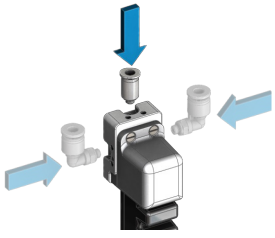


Fixation

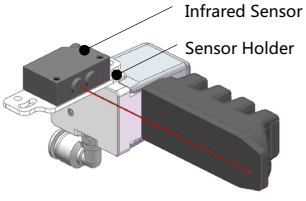




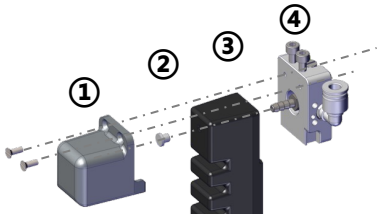
Air Intake



Sensor Installation

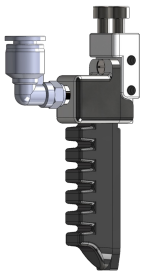


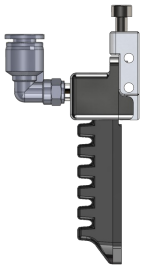
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block







Finger Pattern	
LS1	Suitable for smooth dry workpieces and soft food.

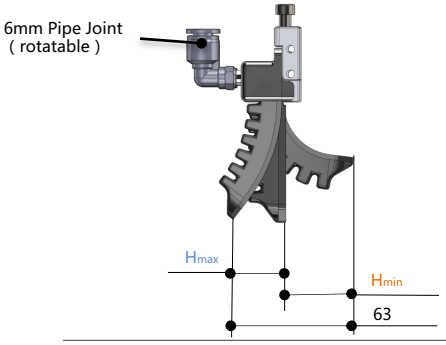


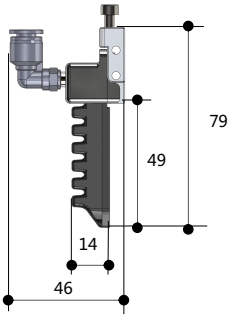
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V3/LF1[P]	FM-C7V3/LF1[PAS]	FM-C7V3/LF1[H]	FM-C7V3/LF1[HAS]

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Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	27	34	13	⚠220	78	27

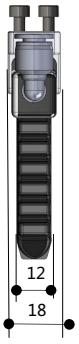
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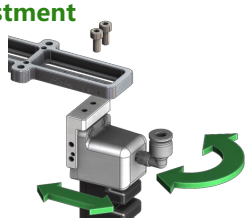


The measuring unit: [mm]

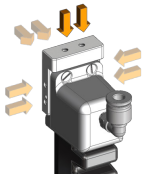


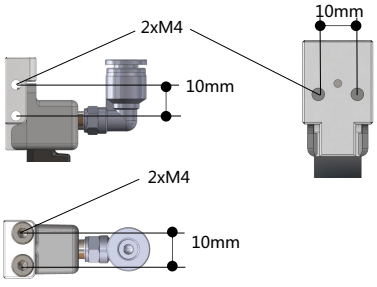
FM

Pose Adjustment



Fixation

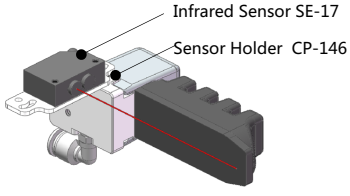




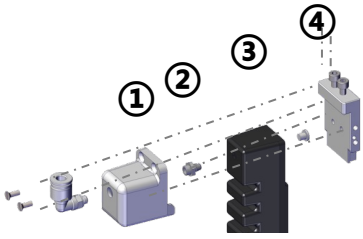
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

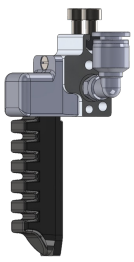
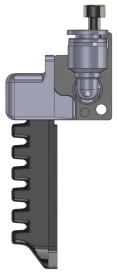
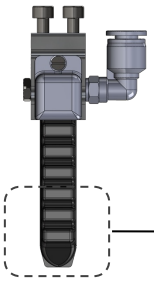
Finger Module

FM -C7V4 / LF1

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Finger Pattern	
LS1	Suitable for smooth dry workpieces and soft food.

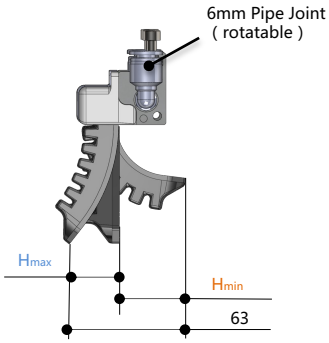


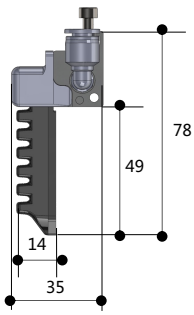
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V4/LF1[P]	FM-C7V4/LF1[PAS]	FM-C7V4/LF1[H]	FM-C7V4/LF1[HAS]

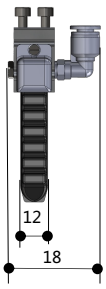
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠ 120	70	38	34	13	⚠ 220	78	38

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



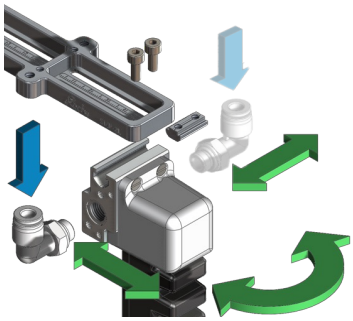




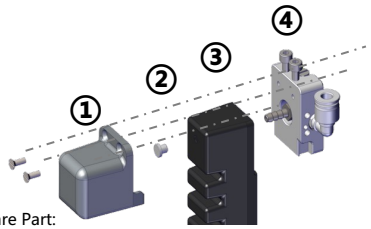
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly

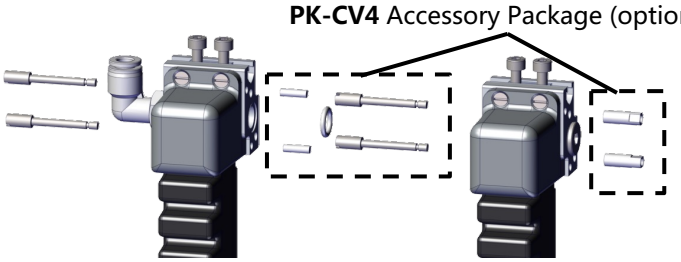


Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

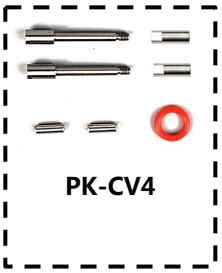
Series combination:

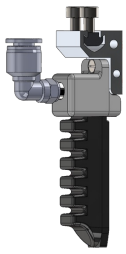
1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

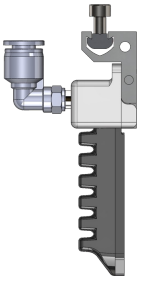
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

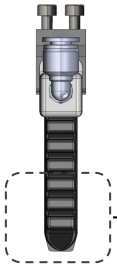


PK-CV4 Accessory Package (optional)









Finger Pattern	
LS1	Suitable for smooth dry workpieces and soft food.

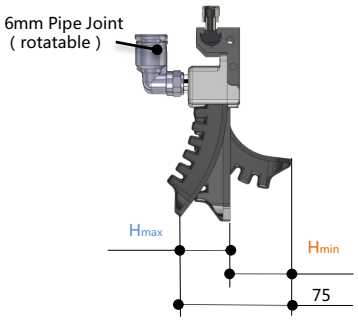


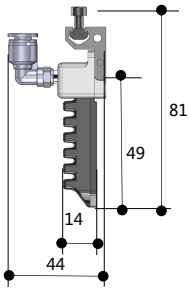
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C7V5/LF1[P]	FM-C7V5/LF1[PAS]	FM-C7V5/LF1[H]	FM-C7V5/LF1[HAS]

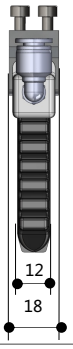
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠120	70	31	34	13	⚠ 220	78	31

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



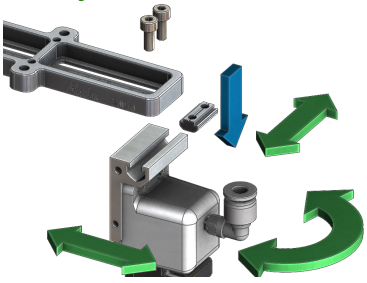




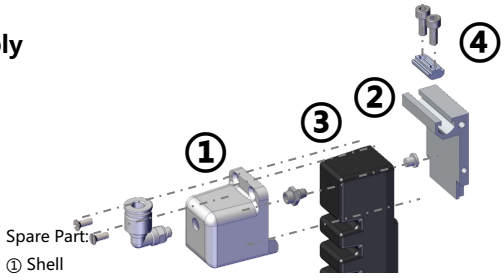
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



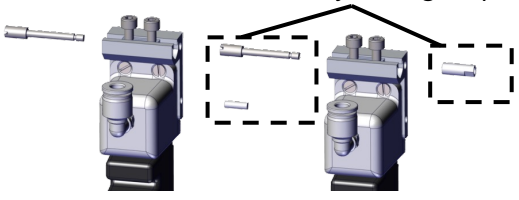
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

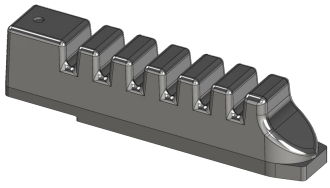
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

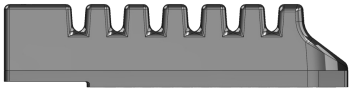
*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

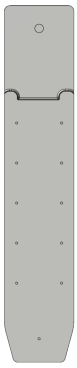
PK-CV5 Accessory Package (optional)











Finger Pattern		Features
LF1	Special Form	Suitable for smooth dry workpieces and soft food.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C7T/LF1[P]	F-C7T/LF1[PAS]	F-C7T/LF1[H]	F-C7T/LF1[HAS]

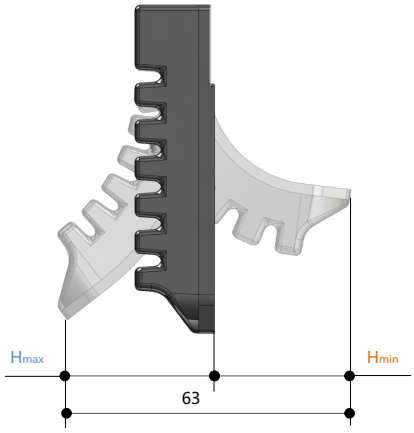
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
34	29	⚠ 120	g 70	7	34	13	⚠ 220	g 78	7

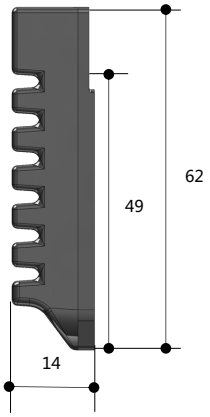
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

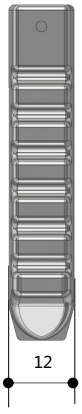
g The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters







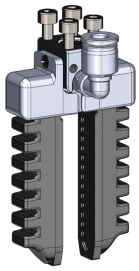
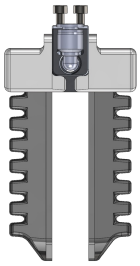
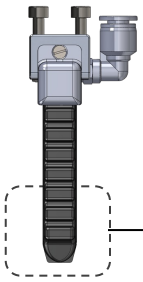
Finger Module

FM -C8V1 / LS1

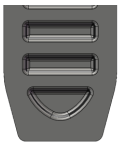
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

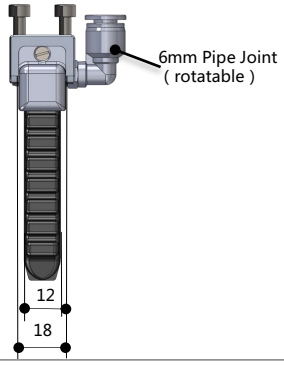


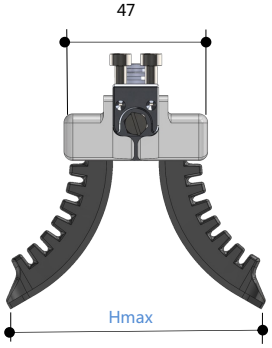

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C8V1/LS1[P]	FM-C8V1/LS1[PAS]	FM-C8V1/LS1[H]	FM-C8V1/LS1[HAS]

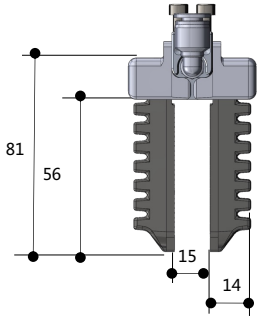
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
0	91	⚠120	108	50	0	47	⚠220	150	50

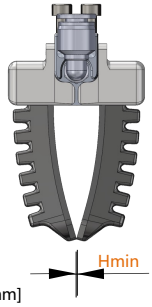
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.





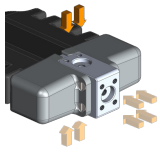


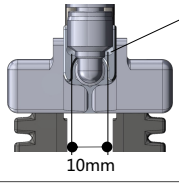


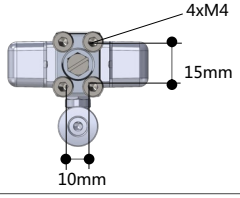
The measuring unit: [mm]

FM

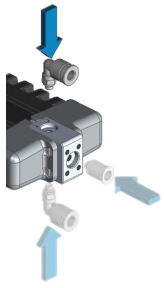
Fixation



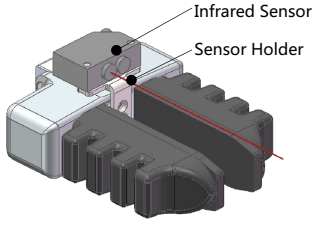




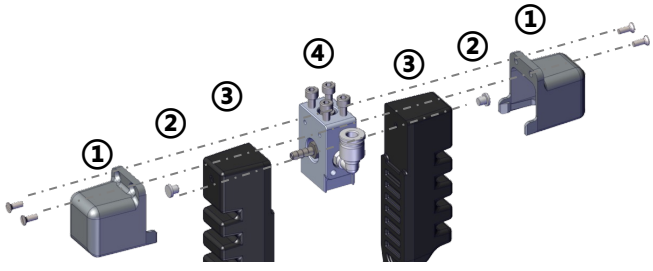
Air Intake



Sensor Installation

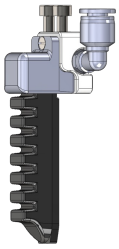
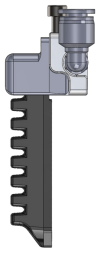
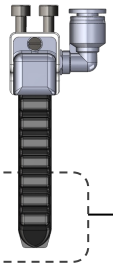


Assembly

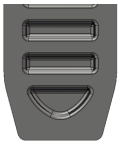


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

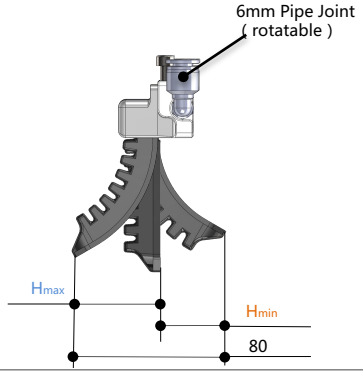


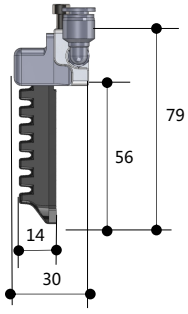

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C8V2/LS1[P]	FM-C8V2/LS1[PAS]	FM-C8V2/LS1[H]	FM-C8V2/LS1[HAS]

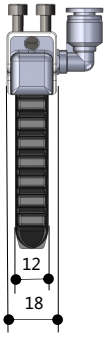
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
42	38	⚠120	54	31	42	16	⚠220	75	31

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



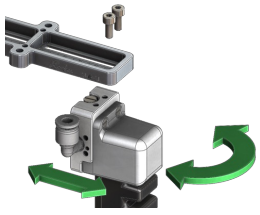




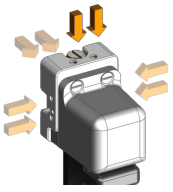
The measuring unit: [mm]

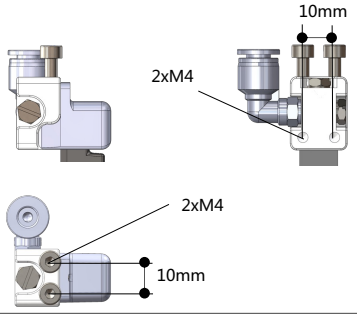
FM

Pose Adjustment

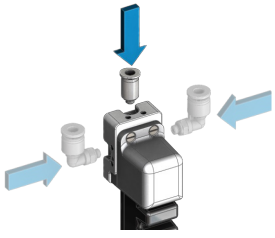


Fixation

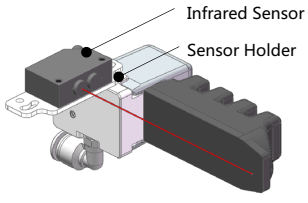




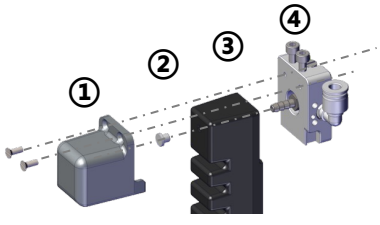
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

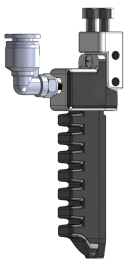
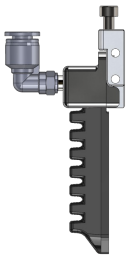
Finger Module

FM -C8V3 / LS1

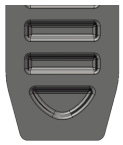
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

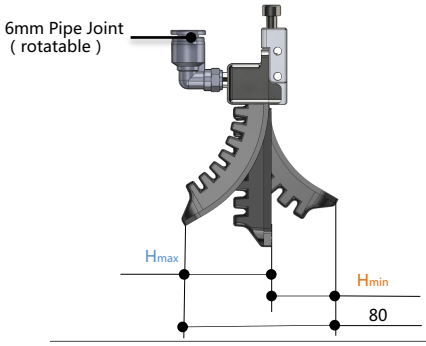


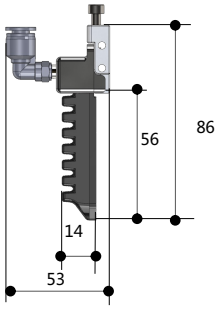

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C8V3/LS1[P]	FM-C8V3/LS1[PAS]	FM-C8V3/LS1[H]	FM-C8V3/LS1[HAS]

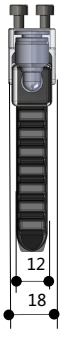
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
42	38	⚠120	54	28	42	16	⚠220	75	28

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



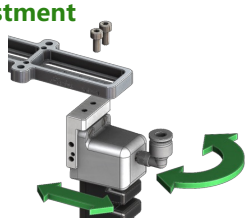




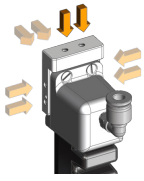
The measuring unit: [mm]

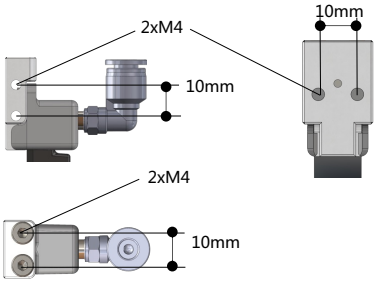
FM

Pose Adjustment



Fixation

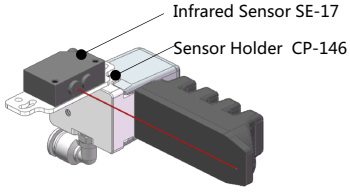




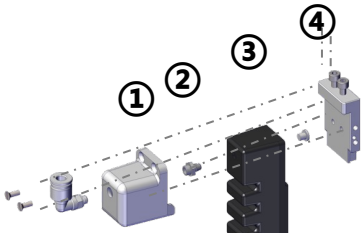
Air Intake



Sensor Installation



Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

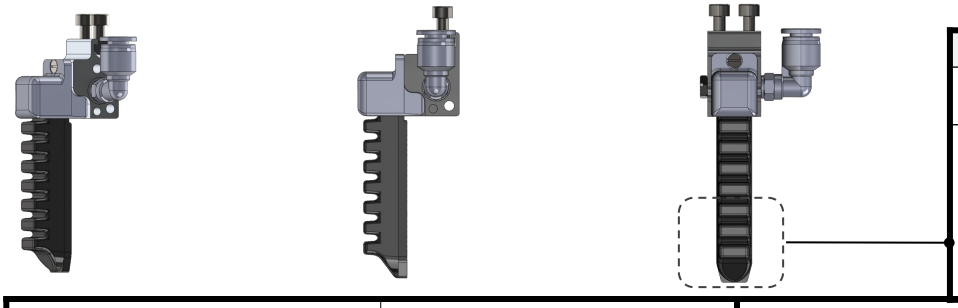
Finger Module

FM -C8V4 / LS1

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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

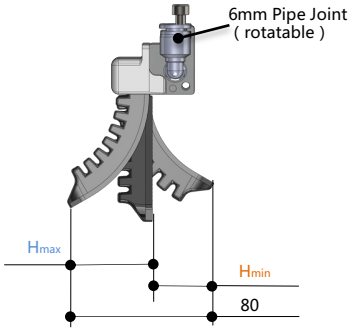


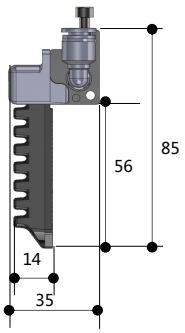
Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C8V4/LS1[P]	FM-C8V4/LS1[PAS]	FM-C8V4/LS1[H]	FM-C8V4/LS1[HAS]

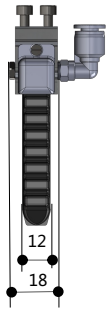
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
42	38	⚠120	54	39	42	16	⚠220	75	39

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



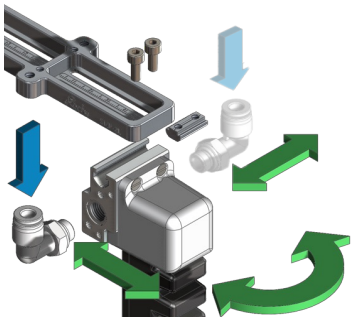




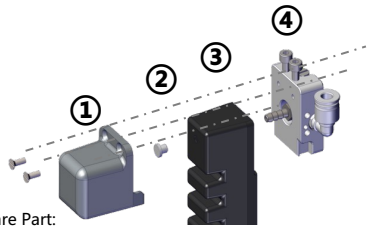
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



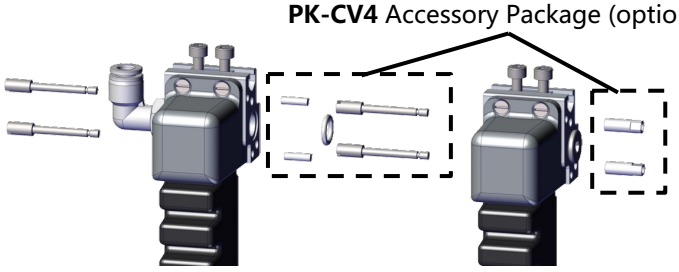
Spare Part:
① Shell
② Plug
③ Finger
④ Mounting Block

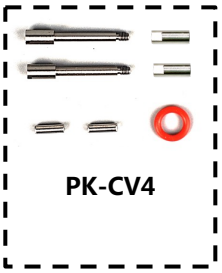
Series combination:

1. Build multiple finger modules in series to increase the grip force.
2. It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV4 Accessory Package (optional)





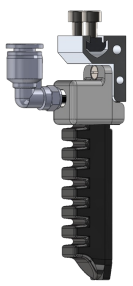
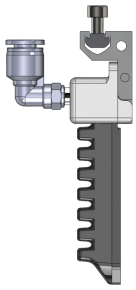
Finger Module

FM -C8V5 / LS1

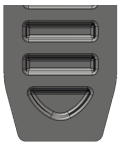
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Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

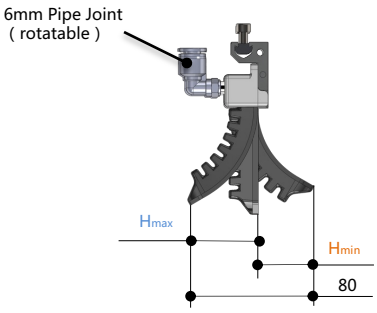


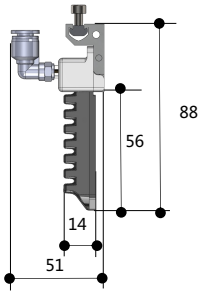

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
FM-C8V5/LS1[P]	FM-C8V5/LS1[PAS]	FM-C8V5/LS1[H]	FM-C8V5/LS1[HAS]

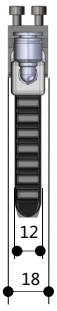
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
42	38	⚠120	54	32	42	16	⚠220	75	32

⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



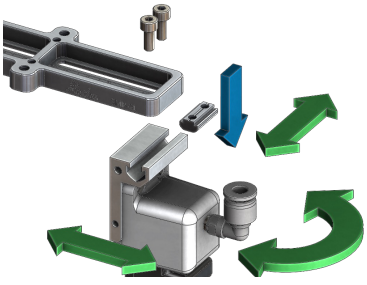




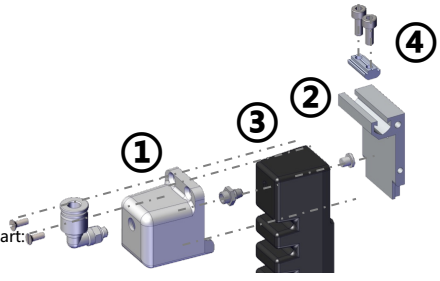
The measuring unit: [mm]

FM

Air Intake & Pose Adjustment



Assembly



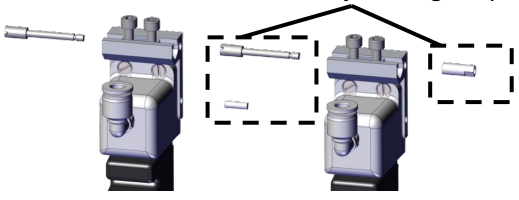
Spare Part:
① Shell
② Plug
③ Finger
④ T-Nut

Series combination:

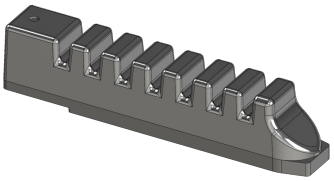
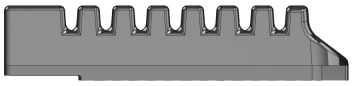
1. Build multiple finger modules in series to increase the grip force.
2. Realize seamless splicing between finger modules, with convenient assembly, good rigidity, and space-saving.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.

PK-CV5 Accessory Package (optional)






Finger Pattern		Features
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material	Dust-free Normal Material	Strong Material	Dust-free Strong Material
F-C8T/LS1[P]	F-C8T/LS1[PAS]	F-C8T/LS1[H]	F-C8T/LS1[HAS]

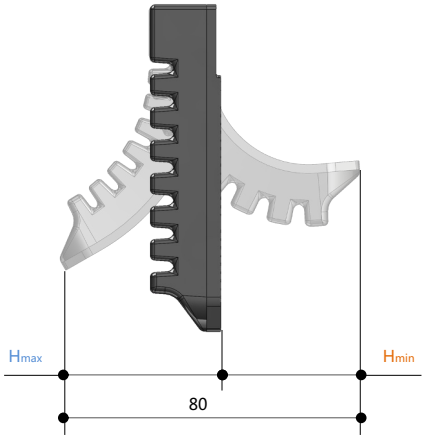
Finger color: Black					Finger color: Grey				
Positive Pressure Range (P=100kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range (P=250kPa) Hmin[mm]	Negative Pressure Range (P=-80kPa) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]
42	38	⚠120	54	8	42	16	⚠220	75	8

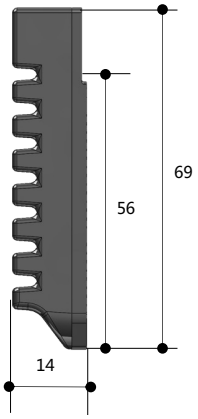
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

Dimension Parameters

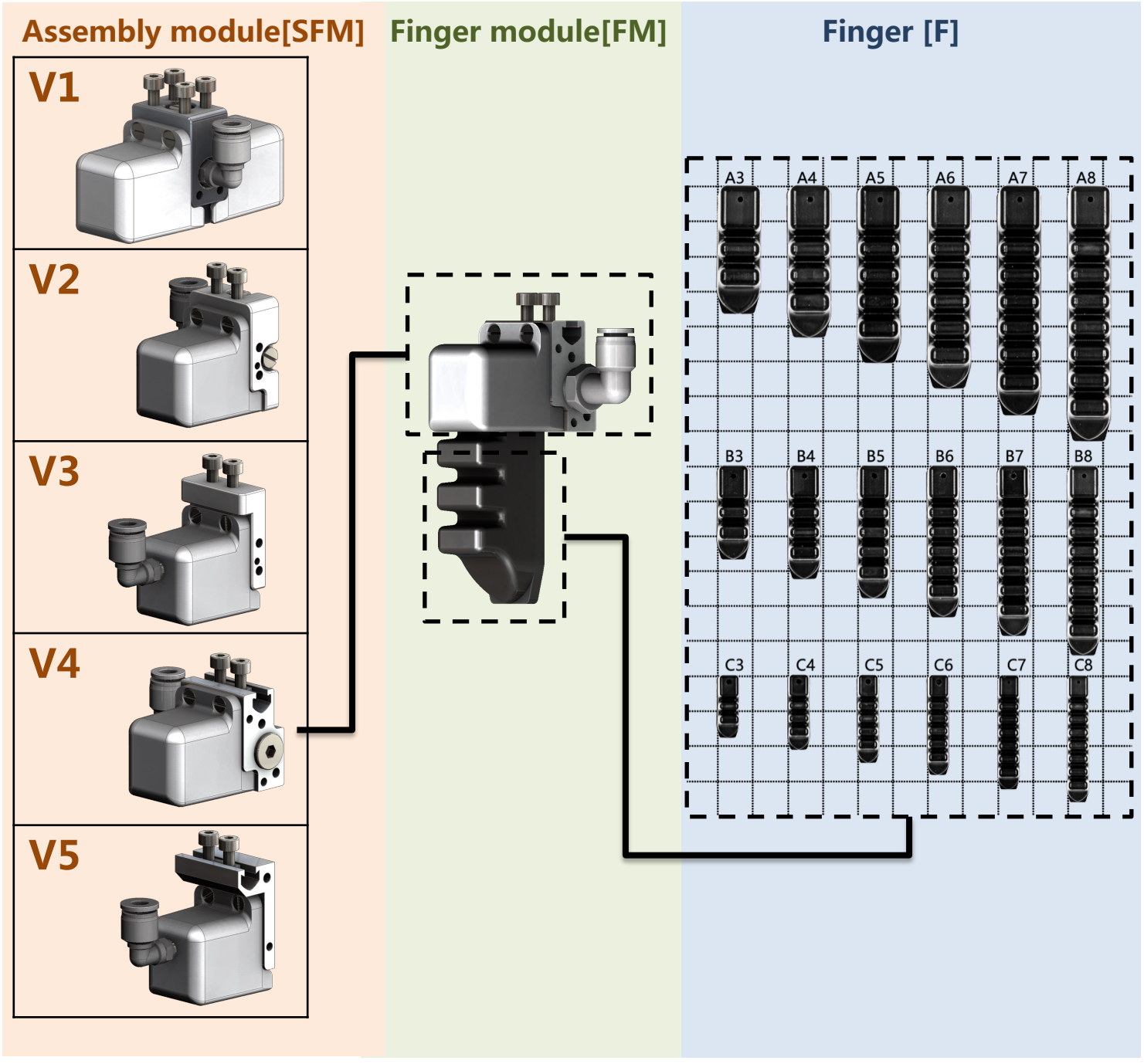






Finger Module[FM]

- The **Finger Module [FM]** is composed of the **Assembly module [SFM]** and the **Finger [F]**.
- Different **Assembly module [SFM]** has different air intake, fixation position, and combination mode.
- Select the appropriate **Finger[F]** according to the weight and size of the gripped workpiece. See page53 for the calculation method of gripping force.
- The safe pressure of the **Finger Module [FM]** is 120-300kpa. Please refer to the product label or packaging instructions.

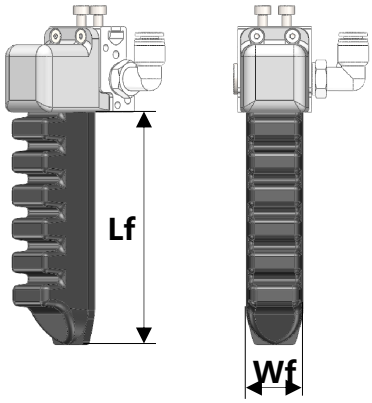


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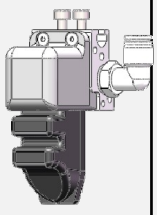
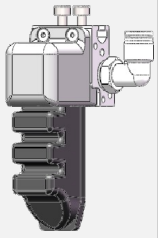
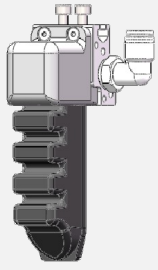
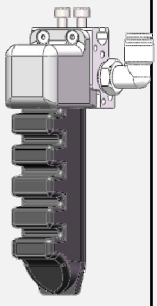
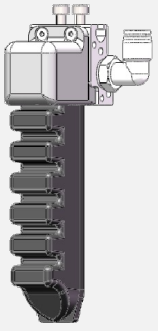
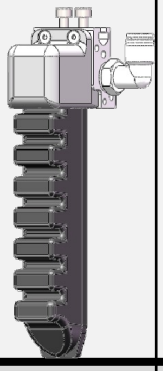
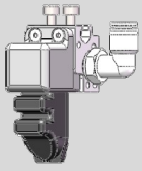
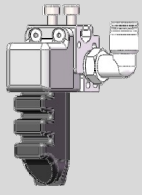
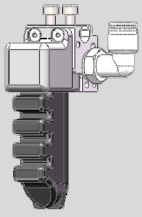
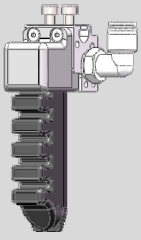
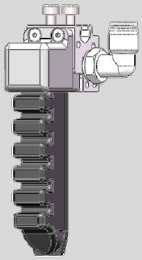
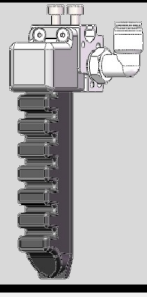
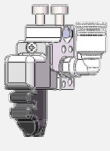
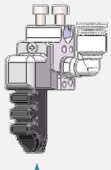
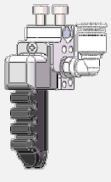
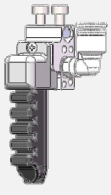
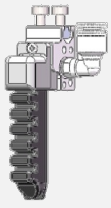
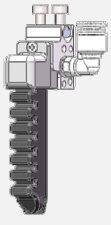
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Size of Finger Module [FM]



According to the width and length of Fingers[F], they are divided into the following 18 sizes*.
A3 , A4 , A5 , A6 , A7 , A8;
B3 , B4 , B5 , B6 , B7 , B8;
C3 , C4 , C5 , C6 , C7 , C8.
Select different finger-widths [Wf] according to the weight of the workpiece. The larger the [Wf], the greater the gripping force
According to the workpiece size, select different finger-lengths [Lf]. Long fingers have a better fitting of the big workpiece. Short fingers have higher accuracy.
* : For customized finger, please contact our customer service.

	3 Segments	4 Segments	5 Segments	6 Segments	7 Segments	8 Segments	Wf [mm]
Finger Size	A3	A4	A5	A6	A7	A8	
Lf[mm]	41	55	69	83	97	111	
A		 ★	 ★				24
Finger SIze	B3	B4	B5	B6	B7	B8	
Lf[mm]	31	41.5	52	62.5	73	83.5	
B			 ★				18
Finger Size	C3	C4	C5	C6	C7	C8	
Lf[mm]	21	28	35	42	49	56	
C		 ★					12

★ : **Common Finger Size**

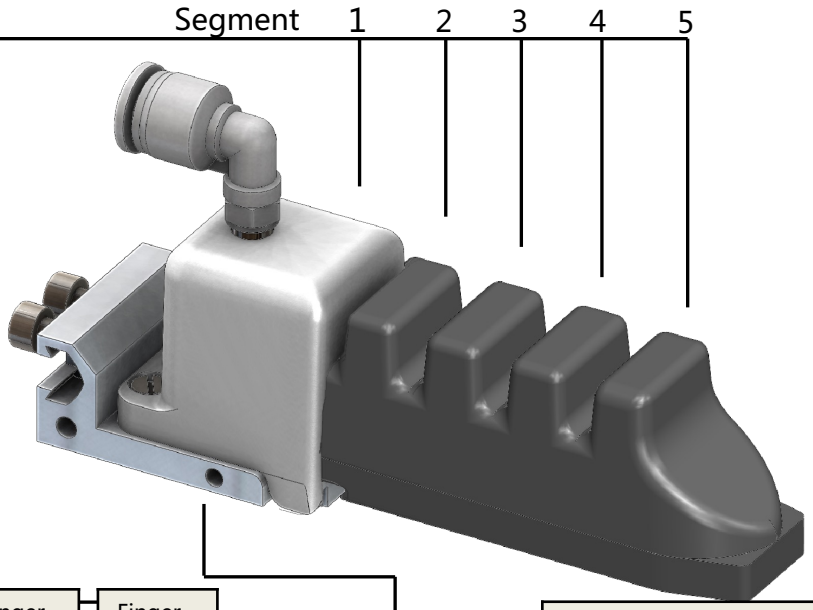
FM

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Encoding Method



	Finger-width	Finger-length	Assembly modules		Fingertip & Bottom print	Finger Material
FM -	A	5	V5	/	LS1	[H]

A	Width A
B	Width B
C	Width C
AD	Width AD

3	3 Segments
4	4 Segments
...	...
8	8 Segments

V1	Module V1
V2	Module V2
V3	Module V3
V4	Module V4
V5	Module V5

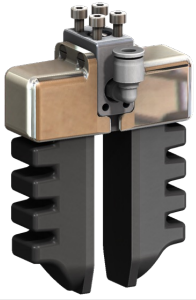
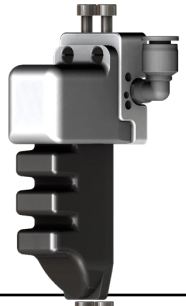
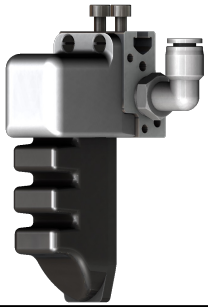
P	Normal Material
H	Strong Material
PAS	Dust-free Normal Material
HAS	Dust-free Strong Material

Fingertip & Bottom print		Features	Pictures		
Standard	**LS1**	**Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.**			
Special*	**LF1**	**Suitable for smooth dry workpieces and soft food.**			
	FS3	**Suitable for soft fabric products.**			
	LS8	**Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.**			

* Please consult our customer service for more Special **Fingertips and Bottom prints**.

Assembly Modules

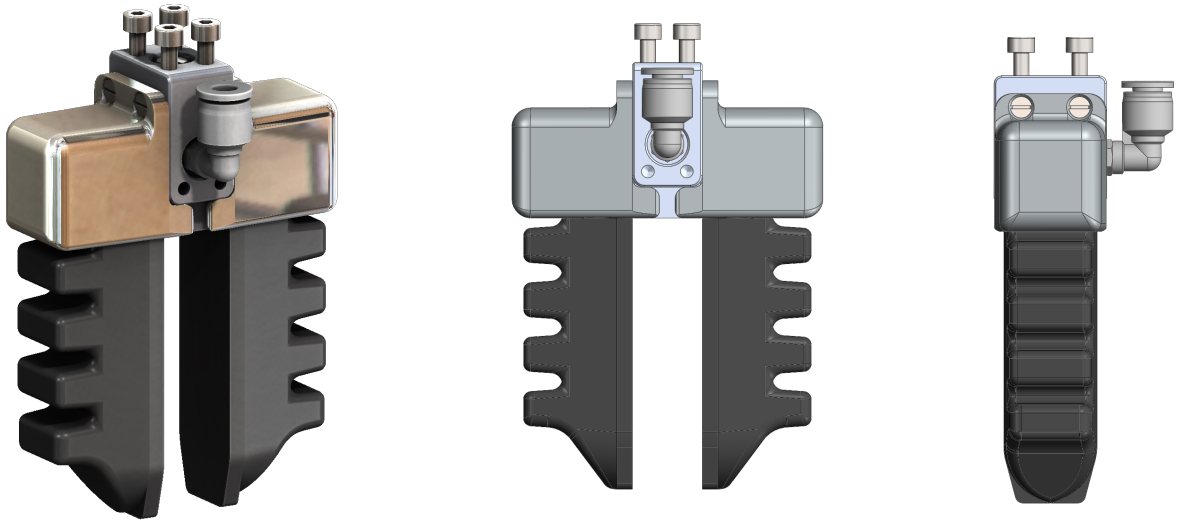
There are five Assembly Modules **V1, V2, V3, V4, and V5** with different air intakes, and fixation positions.

Assembly Modules	Pictures	Structural Features
V1 Compact two-finger module		• **Features**: Double finger module combination, compact structure, and small space. Finger spacing and installation angle are unadjustable. It is suitable for gripping small, light, and thin workpieces. • **Fixation**: Can be fixed on three sides (optional). • **Air intake**: Intake joints are installed on three sides (optional). • Additional Sensor module (optional).
V2 Single-finger Module		• **Features**: Single finger module combination, compatible with [SMP] sliding mounting plate, adjustable spacing and angle between fingers. • **Fixation**: Can be fixed on four sides (optional). • **Air intake**: Intake joints can be installed on three sides (optional). • Additional Sensor module (optional).
V3 Single-finger Module		• **Features**: Single finger module combination, compatible with [SMP] Slide Mounting Plate, adjustable spacing, and angle between fingers. • **Fixation**: Can be fixed on three sides (optional). • **Air intake**: The intake joint can only be installed on one side (the back of the finger). • Additional Sensor module (optional).
V4 Series-finger Module		• **Features**: Series-finger Module, the gripping force is large, which can be used in series (using a parts kit [PK]).Only one air intake when more finger modules build in series. More fingers in series are good at gripping large and heavy objects. • **Fixation**: It is fixed with T-nut. When installed with a sliding mounting plate, it can adjust the front and rear, left and right, and rotation respectively. • **Air intake**: Air intake on left or right sides (optional).
V5 Series-finger Module		• **Features:** Series-finger Module, can be used in series. the minimum finger spacing of the installation module is only 10mm, which is suitable for clamping small and light workpieces. Compared with V4, each finger needs an independent air intake. • **Fixation:** It is fixed with T-nut. When installed with a sliding mounting plate, it can adjust the front and rear, left and right, and rotation respectively. • **Air intake:** Single air intake on finger backside.

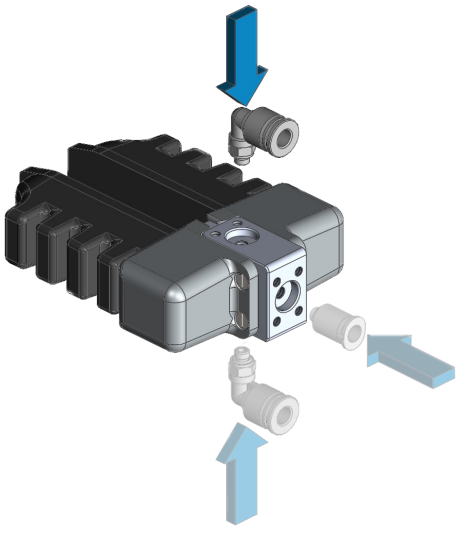
FM

V1 Assembly module: Compact two-finger module

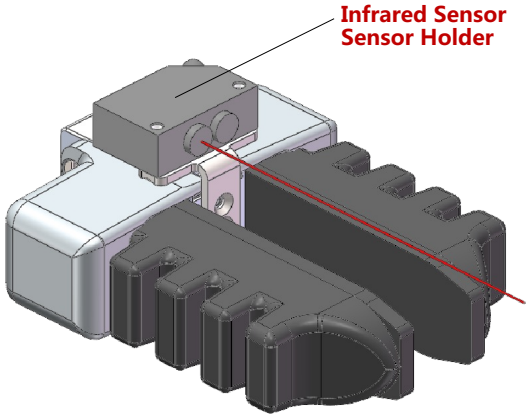
- **Features**: Double finger module combination, compact structure, and small space. Finger spacing and installation angle are unadjustable. It is suitable for gripping small, light, and thin workpieces.
- **Fixation**: Can be fixed on three sides (optional).
- **Air intake**: Intake joints are installed on three sides (optional).
- Additional Sensor module (optional).



Air Intake

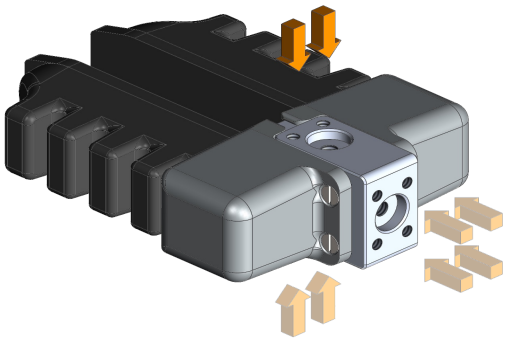


Sensor Installation

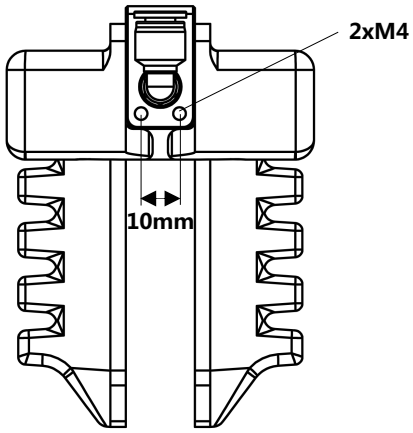


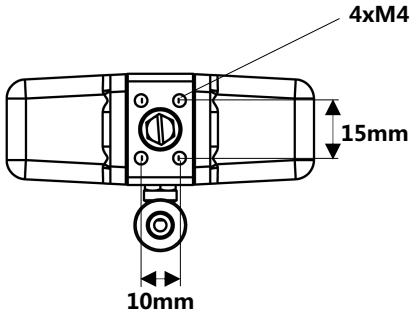
V1Assembly module: Compact two-finger module

Fixation



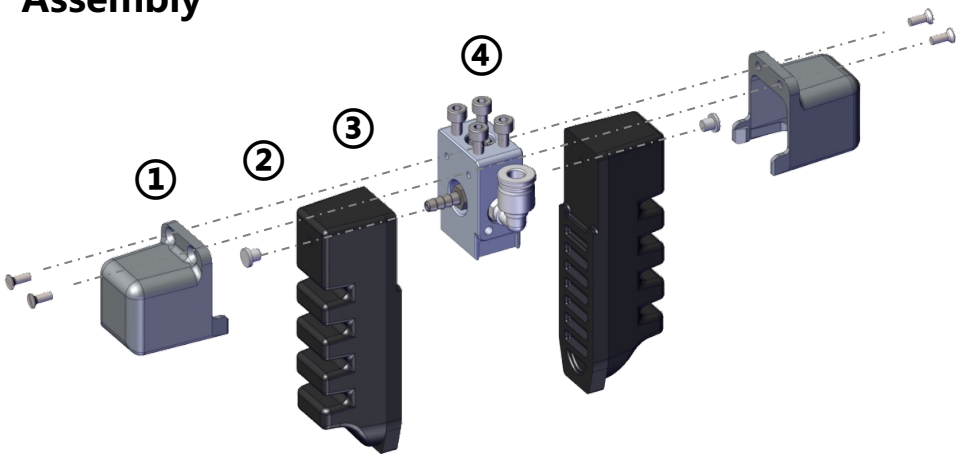
Dimensions





FM

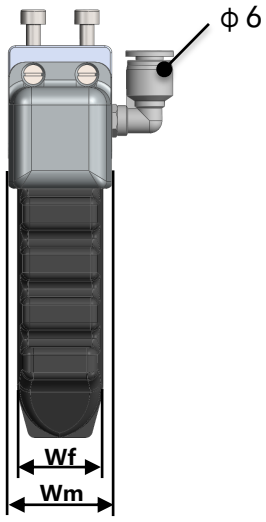
Assembly

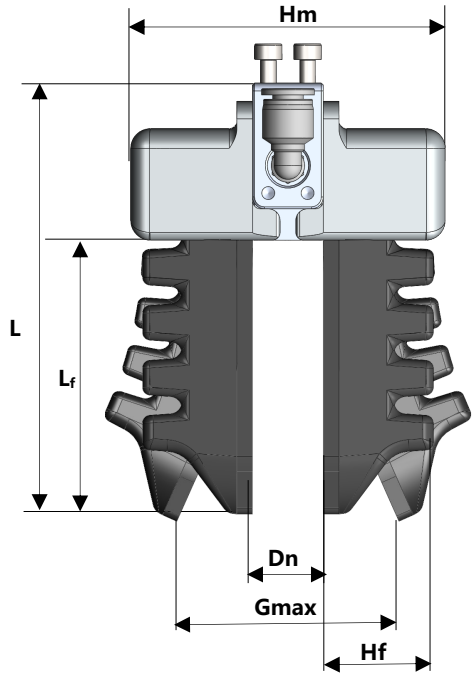


Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

V1 Assembly module: Compact two-finger module





FM

Finger Size	Finger Module	Dn [mm]	Gmax * [mm] Finger Material [P]/[PAS]	Gmax * [mm] Finger Material [H]/[HAS]	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa] Finger Material [P]/[PAS]	Safe Pressure [kPa] Finger Material [H]/[HAS]
A3	FM-A3V1	18	34	32	80	28	81	41	29	24	153	120	300
A4	FM-A4V1	18	38	42	80	28	95	55	29	24	167	120	300
A5	FM-A5V1	18	56	50	80	28	109	69	29	24	181	120	300
A6	FM-A6V1	18	84	62	80	28	123	83	29	24	195	120	300
A7	FM-A7V1	18	96	72	80	28	137	97	29	24	210	120	300
A8	FM-A8V1	18	108	82	80	28	151	111	29	24	224	120	300
B3	FM-B3V1	18	38	30	65	21	64	31	23	18	77	120	260
B4	FM-B4V1	18	44	38	65	21	74.5	41.5	23	18	85	120	260
B5	FM-B5V1	18	50	46	65	21	85	52	23	18	94	120	260
B6	FM-B6V1	18	64	52	65	21	95.5	62.5	23	18	102	120	260
B7	FM-B7V1	18	78	60	65	21	106	73	23	18	110	120	260
B8	FM-B8V1	18	92	68	65	21	116.5	83.5	23	18	118	120	260
C3	FM-C3V1	15	25	17	47	14	46	21	21.5	12	42	120	220
C4	FM-C4V1	15	33	21	47	14	53	28	21.5	12	44	120	220
C5	FM-C5V1	15	39	31	47	14	60	35	21.5	12	45	120	220
C6	FM-C6V1	15	55	35	47	14	67	42	21.5	12	47	120	220
C7	FM-C7V1	15	73	41	47	14	74	49	21.5	12	48	120	220
C8	FM-C8V1	15	91	47	47	14	81	56	21.5	12	50	120	220

*: G_{max} measured when real working pressure P= -80kPa (vacuum)

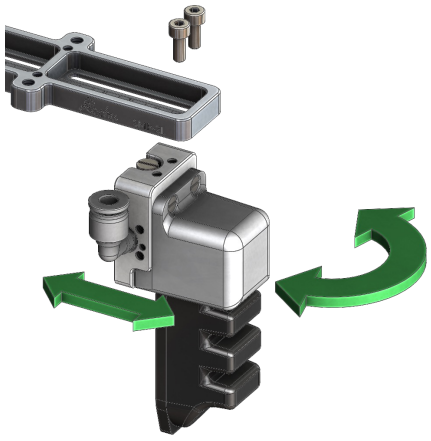
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V2 Assembly module: Single-finger Module

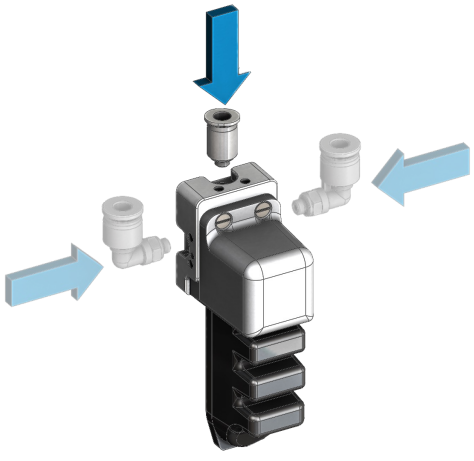
- **Features**: Single finger module combination, compatible with [SMP] sliding mounting plate, adjustable spacing and angle between fingers.
- **Fixation**: Can be fixed on four sides (optional).
- **Air intake**: Intake joints can be installed on three sides (optional).
- Additional Sensor module (optional).



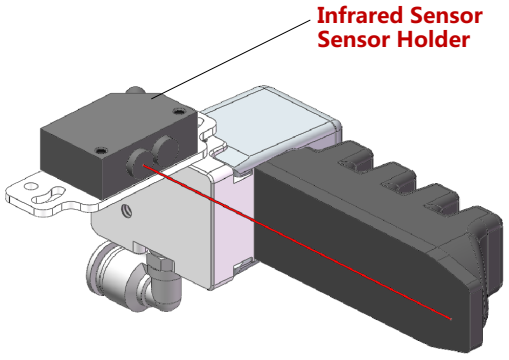
Pose Adjustment



Air Intake

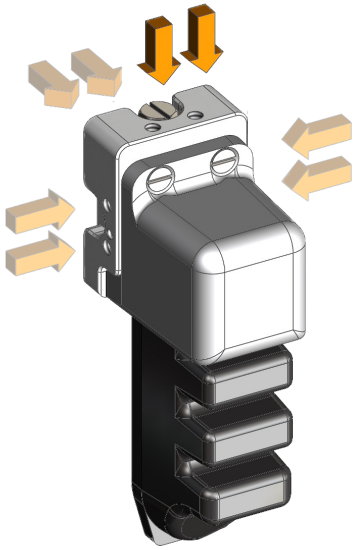


Sensor Installation

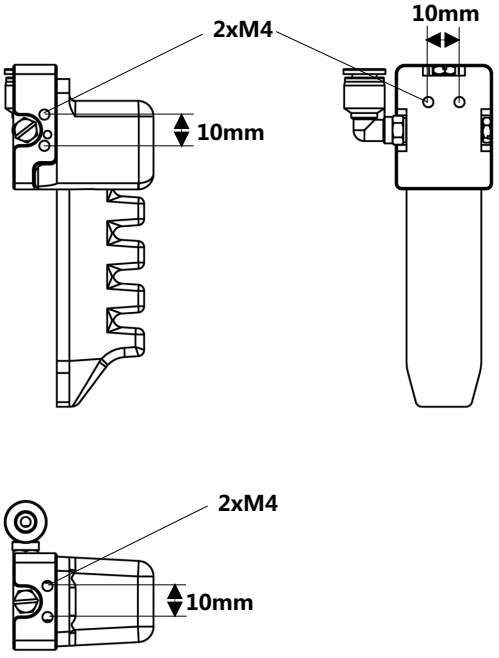


V2 Assembly module: Single-finger Module

Fixation

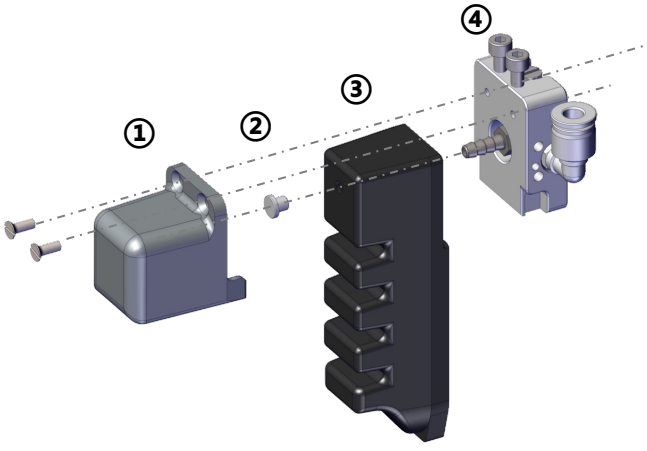


Dimensions



FM

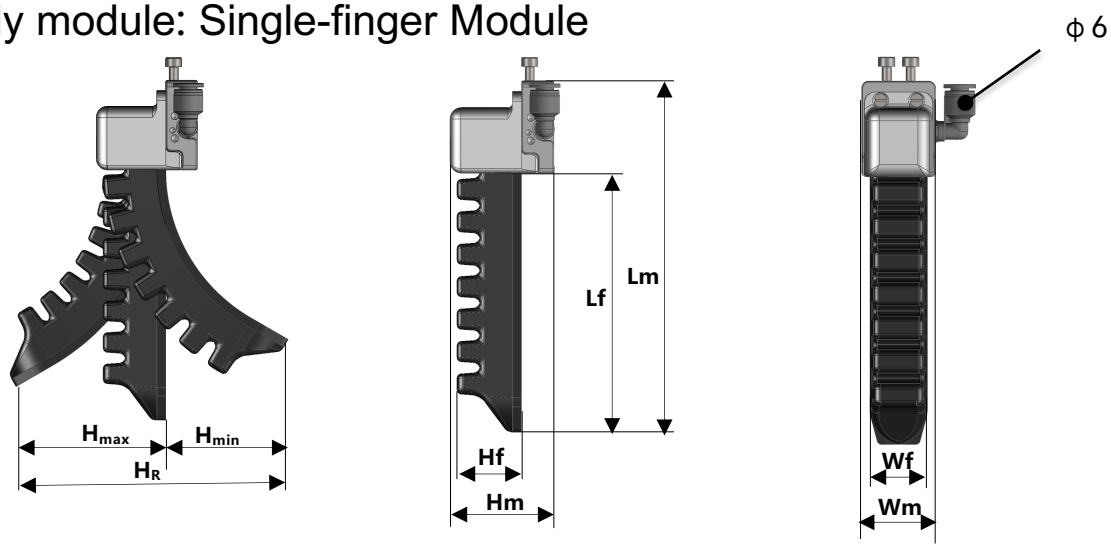
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

V2 Assembly module: Single-finger Module



Finger Size	Finger Module	HR [mm]	Negative Pressure Range* Hmax [mm]		Positive Pressure Range ** Hmin [mm]	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
			Finger Material										Finger Material	
			[P]/[PAS]	[H]/[HAS]									[P]/[PAS]	[H]/[HAS]
A3	FM-A3V2	16.5	8	7	8.5	45	28	82	41	31	24	92	120	300
A4	FM-A4V2	27	10	12	17	45	28	96	55	31	24	99	120	300
A5	FM-A5V2	43.5	19	16	24.5	45	28	110	69	31	24	106	120	300
A6	FM-A6V2	72	33	22	39	45	28	124	83	31	24	113	120	300
A7	FM-A7V2	90	39	27	51	45	28	138	97	31	24	120	120	300
A8	FM-A8V2	109	45	32	64	45	28	152	111	31	24	127	120	300
B3	FM-B3V2	19	10	6	9	37.5	21	65	31	25	18	52	120	260
B4	FM-B4V2	29	13	10	16	37.5	21	76	41.5	25	18	56	120	260
B5	FM-B5V2	40	16	14	24	37.5	21	86	52	25	18	60	120	260
B6	FM-B6V2	53	23	17	30	37.5	21	97	62.5	25	18	64	120	260
B7	FM-B7V2	75	30	21	45	37.5	21	107	73	25	18	68	120	260
B8	FM-B8V2	98	37	25	61	37.5	21	118	83.5	25	18	72	120	260
C3	FM-C3V2	10.5	5	1	5.5	30	14	44	21	18	12	27	120	220
C4	FM-C4V2	20	9	3	11	30	14	51	28	18	12	27	120	220
C5	FM-C5V2	27	12	8	15	30	14	58	35	18	12	28	120	220
C6	FM-C6V2	42	20	10	22	30	14	65	42	18	12	29	120	220
C7	FM-C7V2	63	29	13	34	30	14	72	49	18	12	30	120	220
C8	FM-C8V2	80	38	16	42	30	14	79	56	18	12	31	120	220

* : Negative Pressure Range H_{max} Working pressure is -80kPa。

** : Positive Pressure Range H_{min} : For Normal Material Finger[P]/[PAS] , working pressure is 100kPa. For Strong Material Finger[H]/[HAS] , working pressure is 250kPa.(缩进)

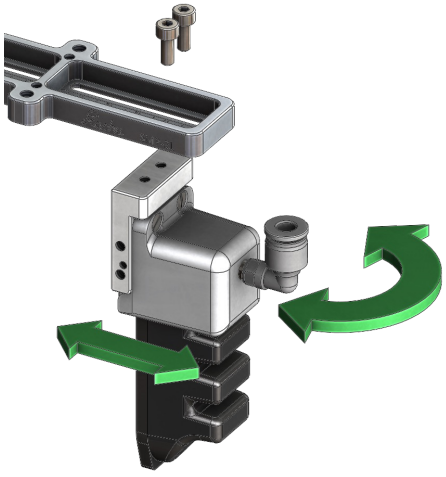
FM

V3 Assembly module: Single-finger Module

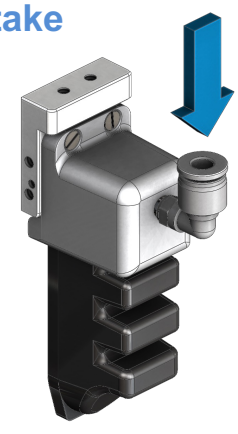
- **Features**: Single finger module combination, compatible with [SMP] Slide Mounting Plate, adjustable spacing, and angle between fingers.
- **Fixation**: Can be fixed on three sides (optional).
- **Air intake**: The intake joint can only be installed on one side (the back of the finger).
- Additional Sensor module (optional).



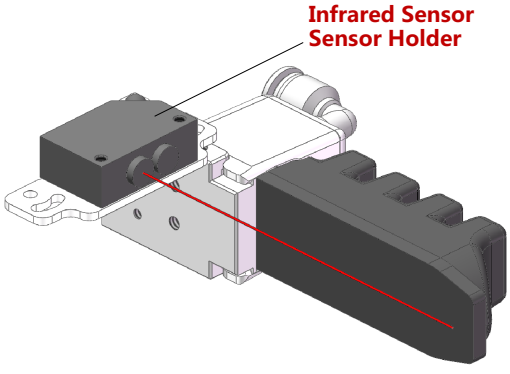
Pose Adjustment



Air intake

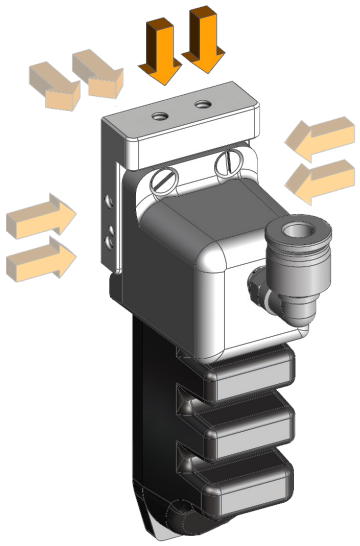


Sensor Installation

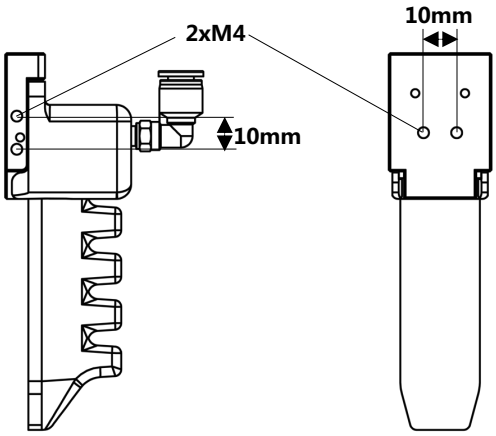


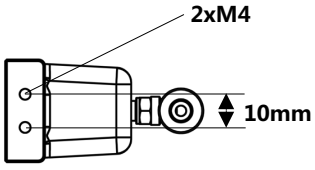
V3 Assembly module: Single-finger Module

Fixation



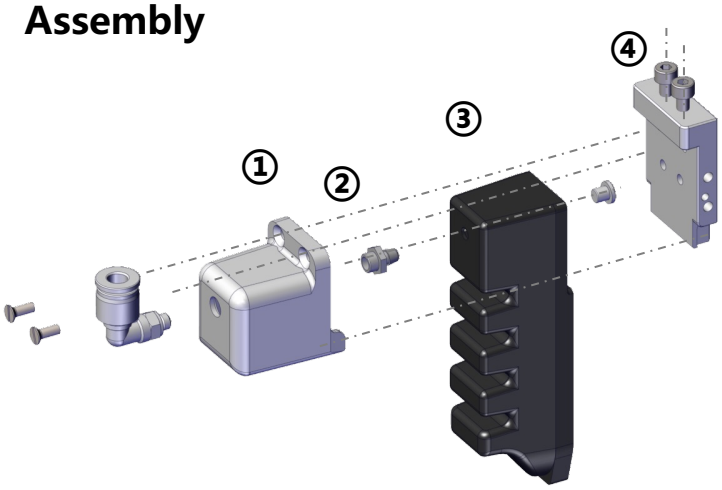
Dimensions





FM

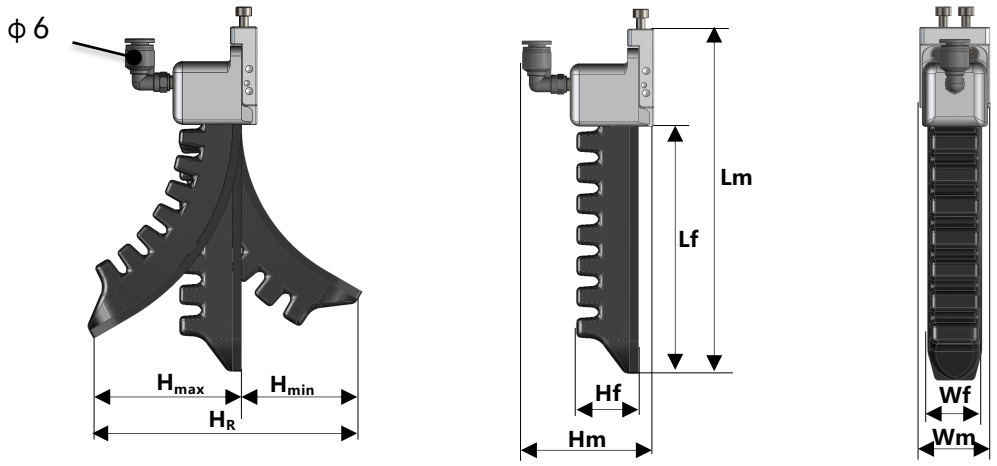
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

V3 Assembly module: Single-finger Module



Finger Size	Finger Module	HR [mm]	Negative Pressure Range * Hmax [mm]		Positive Pressure Range ** Hmin [mm]	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
			Finger Material										Finger Material	
			[P]/[PAS]	[H]/[HAS]									[P]/[PAS]	[H]/[HAS]
A3	FM-A3V3	16.5	8	7	8.5	60	28	85.5	41	31	24	77	120	300
A4	FM-A4V3	27	10	12	17	60	28	99.5	55	31	24	84	120	300
A5	FM-A5V3	43.5	19	16	24.5	60	28	113.5	69	31	24	91	120	300
A6	FM-A6V3	72	33	22	39	60	28	127.5	83	31	24	98	120	300
A7	FM-A7V3	90	39	27	51	60	28	141.5	97	31	24	105	120	300
A8	FM-A8V3	109	45	32	64	60	28	155.5	111	31	24	112	120	300
B3	FM-B3V3	19	10	6	9	53	21	68.5	31	25	18	43	120	260
B4	FM-B4V3	29	13	10	16	53	21	79.5	41.5	25	18	47	120	260
B5	FM-B5V3	40	16	14	24	53	21	89.5	52	25	18	51	120	260
B6	FM-B6V3	53	23	17	30	53	21	100.5	62.5	25	18	55	120	260
B7	FM-B7V3	75	30	21	45	53	21	110.5	73	25	18	59	120	260
B8	FM-B8V3	98	37	25	61	53	21	121.5	83.5	25	18	63	120	260
C3	FM-C3V3	10.5	5	1	5.5	46	14	51	21	18	12	24	120	220
C4	FM-C4V3	20	9	3	11	46	14	58	28	18	12	25	120	220
C5	FM-C5V3	27	12	8	15	46	14	65	35	18	12	26	120	220
C6	FM-C6V3	42	20	10	22	46	14	72	42	18	12	26	120	220
C7	FM-C7V3	63	29	13	34	46	14	79	49	18	12	27	120	220
C8	FM-C8V3	80	38	16	42	46	14	86	56	18	12	28	120	220

FM

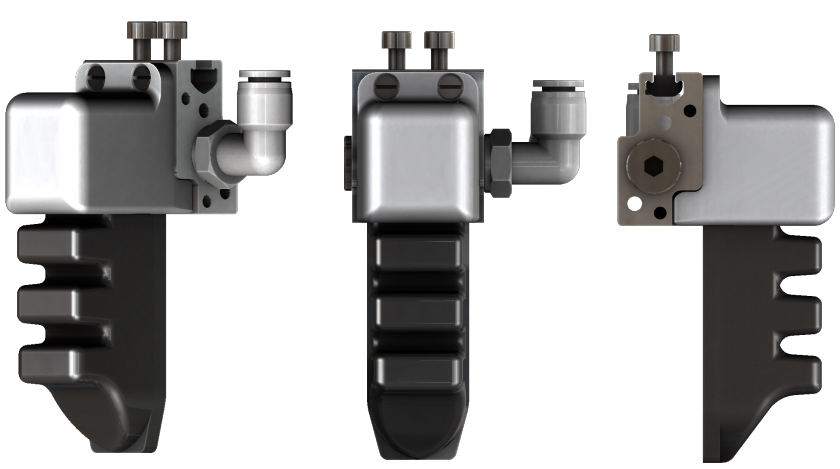
* : Negative Pressure Range H_{max}: Working pressure is -80kPa.

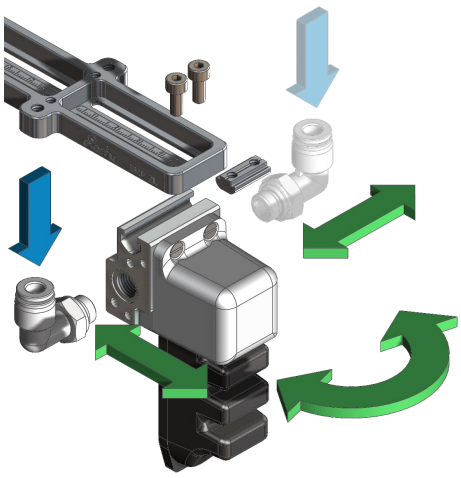
** : Positive Pressure Range H_{min} : For Normal Material Finger[P]/[PAS] , working pressure is 100kPa. For Strong Material Finger[H]/[HAS] , working pressure is 250kPa.

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V4 Series-finger Module: Series air circuit, high load.

- **Features**: Series-finger Module, the gripping force is large, which can be used in series (using a parts kit [PK]).Only one air intake when more finger modules build in series. More fingers in series are good at gripping large and heavy objects.
- **Fixation**: It is fixed with T-nut. When installed with a sliding mounting plate, it can adjust the front and rear, left and right, and rotation respectively.
- **Air intake**: Air intake on left or right sides (optional).

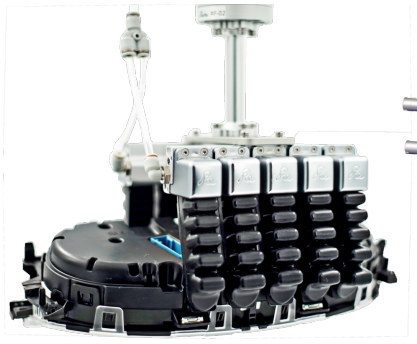




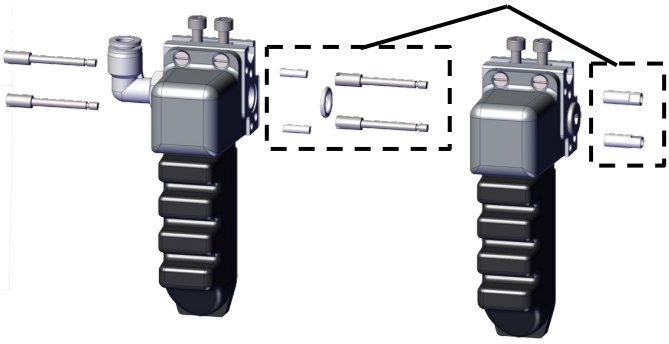
Series combination:

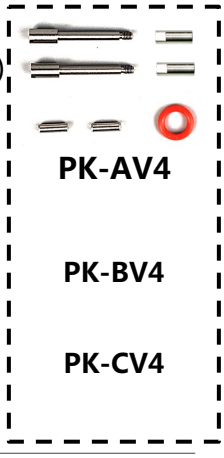
- Multiple finger modules are combined in series to increase the gripping force.
- It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. The parts kit is not included in the finger module and needs to be ordered separately.

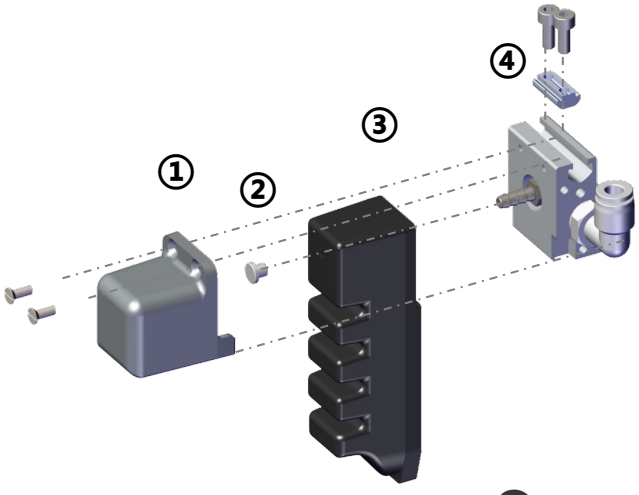


PK-AV4 Accessory Package (optional)





Assembly



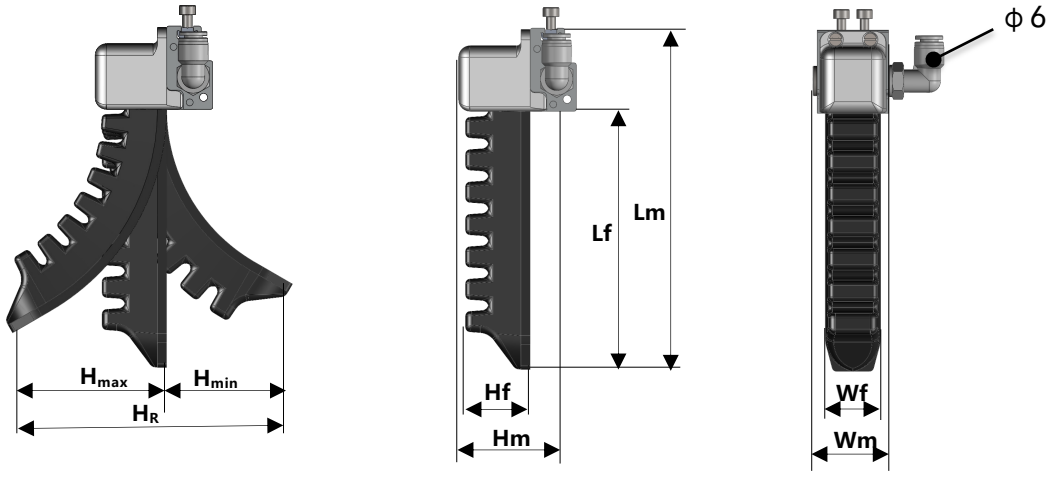
Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

FM

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V4 Assembly Module: Series-finger Module



FM

Finger Size	Finger Module	HR [mm]	Negative Pressure Range * Hmax [mm] Finger Material		Positive Pressure Range ** Hmin [mm]	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa] Finger Material	
			[P]/[PAS]	[H]/[HAS]									[P]/[PAS]	[H]/[HAS]
A3	FM-A3V4	16.5	8	7	8.5	51	28	78	41	31	24	97	120	300
A4	FM-A4V4	27	10	12	17	51	28	92	55	31	24	104	120	300
A5	FM-A5V4	43.5	19	16	24.5	51	28	106	69	31	24	111	120	300
A6	FM-A6V4	72	33	22	39	51	28	120	83	31	24	119	120	300
A7	FM-A7V4	90	39	27	51	51	28	134	97	31	24	126	120	300
A8	FM-A8V4	109	45	32	64	51	28	148	111	31	24	133	120	300
B3	FM-B3V4	19	10	6	9	45	21	61	31	25	18	61	120	260
B4	FM-B4V4	29	13	10	16	45	21	72	41.5	25	18	65	120	260
B5	FM-B5V4	40	16	14	24	45	21	82	52	25	18	69	120	260
B6	FM-B6V4	53	23	17	30	45	21	93	62.5	25	18	73	120	260
B7	FM-B7V4	75	30	21	45	45	21	103	73	25	18	77	120	260
B8	FM-B8V4	98	37	25	61	45	21	114	83.5	25	18	81	120	260
C3	FM-C3V4	10.5	5	1	5.5	35	14	50	21	18	12	35	120	220
C4	FM-C4V4	20	9	3	11	35	14	57	28	18	12	36	120	220
C5	FM-C5V4	27	12	8	15	35	14	64	35	18	12	37	120	220
C6	FM-C6V4	42	20	10	22	35	14	71	42	18	12	38	120	220
C7	FM-C7V4	63	29	13	34	35	14	78	49	18	12	38	120	220
C8	FM-C8V4	80	38	16	42	35	14	85	56	18	12	39	120	220

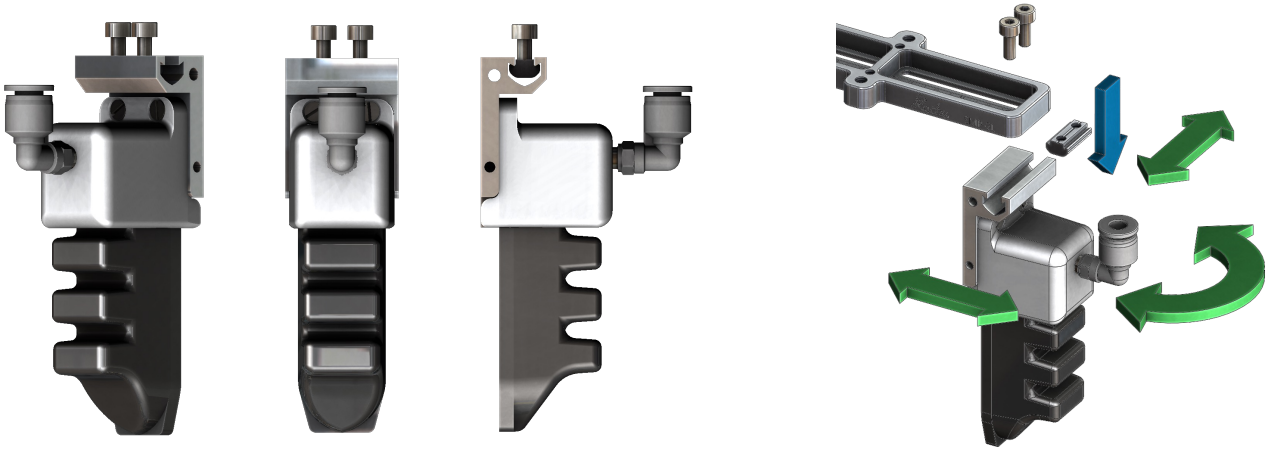
* : Negative Pressure Range H_{max} : Working pressure is -80kPa。

** : Positive Pressure Range H_{min} : For Normal Material Finger[P]/[PAS] , working pressure is 100kPa. For Strong Material Finger[H]/[HAS], working pressure is 250kPa.

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V5 Assembly Module: Series-finger Module

- **Features:** Series-finger Module, can be used in series. the minimum finger spacing of the installation module is only 10mm, which is suitable for clamping small and light workpieces. Compared with V4, each finger needs an independent air intake.
- **Fixation:** It is fixed with T-nut. When installed with a sliding mounting plate, it can adjust the front and rear, left and right, and rotation respectively.
- **Air intake:** Single air intake on finger backside.



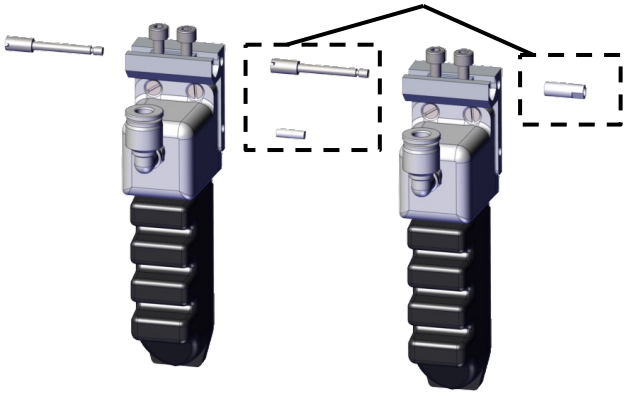
Series combination:

- Multiple fingers are combined in series to work at the same time to increase the gripping force
- It can realize the seamless splicing between fingers and share the air inlet to save space.

*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. The parts kit is not included in the finger module and needs to be ordered separately.



PK-AV5 Accessory Package (optional)

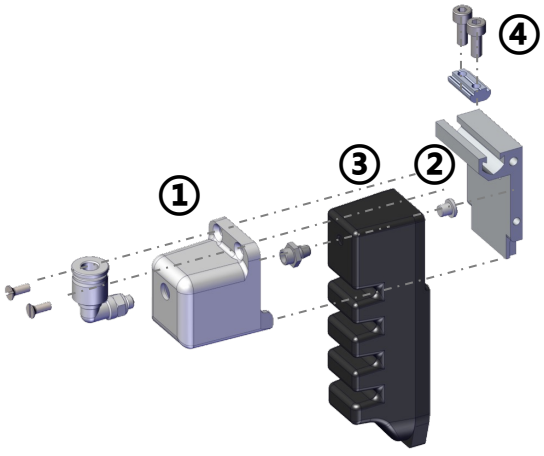


PK-AV5:
Finger Module
A Serie V5
Tandem Kit

PK-BV5:
Finger Module
B Serie V5
Tandem Kit

PK-CV5:
Finger Module
C Serie V5
Tandem Kit

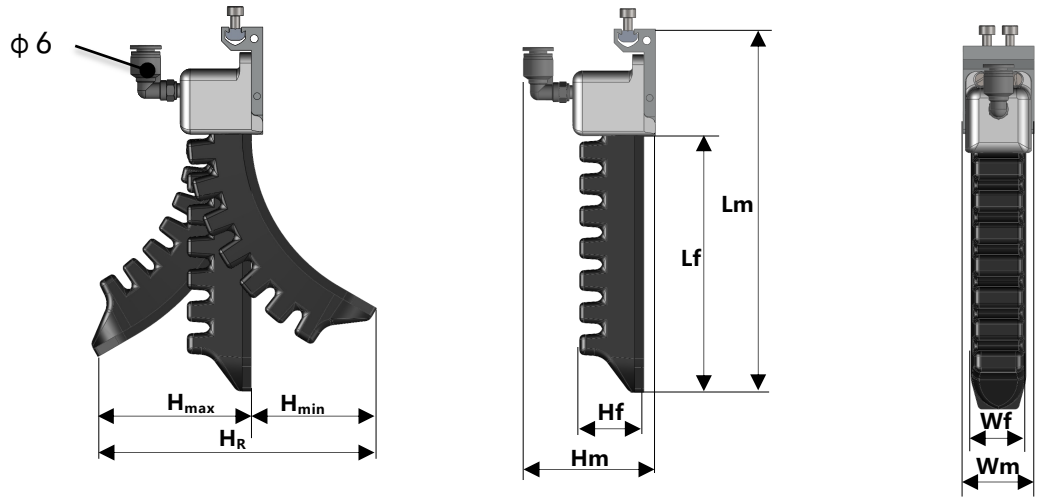
Assembly



Spare Part:

① Shell
② Plug
③ Finger
④ Mounting Block

V5 Assembly Module: Series-finger Module



FM

Finger Size	Finger Module	HR [mm]	Negative Pressure Range * Hmax [mm]		Positive Pressure Range ** Hmin [mm]	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
			Finger Material										Finger Material	
			[P]/[PAS]	[H]/[HAS]									[P]/[PAS]	[H]/[HAS]
A3	FM-A3V5	16.5	8	7	8.5	58	28	88	41	31	24	76	120	300
A4	FM-A4V5	27	10	12	17	58	28	102	55	31	24	83	120	300
A5	FM-A5V5	43.5	19	16	24.5	58	28	116	69	31	24	90	120	300
A6	FM-A6V5	72	33	22	39	58	28	130	83	31	24	97	120	300
A7	FM-A7V5	90	39	27	51	58	28	144	97	31	24	104	120	300
A8	FM-A8V5	109	45	32	64	58	28	158	111	31	24	111	120	300
B3	FM-B3V5	19	10	6	9	51	21	71	31	25	18	44	120	260
B4	FM-B4V5	29	13	10	16	51	21	82	41.5	25	18	48	120	260
B5	FM-B5V5	40	16	14	24	51	21	92	52	25	18	52	120	260
B6	FM-B6V5	53	23	17	30	51	21	103	62.5	25	18	56	120	260
B7	FM-B7V5	75	30	21	45	51	21	113	73	25	18	60	120	260
B8	FM-B8V5	98	37	25	61	51	21	124	83.5	25	18	64	120	260
C3	FM-C3V5	10.5	5	1	5.5	44	14	53	21	18	12	28	120	220
C4	FM-C4V5	20	9	3	11	44	14	60	28	18	12	28	120	220
C5	FM-C5V5	27	12	8	15	44	14	67	35	18	12	29	120	220
C6	FM-C6V5	42	20	10	22	44	14	74	42	18	12	30	120	220
C7	FM-C7V5	63	29	13	34	44	14	81	49	18	12	31	120	220
C8	FM-C8V5	80	38	16	42	44	14	88	56	18	12	32	120	220

* : Negative Pressure Range $\mathbf{H_{max}}$:Working pressur is -80kPa。

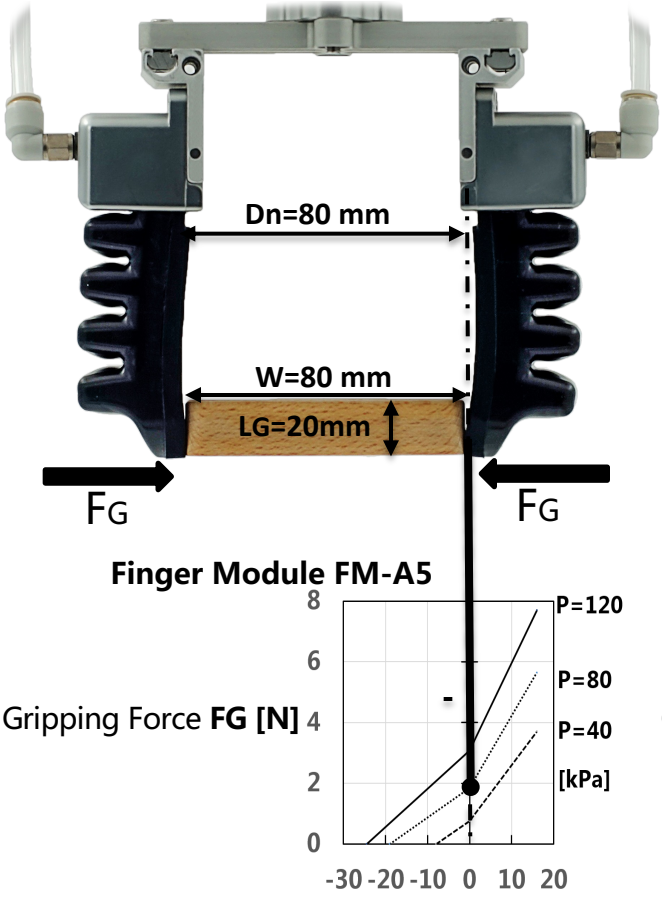
** : Positive Pressure Range $\mathbf{H_{min}}$: For Normal Material Finger[P]/[PAS] , working pressure is 100kPa , For Strong Material Finger[H]/[HAS] , working pressure is 250kPa.

Characteristic parameter : Adjustment and calculation method of gripping force of finger module

When the finger module is inflated, it bends inward and generates a horizontal gripping force FG when contacting the gripped workpiece. This gripping force is related to the shape of the workpiece, the type of finger, the contact area between the finger and the workpiece, the installation fingertip distance Dn (page. 59), and the working air pressure P.

Take FM-A5 finger module (normal material) as an example to clamp a square workpiece under different working conditions. The width of the workpiece is W = 80mm, and the covering length of the fingertip is LG = 20mm:

Working condition 1 :
Installation fingertip distance **Dn=80 [mm]**
Working pressure **P=80 [kPa]**

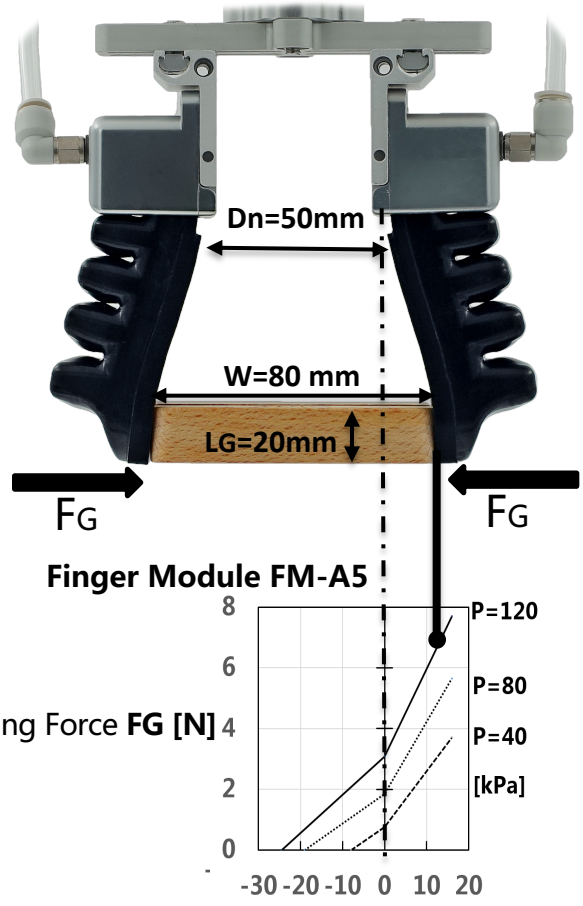


Finger Module FM-A5

Elastic variable **T= (W-Dn) /2=0 [mm]**

Gripping Force **FG=1.85 [N]**

Working condition 2 :
Installation fingertip distance **Dn= 50[mm]**
Working pressure **P=120 [kPa]**



Finger Module FM-A5

When the workpiece width W> installation fingertip distance Dn
Elastic variable **T= (W-Dn) /2=15 [mm]**

Gripping Force **FG=7.3 [N]**

1, Higher working pressure P, higher Gripping force FG.
2, Shorter finger distance Dn, higher Gripping force FG.
3, Bigger finger size, higher Gripping force FG.
4, The strong material finger can hold higher air pressure and has a stronger force than the normal material finger.
5, Exceeding the safe working pressure will cause irreversible damage to the soft finger and a shorter lifetime, while shorter Dn may increase the abrasion of the finger bottom.
6, More fingers in series (Page. 37,39) can also improve the overall Gripping force.
7, Besides the Gripping force FG, the real handling load of the gripper is also related to the shape of the object, friction coefficient, finger bottom print, machine speed, etc.

FM

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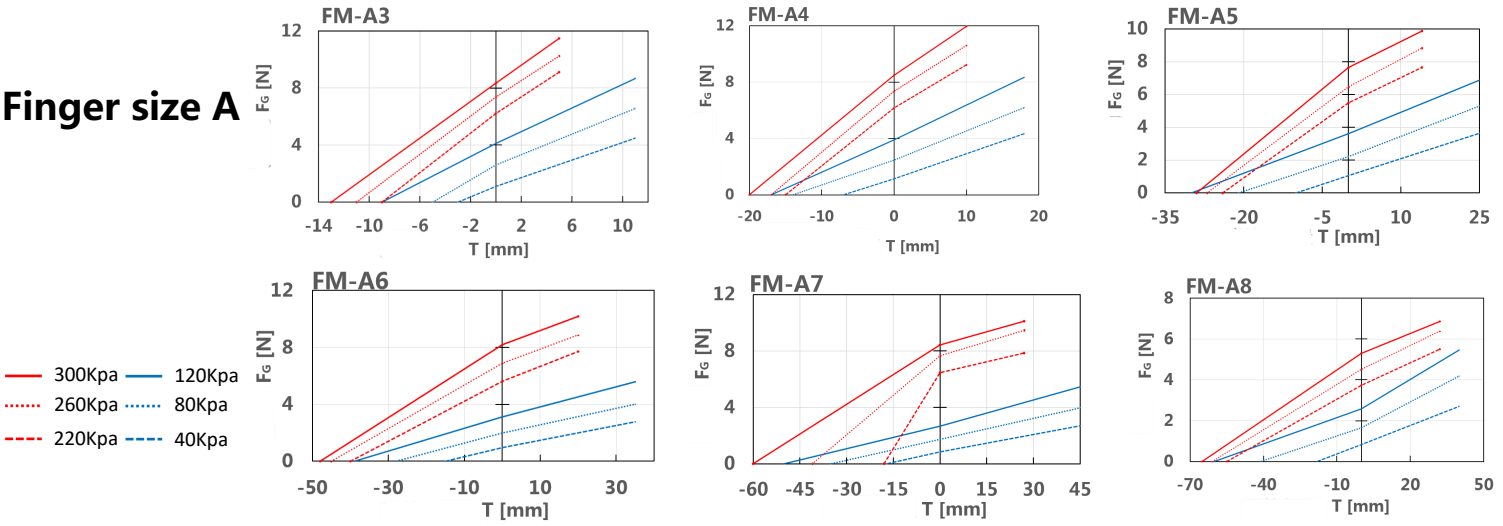
Finger Module Gripping force diagram

The relevant values in the curve are determined under the following conditions:

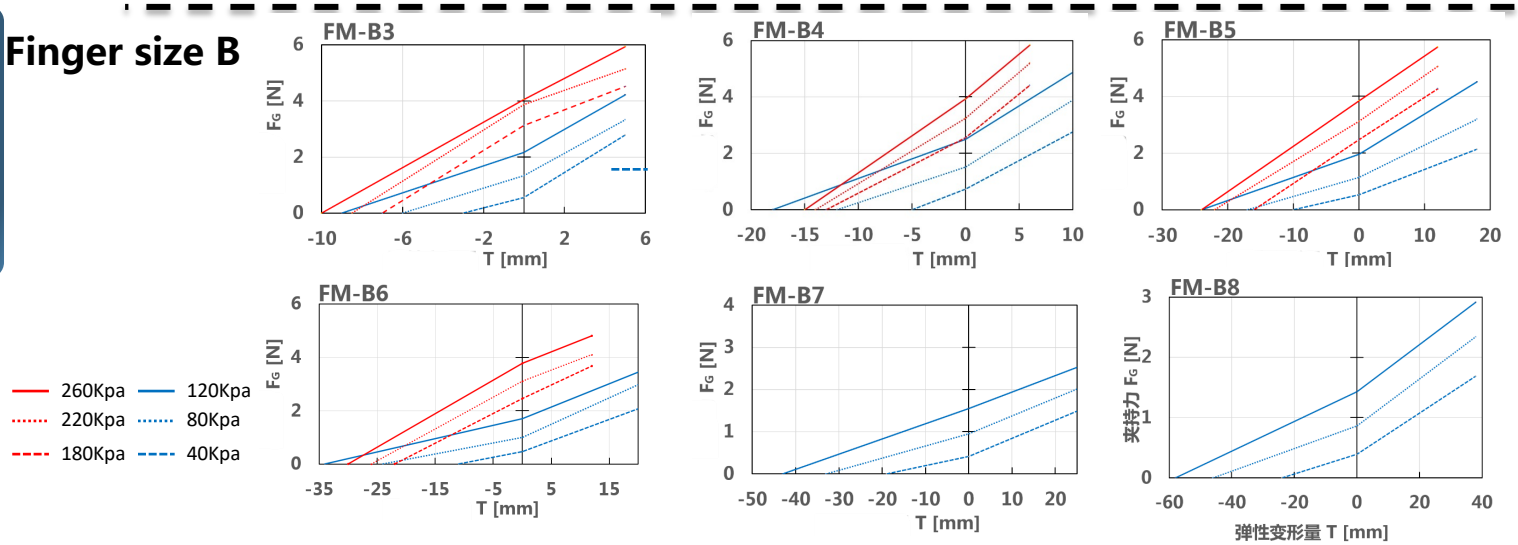
- finger material: normal material, strong material
- use square workpiece, finger pattern LS1, (page. 53)
- only the fingertip part is in contact with the workpiece, and the fingertip covering length LG = 10mm.
- the following data is for reference only. Under other working conditions, the values will be different

FG [N] : Gripping Force
T [mm] : Elastic variable

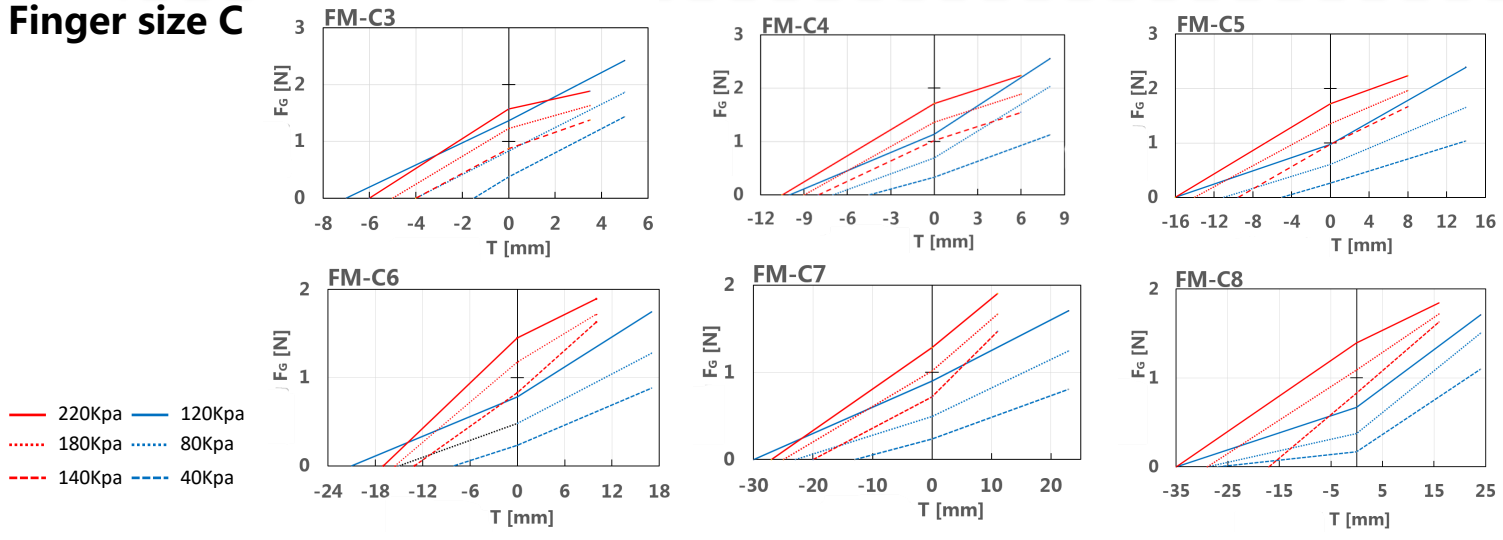
Finger size A



Finger size B



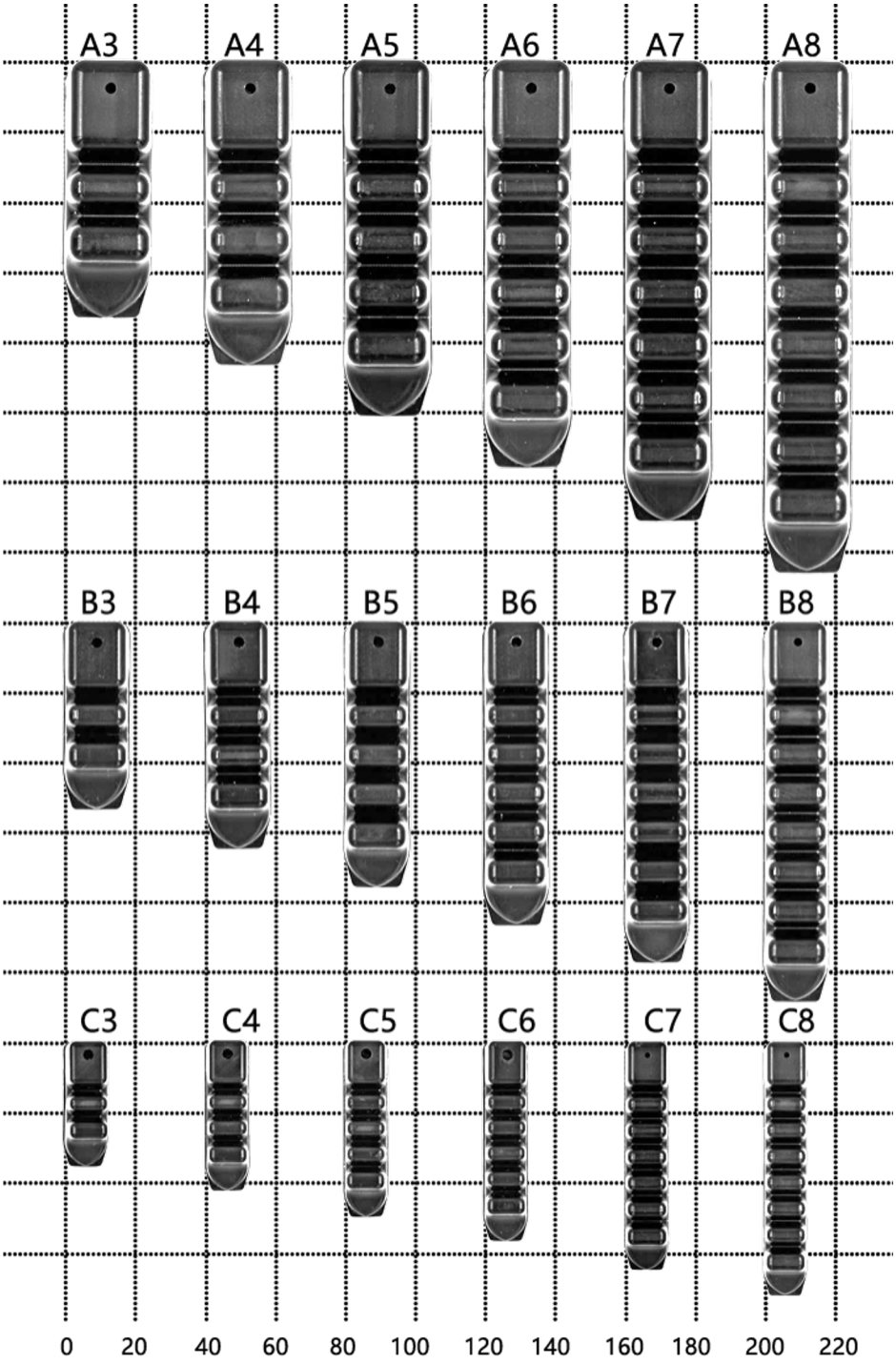
Finger size C



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Rochu Finger [F] can be replaced independently.
There are 18 finger sizes (A3 , A4 , A5 , A6 , A7 , A8; B3 , B4 , B5 , B6 , B7 , B8; C3 , C4 , C5 , C6 , C7 , C8).
With the same working pressure, the wider fingers have higher gripping force, and the shorter fingers have better positioning accuracy and stability.
For customized finger sizes, please contact our customer service.

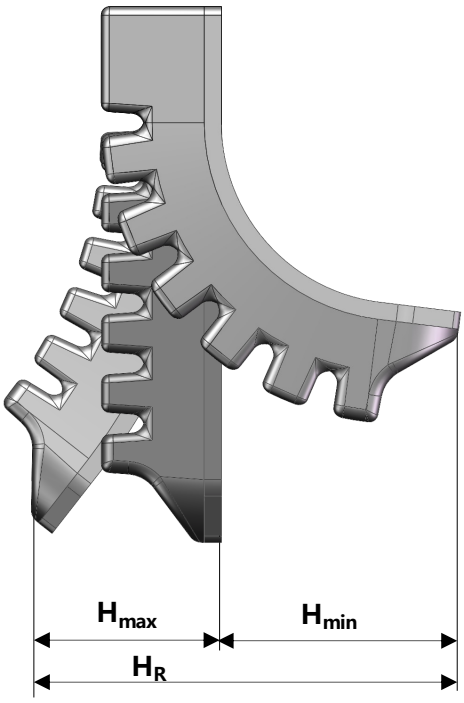
Finger Sizes

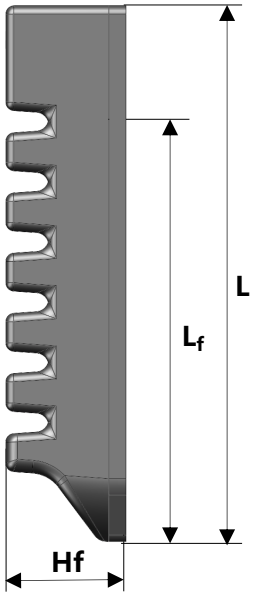


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Finger Size	HR [mm]	Negative Pressure Range * Hmax [mm]		Positive Pressure Range **	Hf [mm]	Lf [mm]	L [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
		Finger Material		Hmin [mm]						Finger Material	
		[P]/[PAS]	[H]/[HAS]							[P]/[PAS]	[H]/[HAS]
F-A3	16.5	8	7	8.5	28	41	69	24	33	120	300
F-A4	27	10	12	17	28	55	83	24	40	120	300
F-A5	43.5	19	16	24.5	28	69	97	24	47	120	300
F-A6	72	33	22	39	28	83	111	24	55	120	300
F-A7	90	39	27	51	28	97	125	24	62	120	300
F-A8	109	45	32	64	28	111	139	24	69	120	300
F-B3	19	10	6	9	21	31	52	18	11	120	260
F-B4	29	13	10	16	21	42	62	18	16	120	260
F-B5	40	16	14	24	21	52	73	18	20	120	260
F-B6	53	23	17	30	21	63	83	18	24	120	260
F-B7	75	30	21	45	21	73	94	18	28	120	260
F-B8	98	37	25	61	21	84	104	18	32	120	260
F-C3	10.5	5	1	5.5	14	21	34	12	4	120	220
F-C4	20	9	3	11	14	28	41	12	5	120	220
F-C5	27	12	8	15	14	35	48	12	6	120	220
F-C6	42	20	10	22	14	42	55	12	7	120	220
F-C7	63	29	13	34	14	49	62	12	7	120	220
F-C8	80	38	16	42	14	56	69	12	8	120	220

* : Negative Pressure Range H_{max} :Working pressure is -80kPa.

** : Positive Pressure Range H_{min} : For Normal Material Finger[P]/[PAS] , working pressure is 100kPa , For Strong Material Finger[H]/[HAS] , working pressure is 250kPa.

4

CU
Control Unit



iPCU2

Integrated Passive Control Unit

page. 448



ACU2-B

Active Control Unit

page. 452



ACU2-H

Active Control Unit

page. 454



PCU2

Passive Control Unit

page. 457



LCU-H

Light Control Unit

page. 462





page. 447

iPCU2-SMN



page. 447

iPCU2-HMN



page. 451

ACU2-B



page. 453

ACU2-H



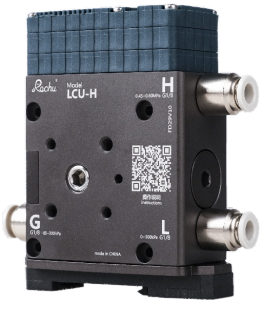
page. 456

PCU2-M



page. 456

PCU2-V



page. 461

LCU-H

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iPCU2

- **Compact** **Passive control unit**
- -90~300kPa three levels can adjust the output pressure range, fully support from soft Beak to soft finger drive.
- Manual knob type pressure regulating.
- Integrated panel with digital display and operation buttons.
- With manual (button) and automatic (I/O level signal) two control modes, with all kinds of mechanical arm, PLC and others.
- Equipped with Installation bracket and industrial rail buckle, a variety of Installation.
- Intelligent alarm function, safe and stable, no need to worry about misoperation.
- with European CE safety certification.



Parameter

Item	Range	Item	Range
Power	24VDC±10%	Frame material	ABS
Rated power	12W	Size	208x134x141mm
Life time	50 million times	N.W.	2.0kg
Input air	0.45~1.00MPa Dry, Clear, stable flow > 200L/min	Protection grade	IP54
		Control mode	1. Manual button 2. I/O , level signal
Output air pressure	-90~300kPa	Working mode	Continuous drive mode
Working noise	50db		

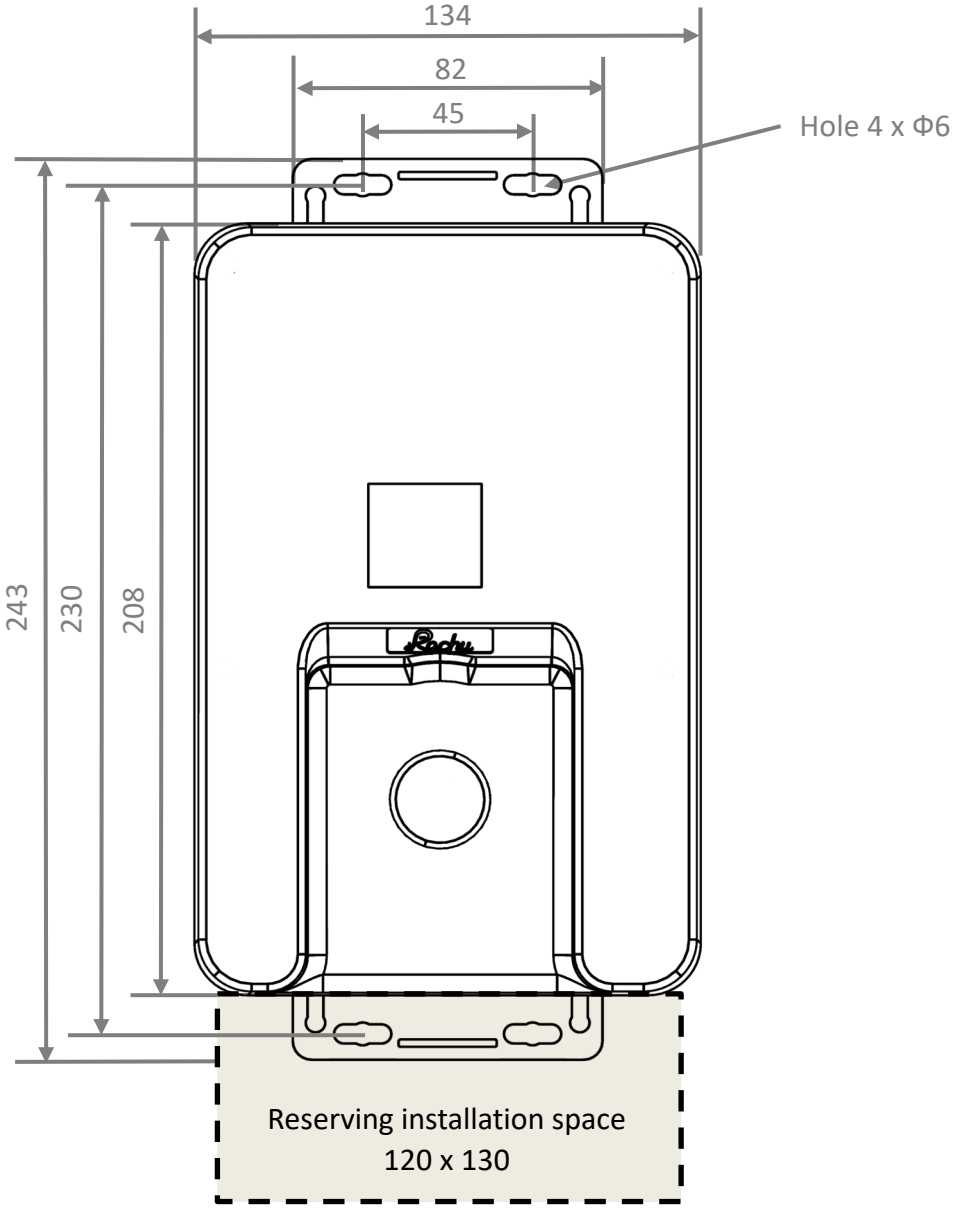
Model

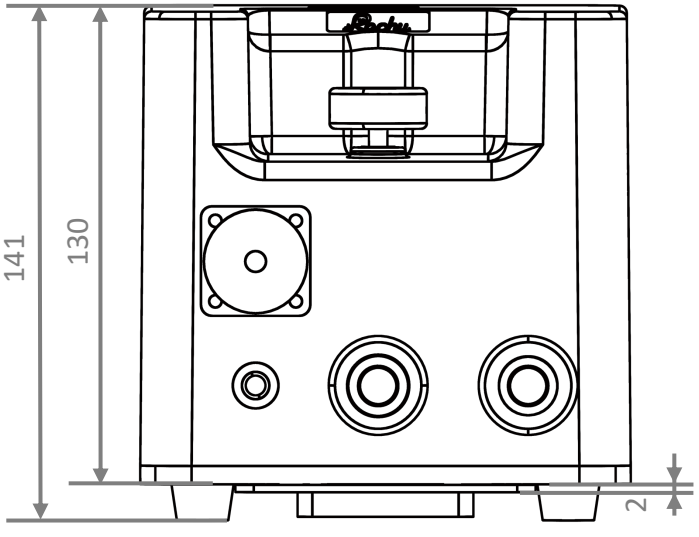
IPCU2 has two options: standard **iPCU2-SMN** and high-speed **iPCU2-HMN**. High-speed ipCU2-HMN has a larger Vacuum flow, which is suitable for high-speed handling.

Model		manual	electronic	Wireless remote	feedback	Safe pressure	Max pressure [kPa]	Pressure flow [L/min]	Vacuum flow [L/min]
Standard	**iPCU2-SMN**	•				adjustable	-90	260	40
High speed	**iPCU2-HMN**	•				adjustable	-80	260	80

The flow parameters test conditions: air source port Pressure= 0.6mpa, gripper set Pressure=100kPa

iPCU2 Size


134
82
45
Hole 4 x Φ6
243
230
208
Reserving installation space
120 x 130


141
130
2

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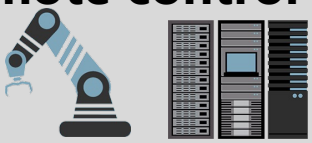
How to use iPCU2?

Air compressor



Pressure range : 0.45-1.00MPa

Remote control



Robot/ PLC / PC

Manual control



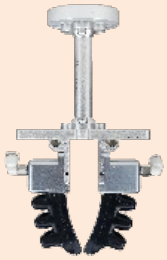
button

I/O signal

Control Unit



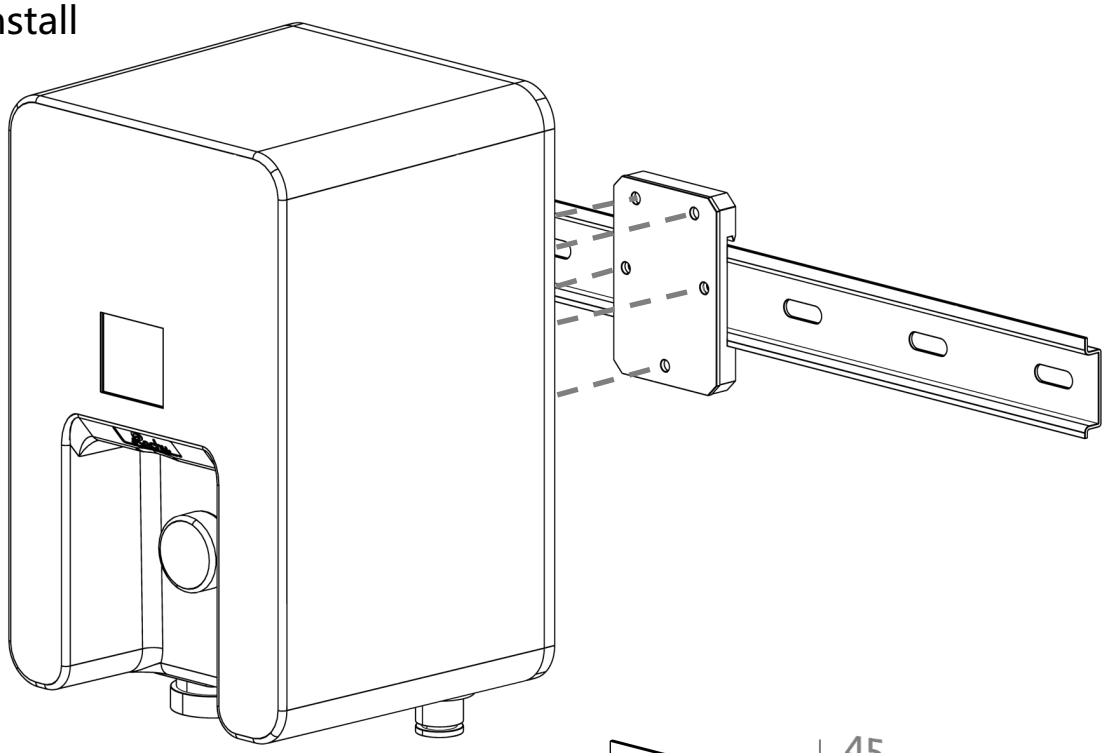
iPCU2 Integrated Passive Control Unit

	Vacuum	Atmosphere	Pressure
Finger	 grab	 release	 open
Beak	 open	 release	 grab

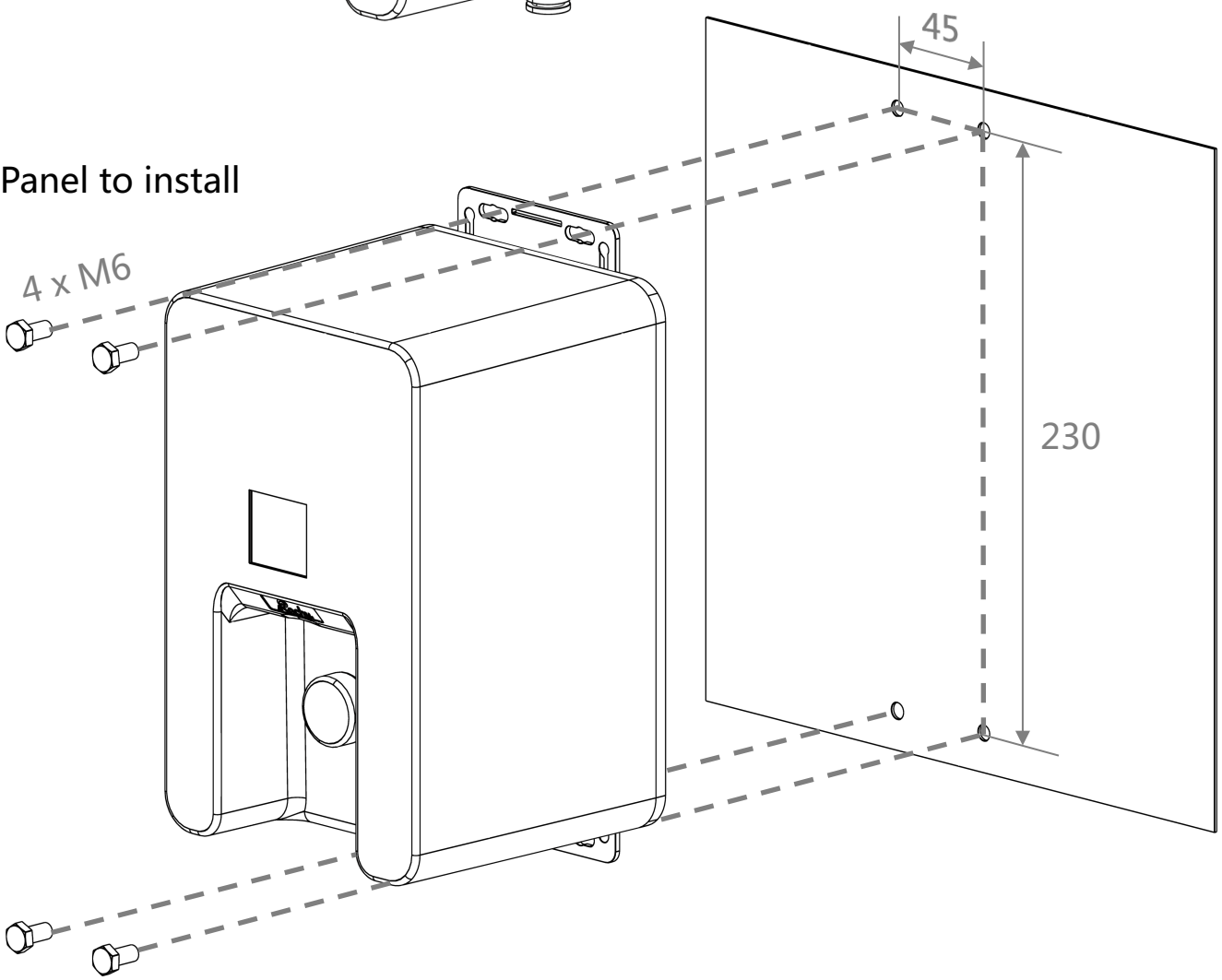
CU

iPCU2 Installation

①Slot to install



②Panel to install



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ACU2-B

• Compact Control Unit

- Built-in air source, compact and light.
- Suit for some soft grippers drive.
- Six levels of Pressure and four levels of Vacuum output, which can be adjusted in real time by buttons on the panel, with output accuracy of ±10kPa.
- Integrated panel with digital display and operation buttons.
- With manual (button) and automatic (I/O level signal) two control modes, suit for all kinds of mechanical arm, PLC terminal.
- Products pass the European CE safety certification.

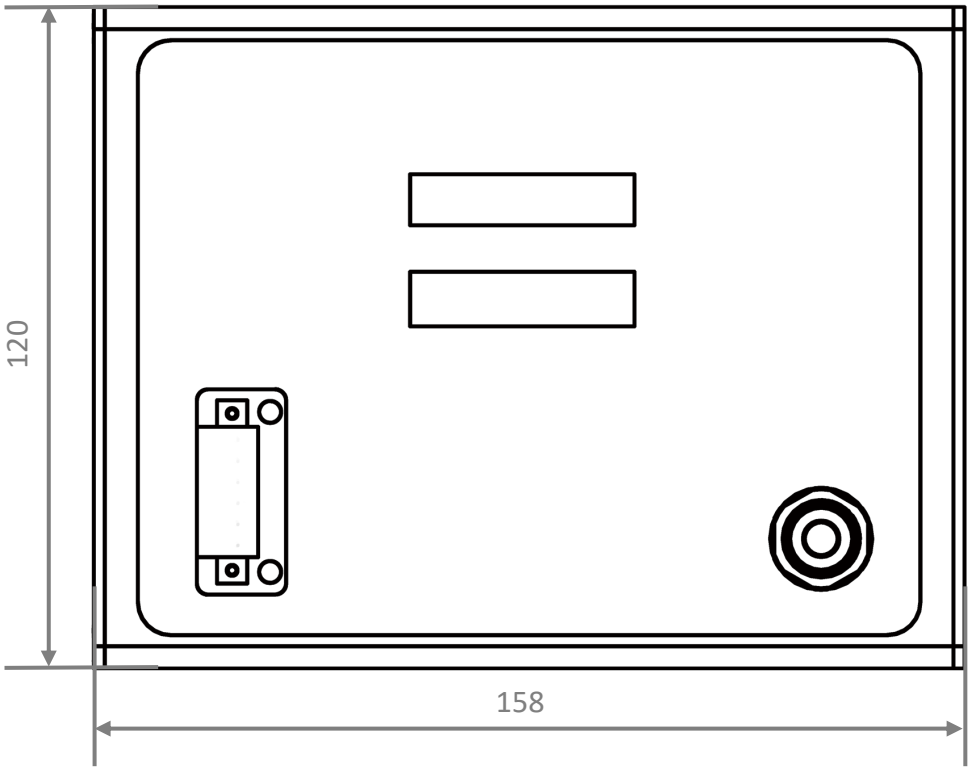


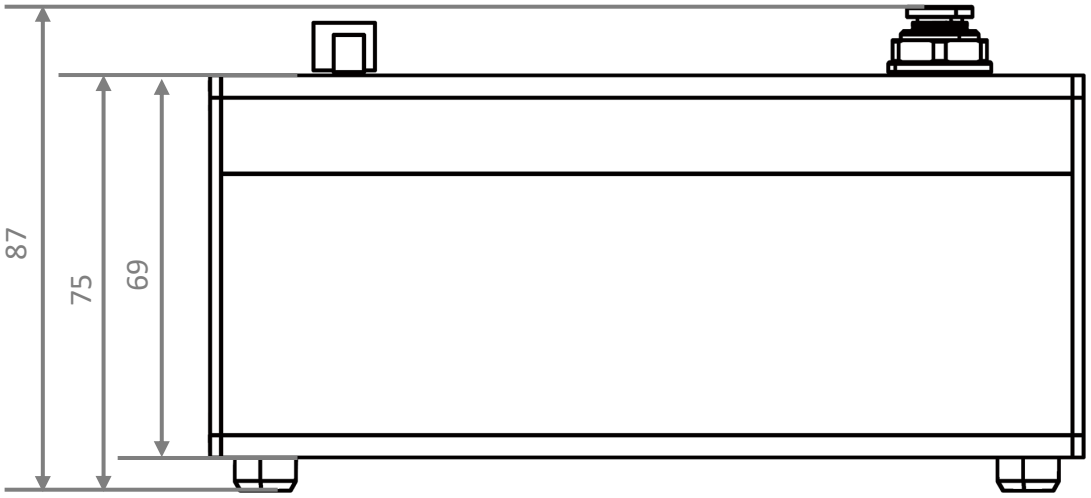
CU

Parameter

Item	Range	Item	Range
Nominal Voltage	24VDC±10%	Frame Material	Anodic oxidation of aluminum alloy
Rated Power	18W	Size	120x158x75mm
Life time	5000小时	Net Weight	980g
Output pressure	setting -80/-60/-40/-20/0/20/40/60/80/100/120 [kPa]	Protect grade	IP54
		Mode	1. Manual button
Output accuracy	±10kPa		2. I/O，level signal
PressureFlow	4L/min	working mode	Continuous signal drive
VacuumFlow	4L/min	working noise	50db

ACU2-B Size





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ACU2-H

- All-in-one flexible active Control Unit.

- Built-in air source, full interface.
- -80~280kPa Output pressure Range, suitable for all series of soft gripper drive.
- Work Pressure, work Vacuum can be real-time digital Adjust through the panel button, Output accuracy±3kPa.
- Integrated panel with digital display and operation buttons.
- With manual (button), I/O, analog and MODBUS control modes, suit for all kinds of mechanical arm, PLC terminal.
- Products through the European CE safety certification.

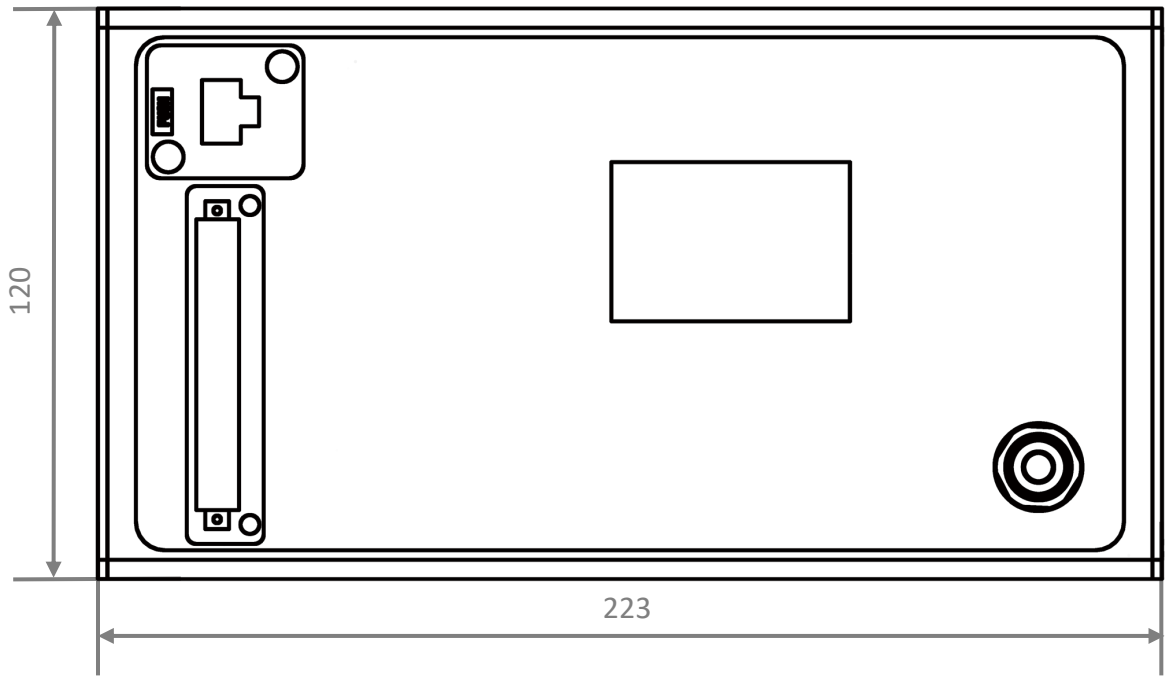


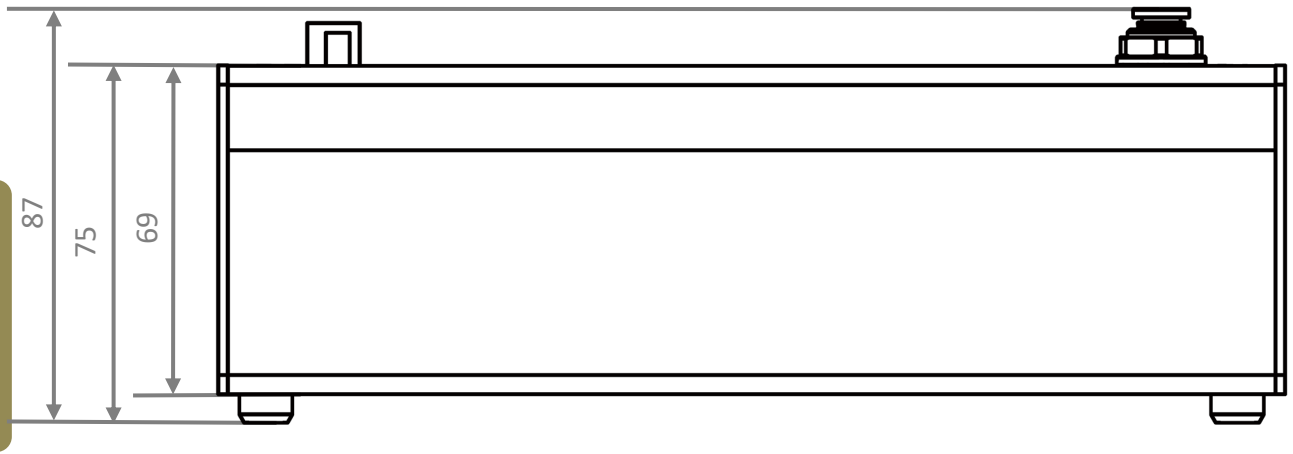
CU

Parameter

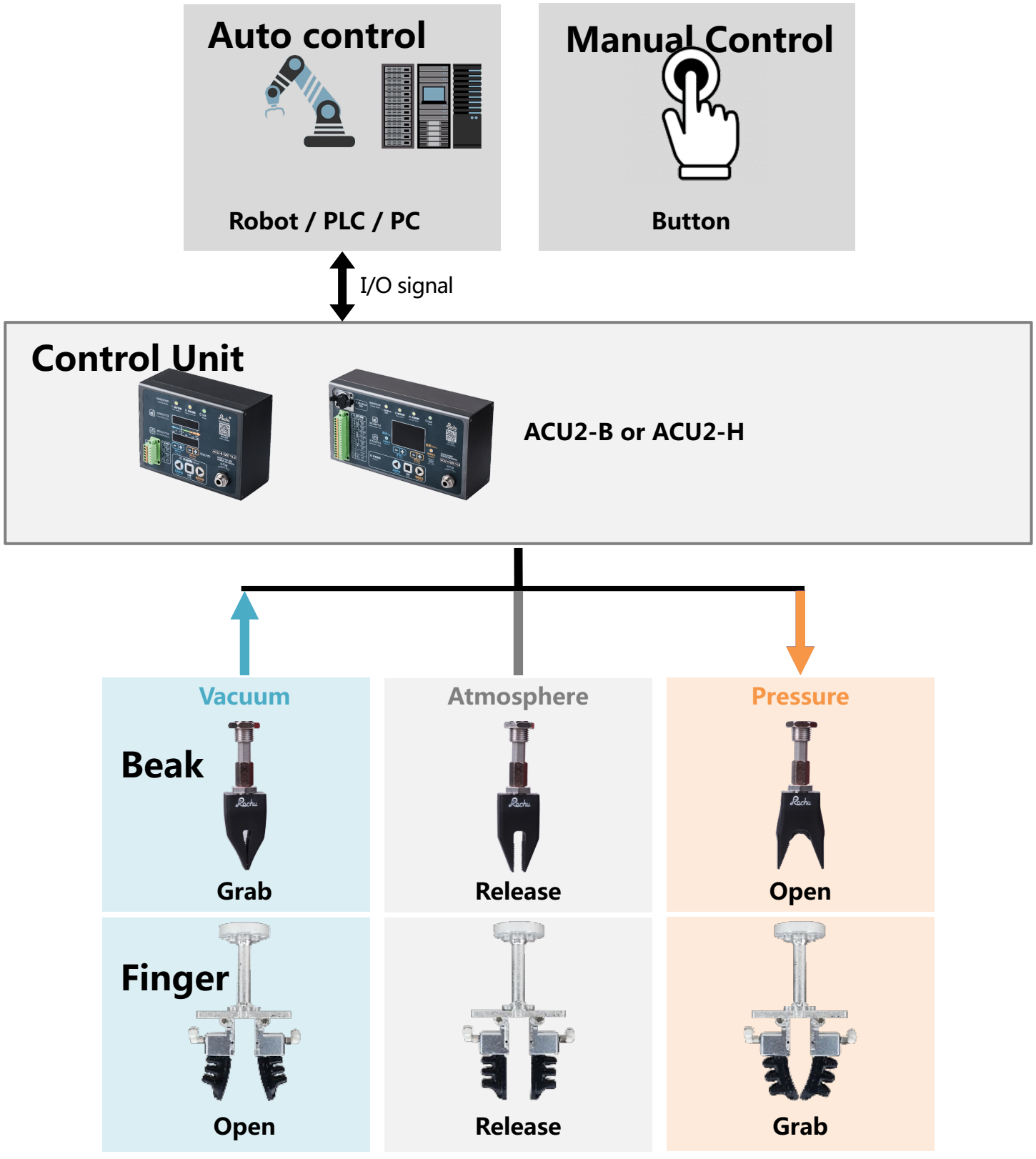
Item	Range	Item	Range
Nominal Voltage	24VDC±10%	Frame Material	Anodic oxidation of aluminum alloy
Rated Power	48W	Size	120x223x75mm
Life time	5000小时	Net Weight	1.8kg
Output pressure	-80~280kPa	Protect grade	IP54
Output accuracy	±3kPa	Mode	1. Manual button
PressureFlow	8L/min		2. I/O，level signal
VacuumFlow	8L/min		3. Voltage analog regulating pressure
working noise	50db		4. MODBUS TCP/RTU
		working mode	Continuous signal drive

ACU2-H Size





How to use ACU2-B & ACU2-H



CU

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PCU2 Control Unit

• Full function controller

- -80~300kPa digital Adjust Output pressure Range，suit for all kinds of Beak & Finger.
- It can precisely adjust the working Pressure or Vacuum, and can choose the manual knob pressure regulating type PCU2-M or the electronic analog pressure regulating type PCU2-V.
- The integrated panel integrates digital display and operation buttons.
- It has various control modes of manual (button), I/O and MODBUS, and is compatible with various mechanical arms and PLC terminals.
- With attitude feedback signal function.
- With an intelligent output alarm signal, it is safe, and there is no need to worry about misoperation.



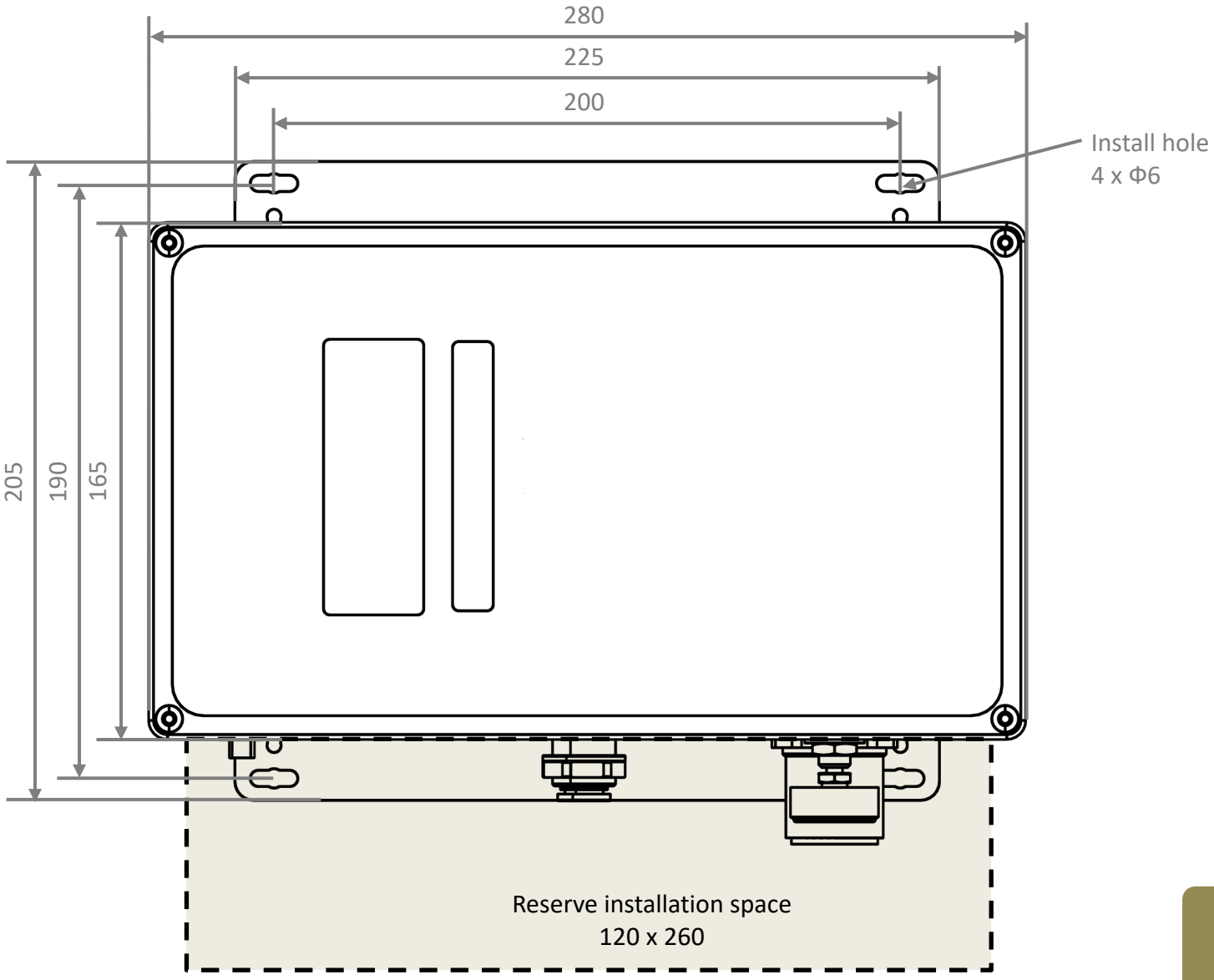
Parameter

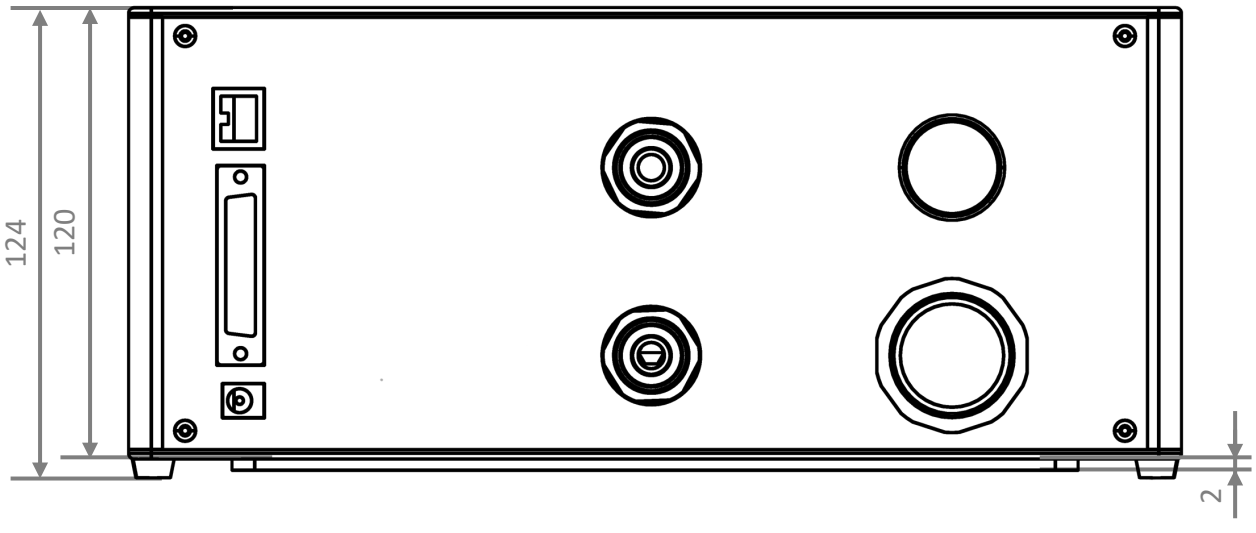
Item	Range	Item	Range
Nominal Voltage	24VDC±10%	Frame Material	Anodic oxidation of aluminum alloy
Rated Power	24W	Net Weight	3.85kg
Life time	50 million times	Protect grade	IP54
input air	0.45~1.00MPa dry、clean、stable Flow > 200L/min	Mode	1. Manual button
			2. I/O，level signal
			3. remote（PCU2-M）
Output pressure	-80~300kPa		4. Modbus TCP/RTU
Pressure Flow	260L/min	working mode	Continuous signal drive
Vacuum Flow	80L/min	working noise	50db

Model

Model		Manual	Electronic	remote	feedback	Safe pressure	Size [mm]	Net Weight [kg]
Manual regulator	**PCU2-M**	•		•	•	adjustable	165x280x124	3.85
Electronic regulator	**PCU2-V**		•		•	adjustable	165x280x154	4.40

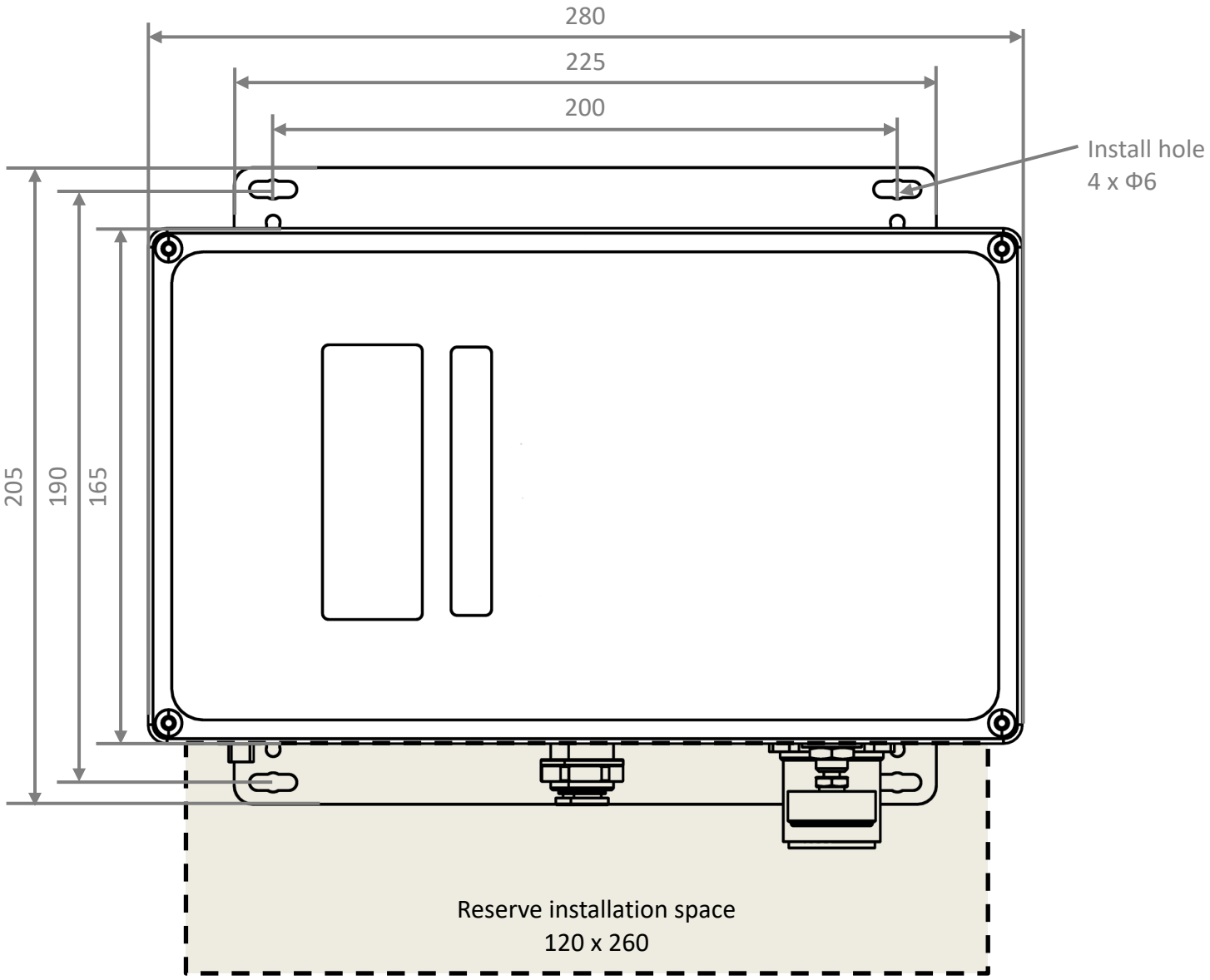
PCU2-M Size

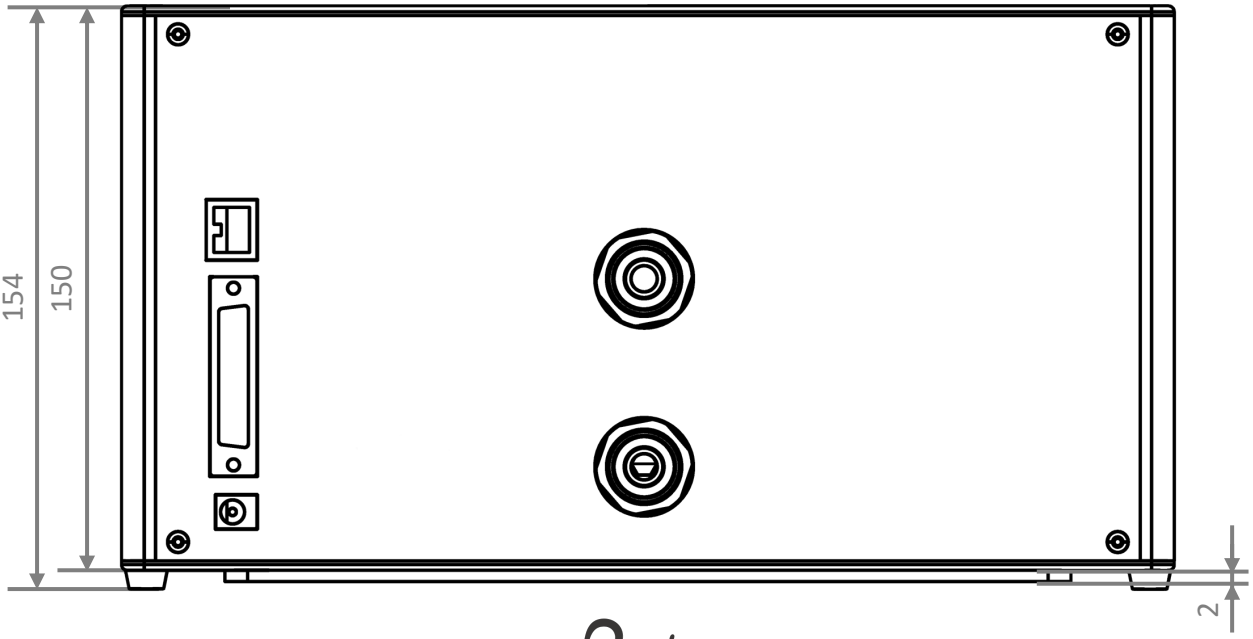




CU

PCU2-V Size


280
225
200
Install hole
4 x Φ6
205
190
165
Reserve installation space
120 x 260


154
150
2

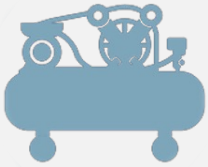
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How to use PCU2

compressed air



Press Range : 0.45-1.00MPa

auto control



Robot / PLC / PC

Manual Control



Button

I/O signal

Driver



PCU2

Vacuum

Beak



Grab

Atmosphere



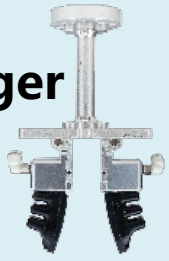
Release

Pressure



Open

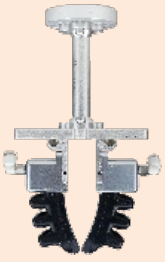
Finger



Open



Release

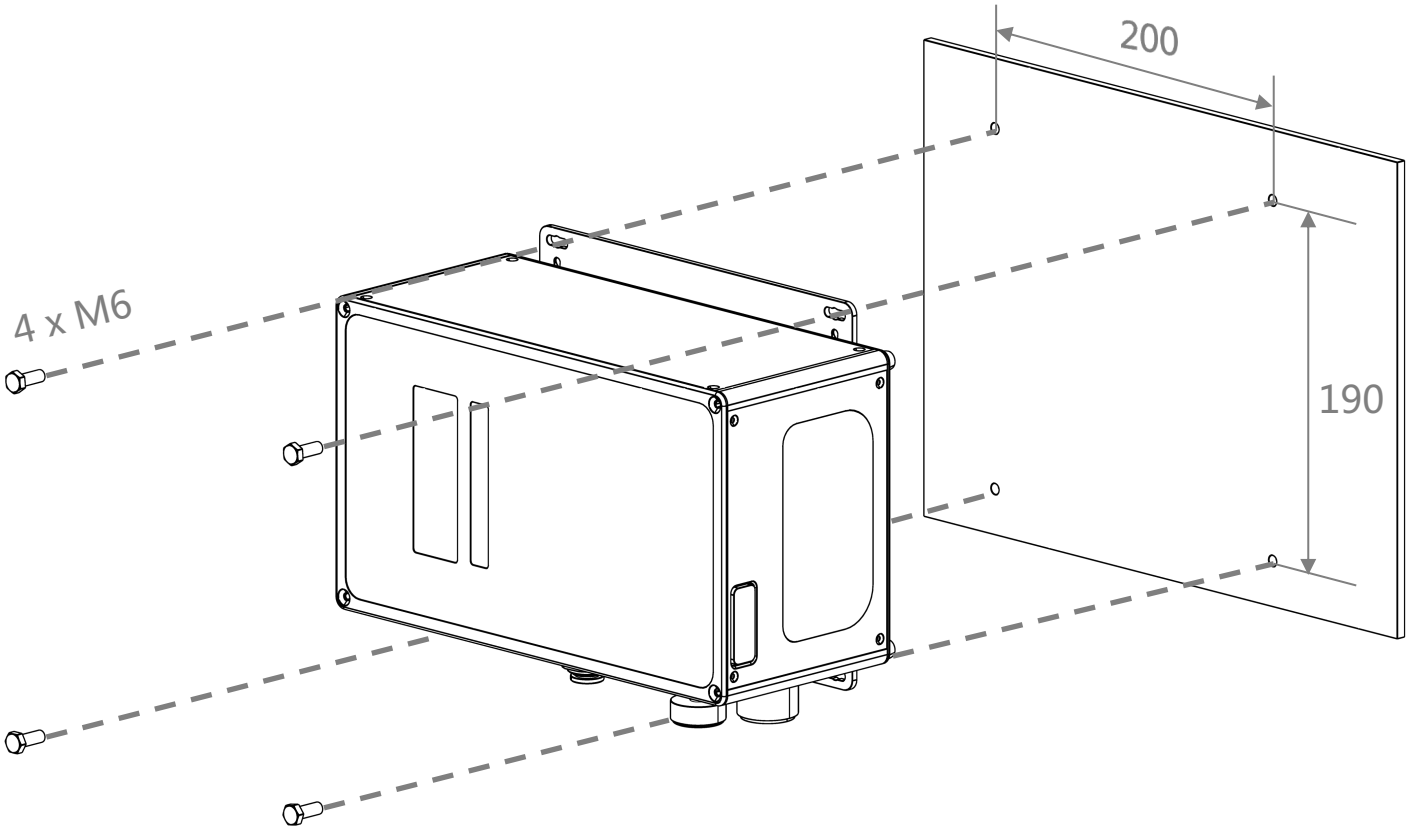


Grab

CU

PCU2 Installation

Panel to install



LCU-H Micro Control Unit

- **Micro Driver**
- -85~300kPa Output pressure Range，Suit for all Beaks and Fingers.
- Cylinder pneumatic Mode, simple operation, convenient replacement.
- Small size, light weight, multi - way and composed of asynchronous drive mode
- Equipped with plane, flange Installation hole and industrial rail buckle, a variety of Installation.



Parameter

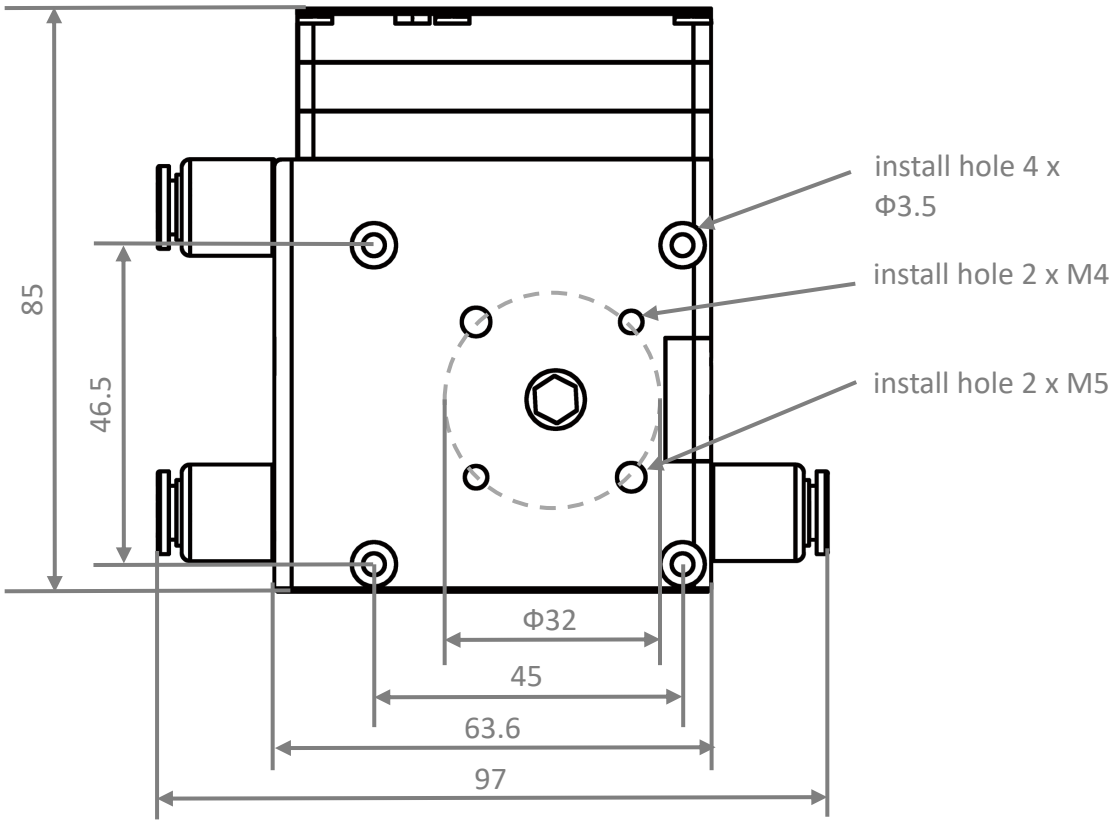
Item	Range	Item	Range
Output pressure	-85~300kPa	Frame material	Anodic oxidation of aluminum alloy
working noise	50db	Size	85x63.6x31mm
Life time	50 million times	Net Weight	350g
input air	0.45~0.80MPa dry、clean、stable Flow > 200L/min	working mode	penumatic
		Pressure Flow	165L/min*
		Vacuum Flow	55L/min

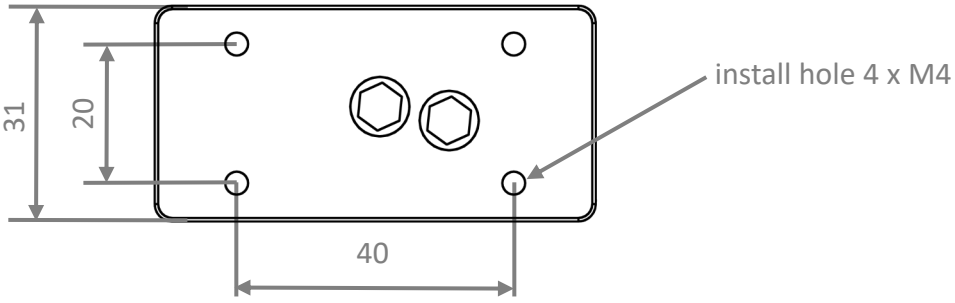
* : The Flow Parameter test conditions are ：
High pressure air source port H=0.6MPa，Low pressure air source port L=100kPa

CU

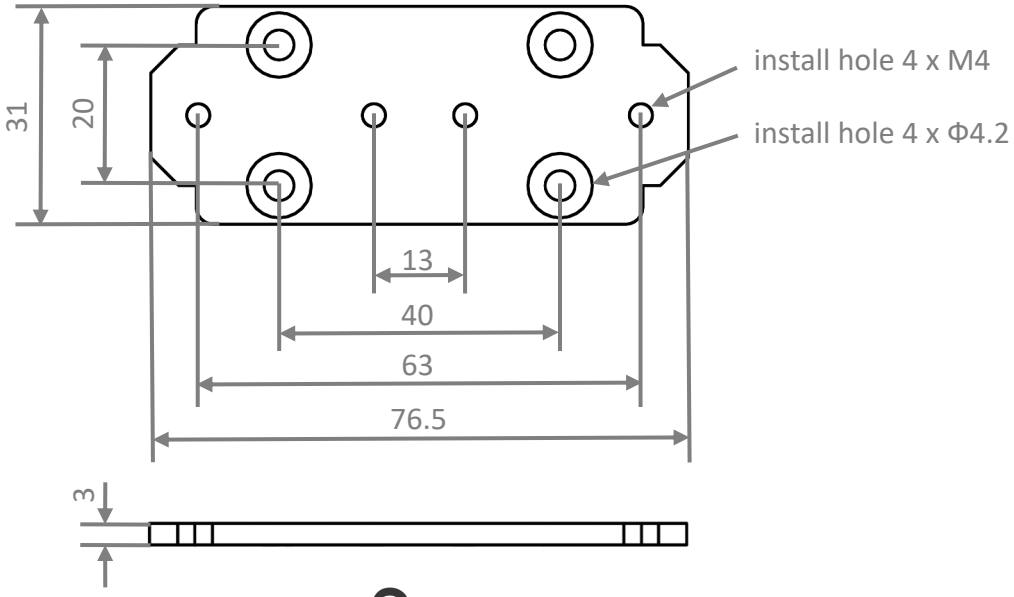
LCU-H Size

LCU-H

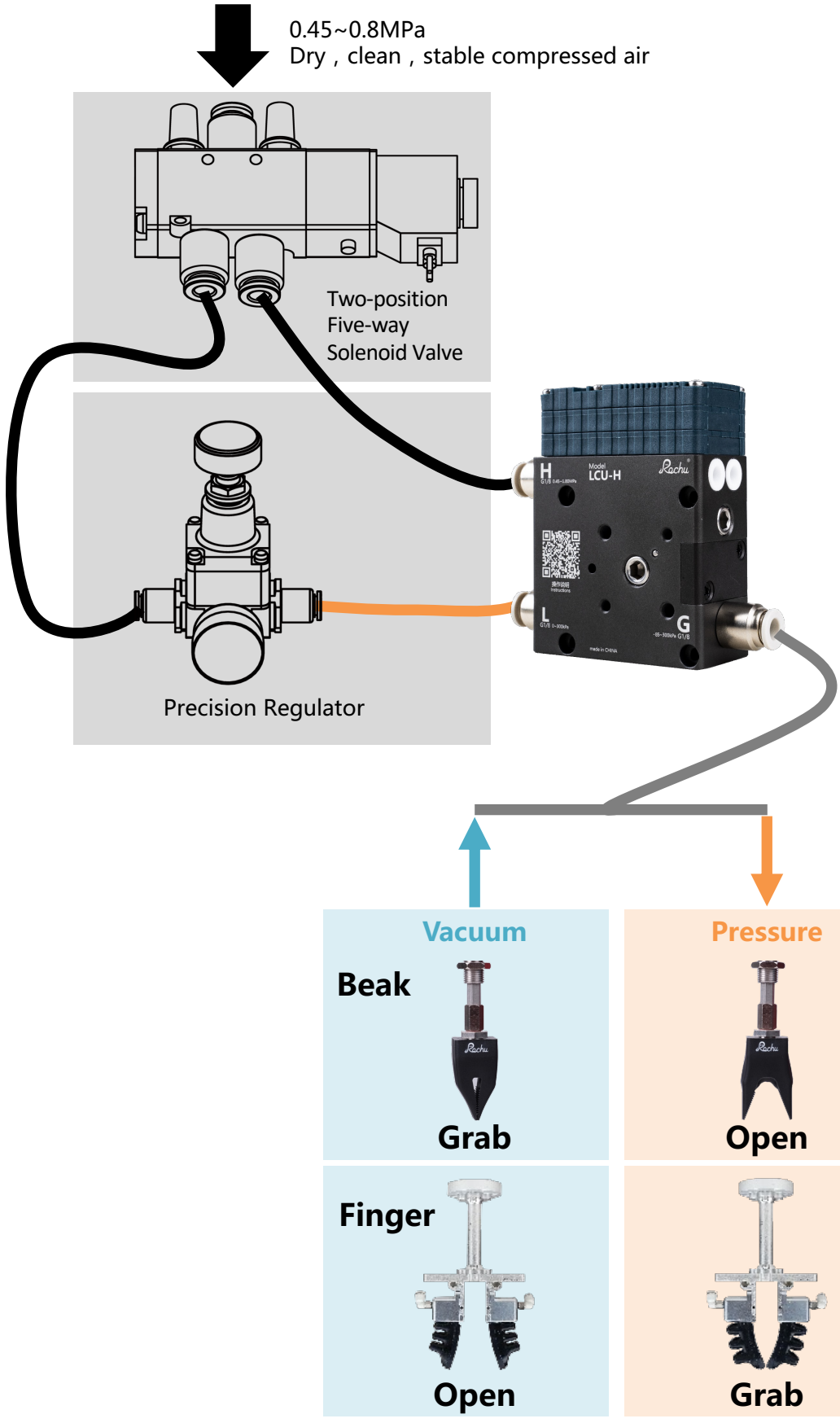




Guide rail buckle adapter plate

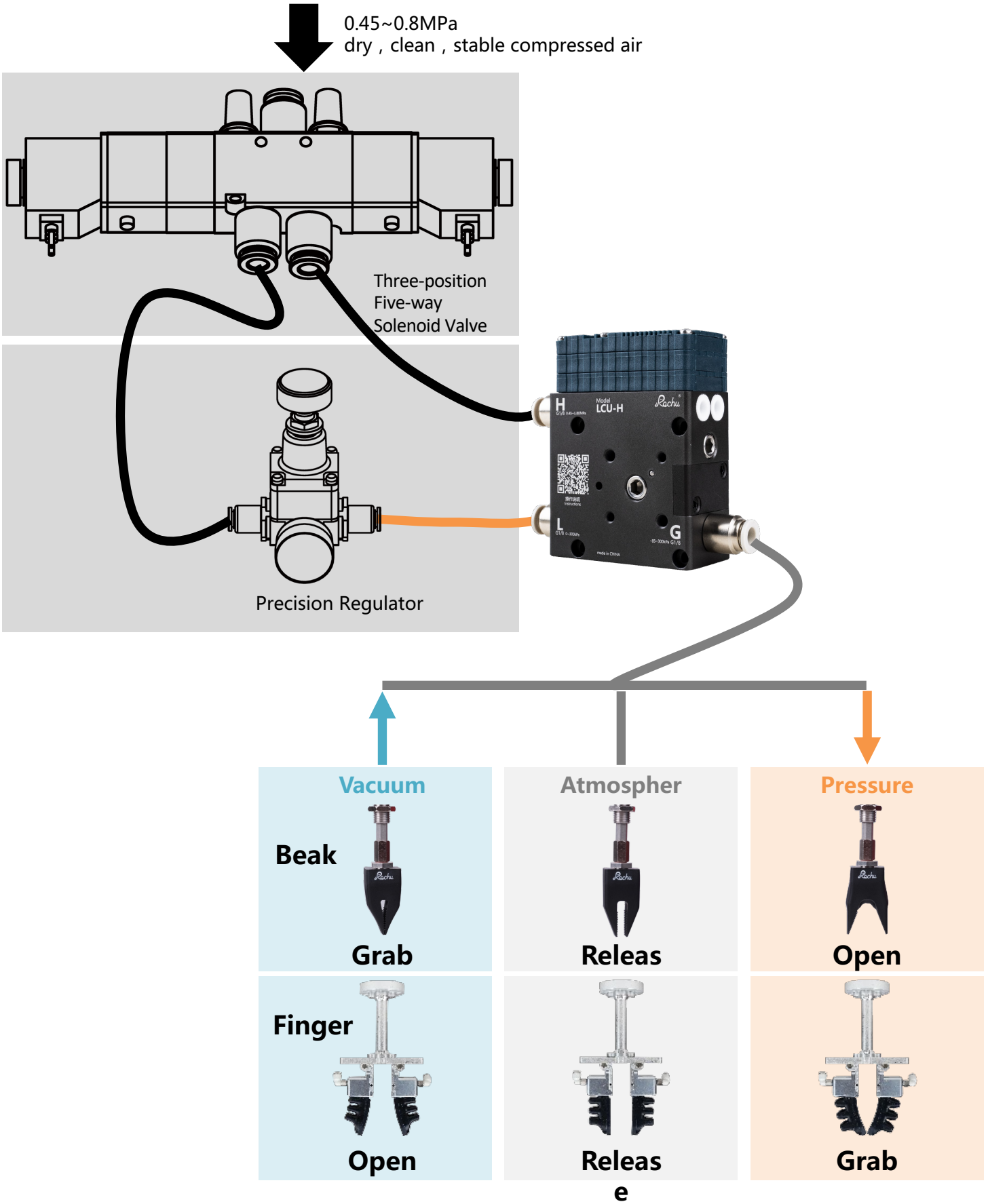


Way 1 : Two- position Single drive

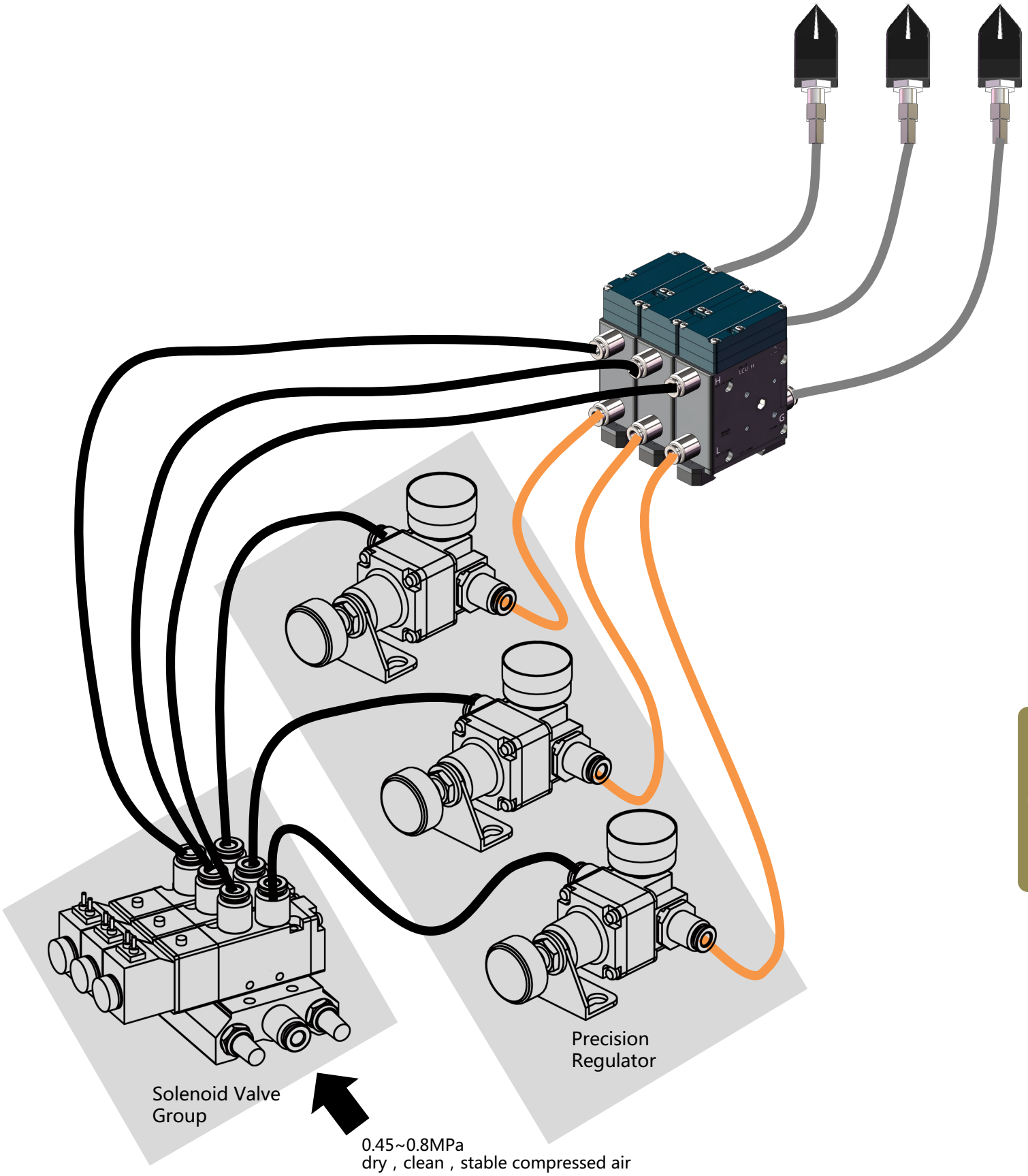


CU

Way 2 : three-position single drive

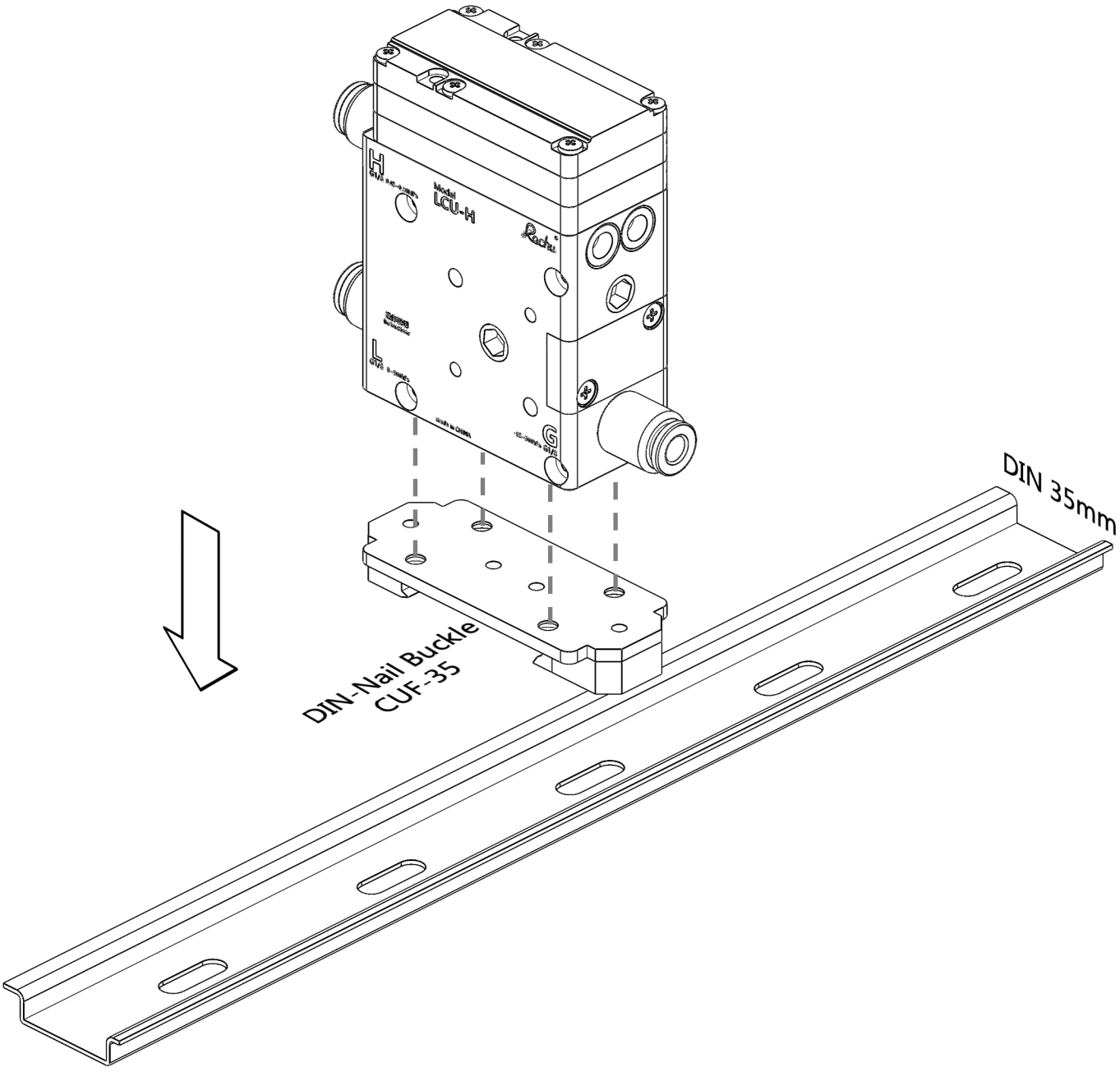


Way 3: Multiple Drive



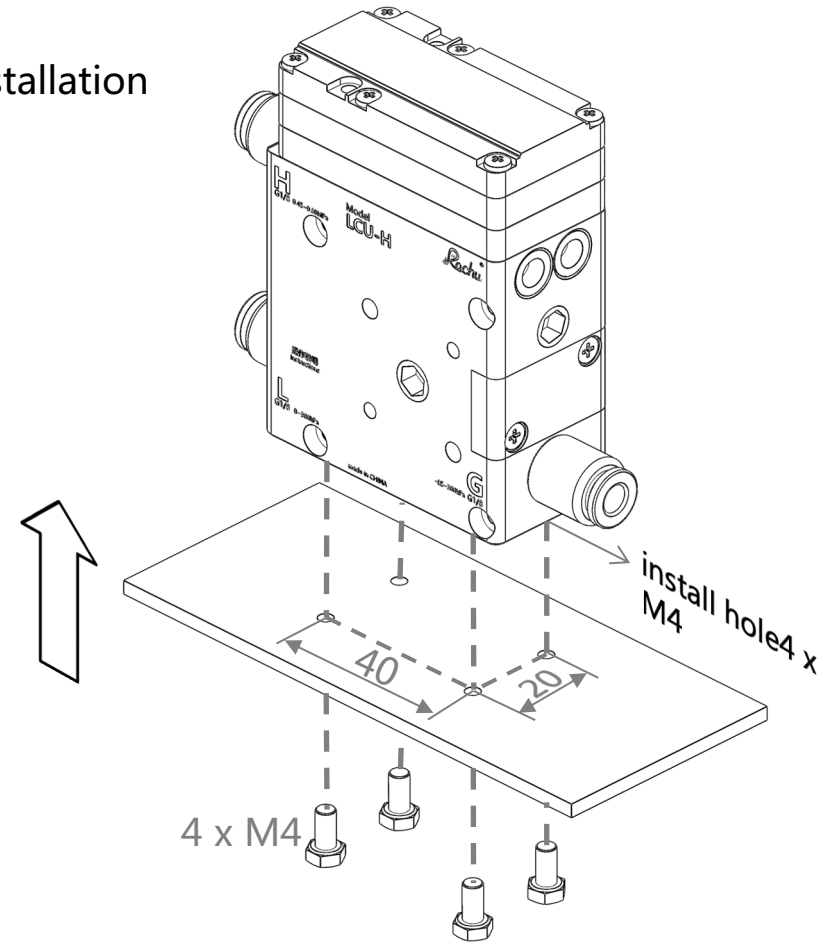
LCU-H Installation

①DIN-Rail Installation

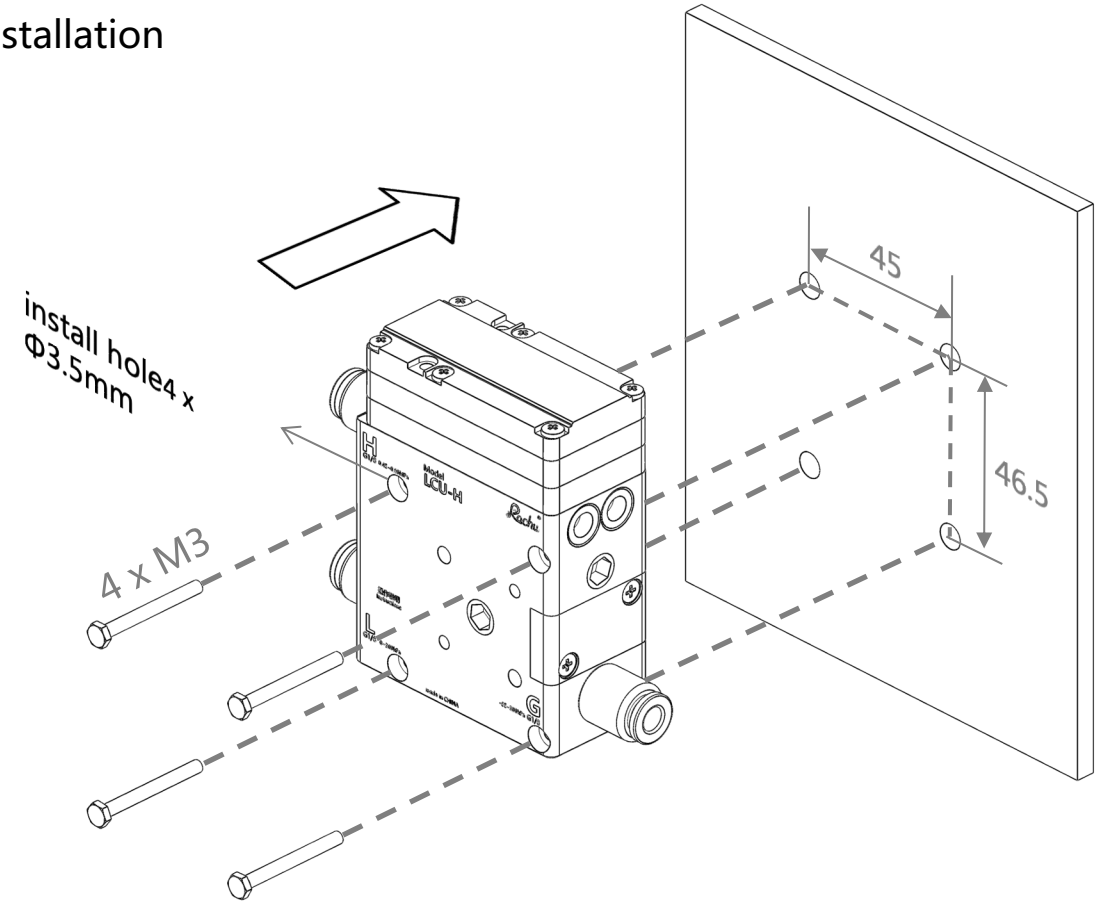


Installation

②Bottom Installation



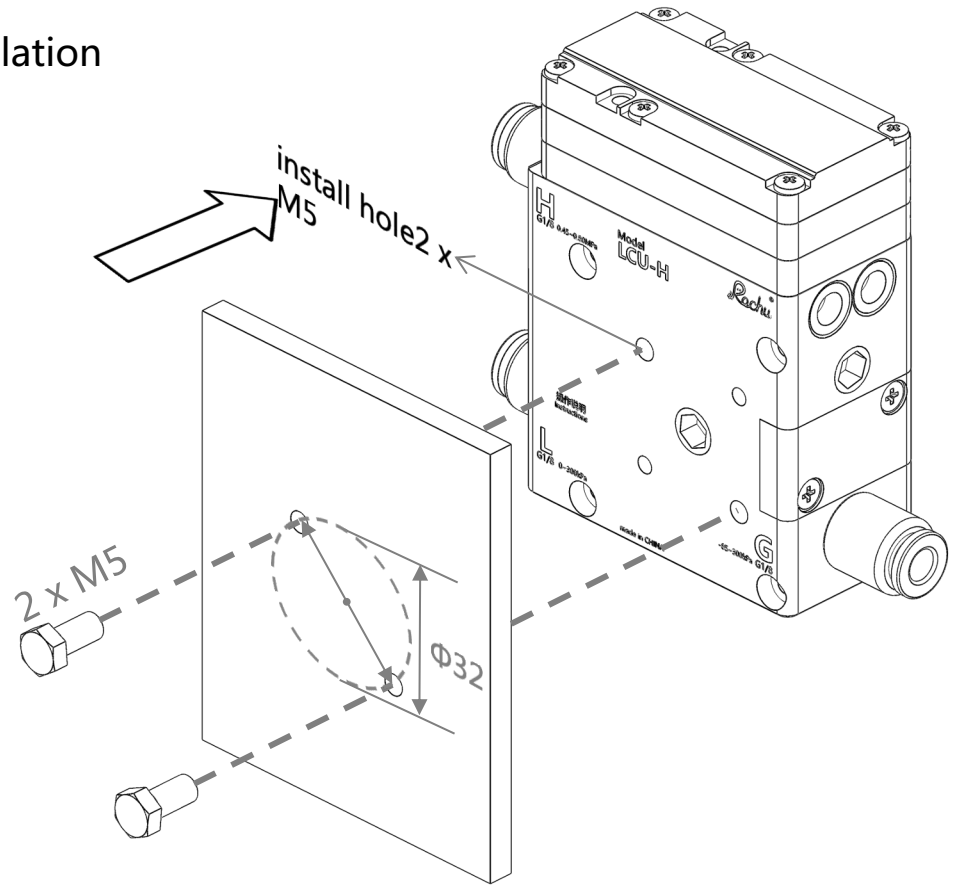
③Side installation



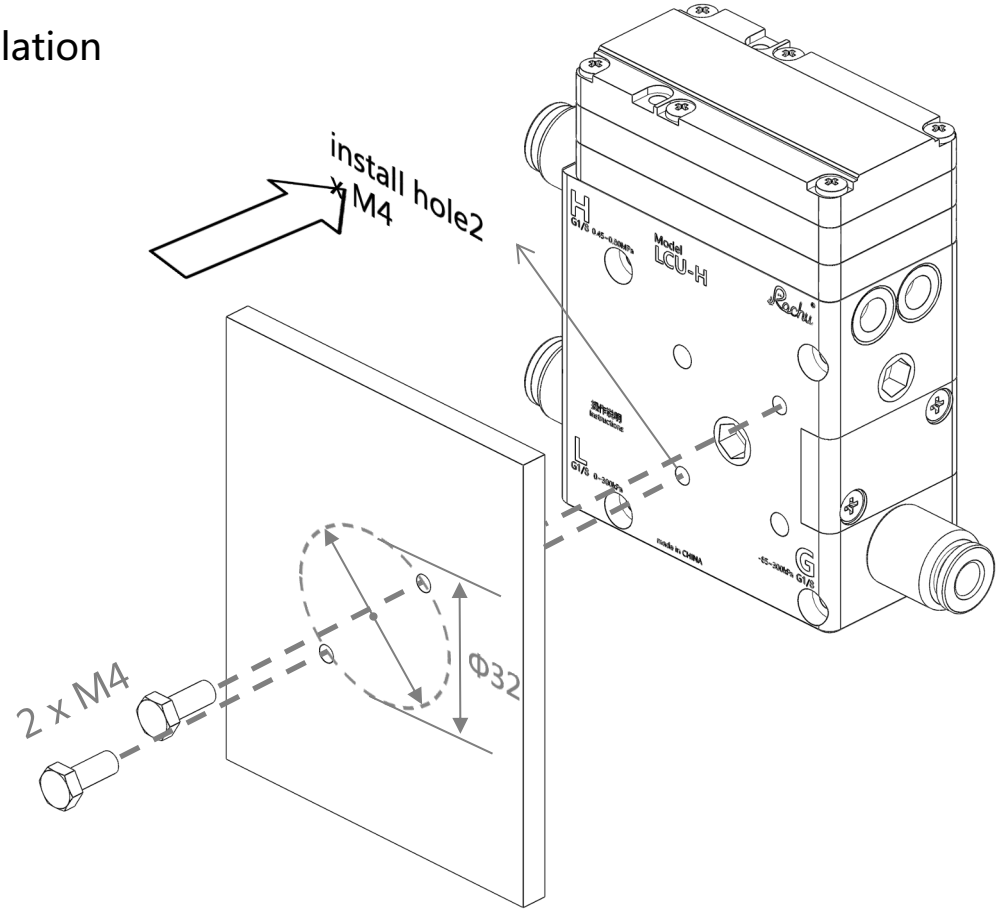
CU

Installation

④Side Installation



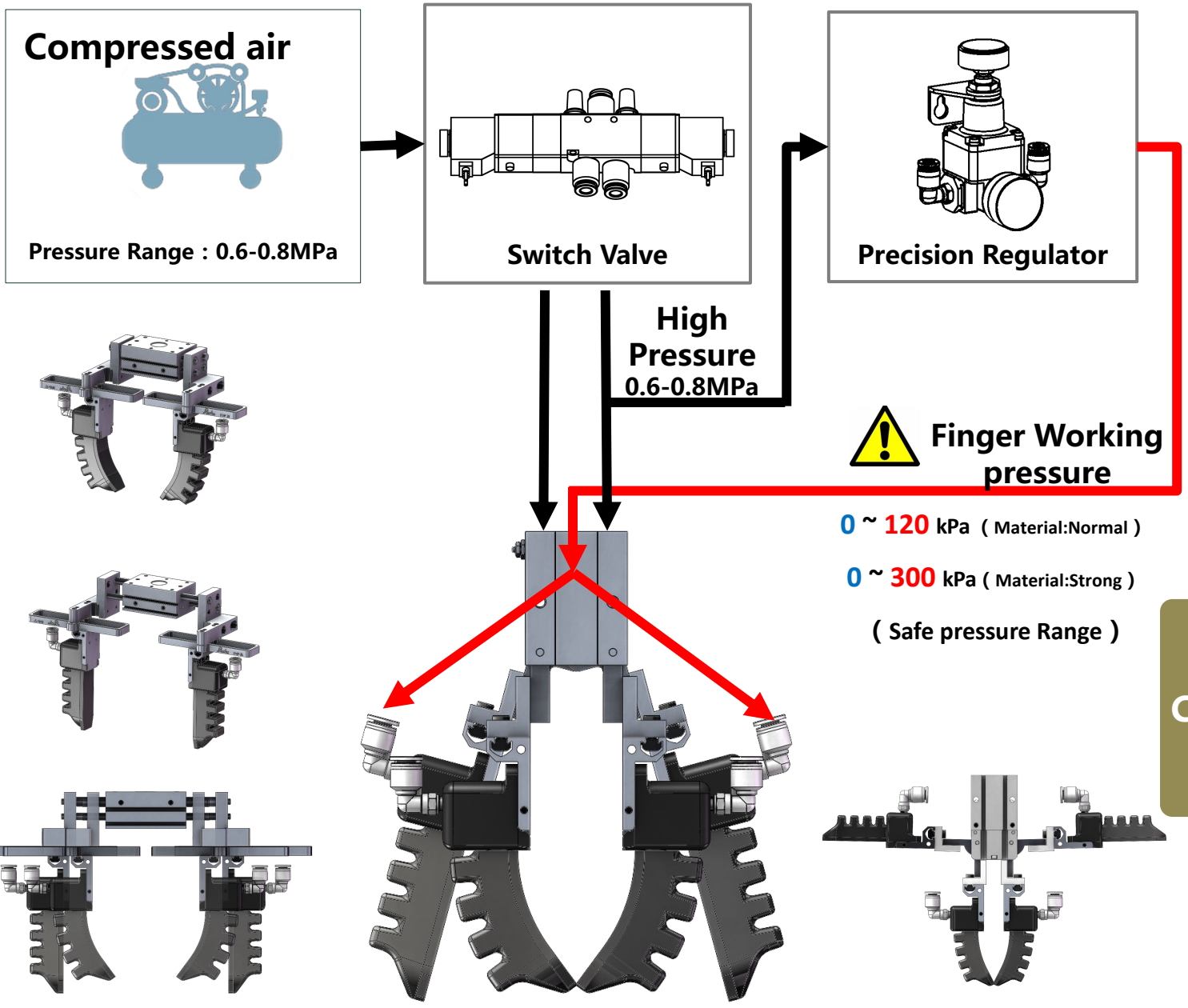
⑤Side Installation



组合驱动方式

Controling of Cylinder & Finger module combination

- The combination of cylinder and finger module is a specific combination of the basic control mode
- It has the advantages of large clamping force of traditional clamping cylinder and soft and self-adaptive of
  flexible fingers, and the clamping force can reach up to 70N
- Independent solenoid valve control, simple structure, small size, low deployment cost.
- Grasp a wider range, can be combined with various brands of cylinder, Y cylinder, 180 degree cylinder



Translational cylinder Y Cylinder 180 degree Cylinder

The air pressure must be strictly controlled within the Safe limit. Overloading may cause irreversible damage to the product.

5

CM
Connection module



SMP
Slide Mounting Plate



CM
Connection Module



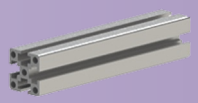
FCM
Flange Connection Module



QCM
Quick changer Module



CP
Connector Part



P
Profile





page. 472

SMP Slide Mounting Plate



page. 479

CM Connection Module



page. 481

FCM Flange Connection Module



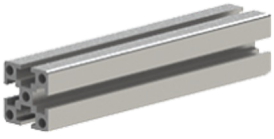
page. 486

QCM Quick changer Module



page. 488

CP Connector Part



page. 489

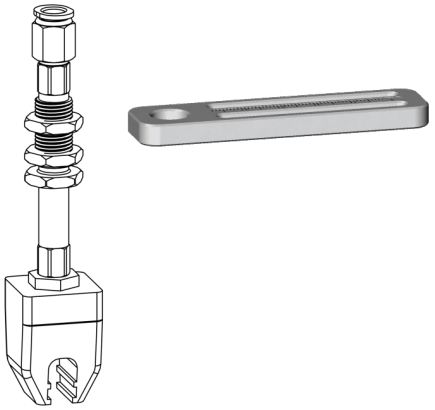
P Profile

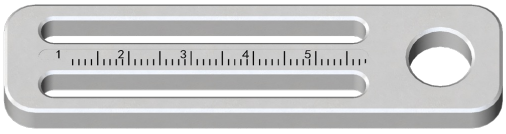
Slide Mounting Plate

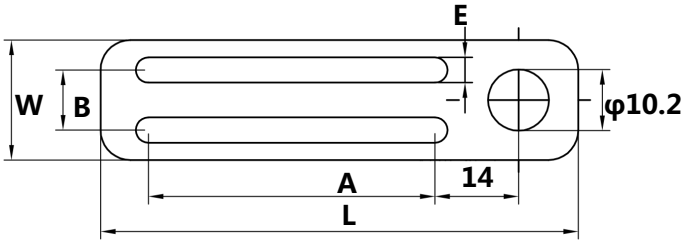
SMP-Soft Beak Module Series

Product features

- Length: SMP-13/ SMP-14 / SMP-15/ SMP-16.
- Assembling between soft beak module **[BM]**, connection module **[CM]** and aluminum profile **[P]**.
- The installation Angle and position of the soft beak module **[BM]** can be adjusted freely.
- Accessory package (PK-SMP01) included.







Accessory package PK-SMP01


2 x SF-081 (M4)


2 x SF-076 (M4x14)

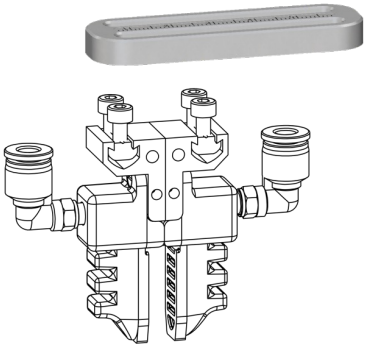
Model	Slot Length A [mm]	Slot Space B [mm]	Slot Width E [mm]	Length L [mm]	Width W [mm]	Thickness [mm]	Weight [g]
SMP-13	20	10	4.2	50	20	6	10.7
SMP-14	48	10	4.2	80	20	6	16.2
SMP-15	80	10	4.2	110	20	6	21.6
SMP-16	110	10	4.2	140	20	6	27.1

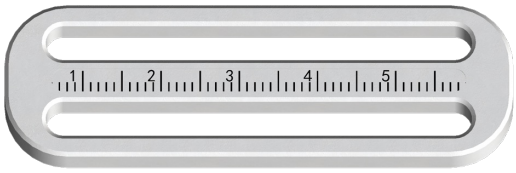
Slide Mounting Plate/ Slide Mounting Plate

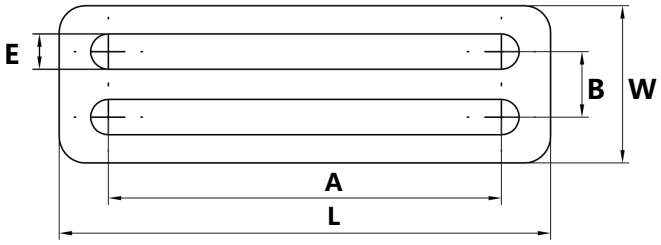
SMP-Independent finger module series

Product features

- Length: SMP-01 / SMP-02 / SMP-03
- Assembling between soft finger module **[FM],** and aluminum profile **[P]**.
- The installation Angle and position of the soft finger module **[FM]** can be adjusted freely.
- Accessory package (PK-SMP01) included.







Accessory package PK-SMP01


2 x SF-081 (M4)

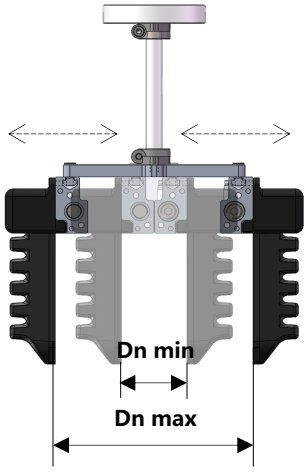

2 x SF-076 (M4x14)

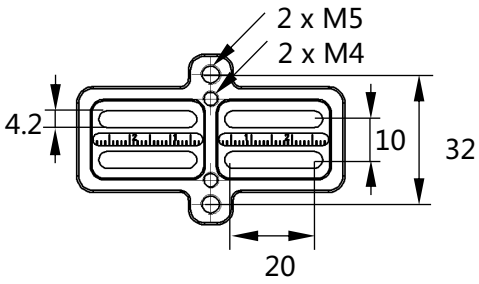
Model	Slot Length A [mm]	Slot Space B [mm]	Slot Width E [mm]	Length L [mm]	Width W [mm]	Thickness [mm]	Weight [g]
SMP-01	50	10	4.2	65	20	6	10.8
SMP-02	75	10	4.2	90	20	6	16.1
SMP-03	100	10	4.2	115	20	6	18.5

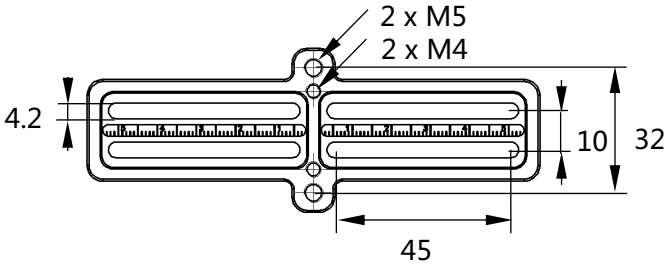
SMP-Multidirection series

Product features

- Different styles according to shape and slot length.
- Assembling between soft finger module **[FM],** and flange connection module **[FCM]**.
- The installation Angle and position of the soft finger module **[FM]** can be adjusted freely.

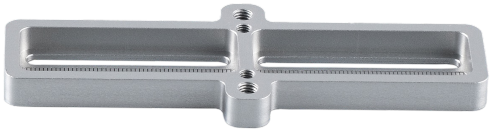








SMP-2S



SMP-2L

	Model	Thickness [mm]	Atmospheric Fingertip Distance Dn [mm] Dnmin~Dnmax		**Weight [g]**
			V2,V4 Finger Module	V3,V5 Finger Module	
Two-way	**SMP-2S**	8	40~69	10~37	18.2
	SMP-2L	8	40~119	10~87	28.2

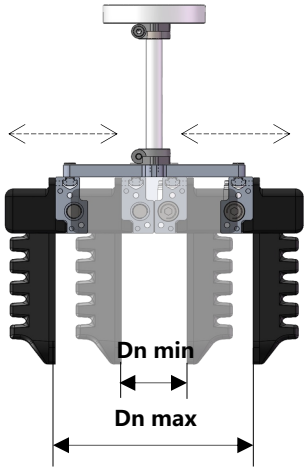
CM

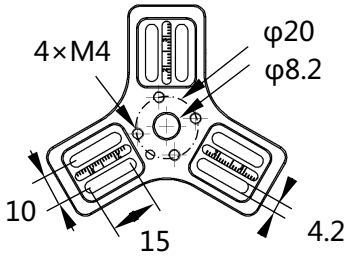
* : Maximum gripping range of gripper combination Gmax=Dnmax+2Hmax. For Hmax, please refer to the Finger Module parameter page.

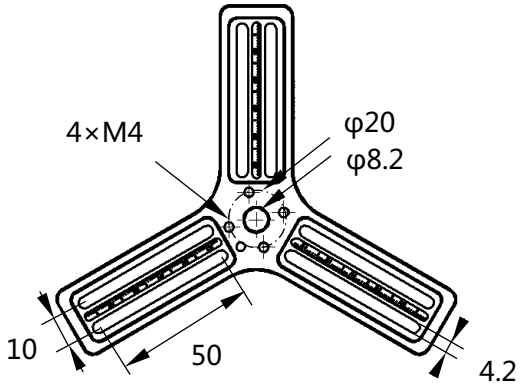
SMP-Multidirection series

Product features

- Different styles according to shape and Slot Length.
- Assembling between soft finger module **[FM],** and flange connection module **[FCM]**.
- The installation Angle and position of the soft finger module **[FM]** can be adjusted freely.









SMP-3S



SMP-3L

	Model	Thickness [mm]	AtmosphereFingertip DistanceDn [mm] Dnmin~Dnmax		**Weight[g]**
			V2,V4Finger Module	V3,V5Finger Module	
Three-way	**SMP-3S**	8	58~82	28~50	34.6
	SMP-3L	8	58~152	28~120	54.1

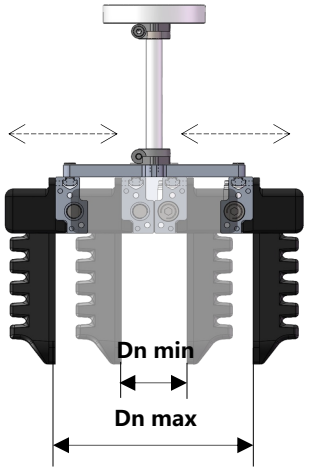
* : Maximum gripping range of gripper combination Gmax=Dnmax+2Hmax. For Hmax, please refer to the Finger Module parameter page.

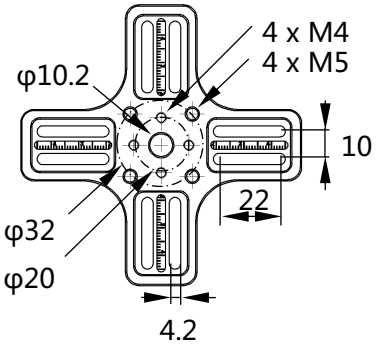
CM

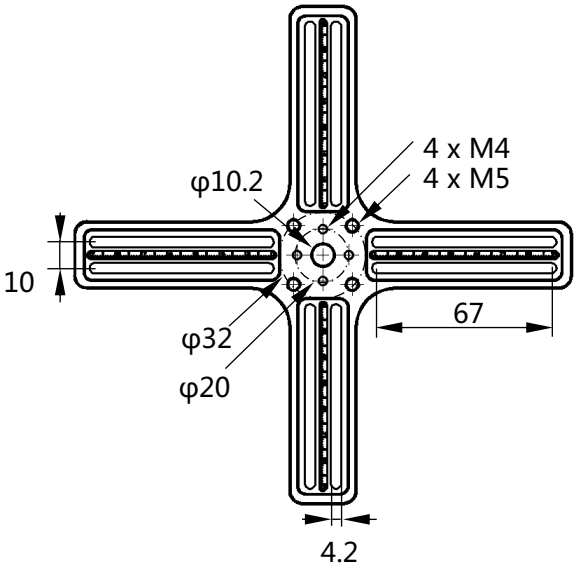
SMP-Multidirection series

Product features

- Different styles according to shape and Slot Length.
- Assembling between soft finger module **[FM]**, and flange connection module **[FCM]**.
- The installation Angle and position of the soft finger module **[FM]** can be adjusted freely.

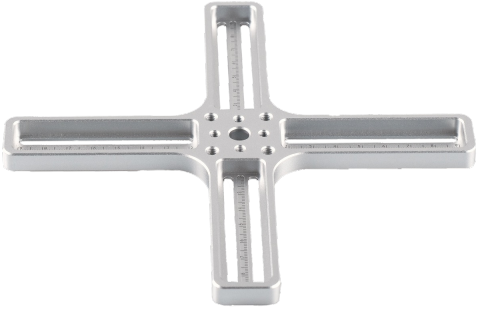








SMP-4S



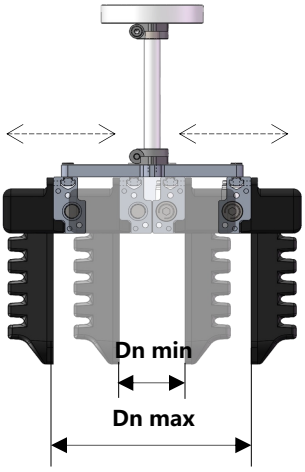
SMP-4L

	Model	Thickness [mm]	AtmosphereFingertip DistanceDn [mm] Dnmin~Dnmax		Weight[g]
			V2,V4Finger Module	V3,V5Finger Module	
Four-way	**SMP-4S**	8	72~104	41~72	55
	SMP-4L	8	72~194	41~162	89.5

CM

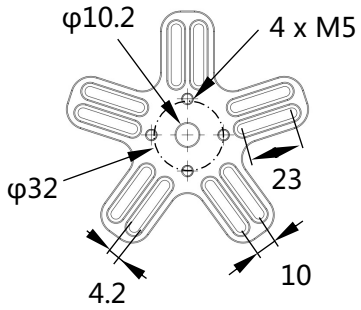
* : Maximum gripping range of gripper combination Gmax=Dnmax+2Hmax. For Hmax, please refer to the Finger Module parameter page.

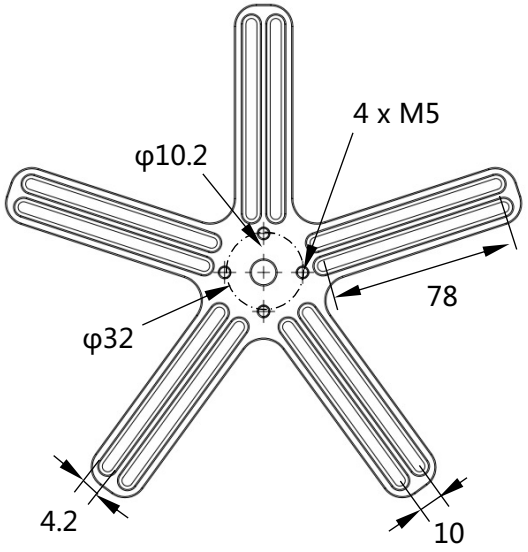
SMP-Multidirection series



Product features

- Different styles according to shape and Slot Length.
- Assembling between soft finger module **[FM]**, and flange connection module **[FCM]**.
- The installation Angle and position of the soft finger module **[FM]** can be adjusted freely.







SMP-5S



SMP-5L

	Model	Thickness [mm]	AtmosphereFingertip DistanceDn [mm] Dnmin~Dnmax		**Weight[g]**
			V2,V4Finger Module	V3,V5Finger Module	
Five-way	**SMP-5S**	10	91~112	53~80	95.4
	SMP-5L	10	91~222	53~109	181

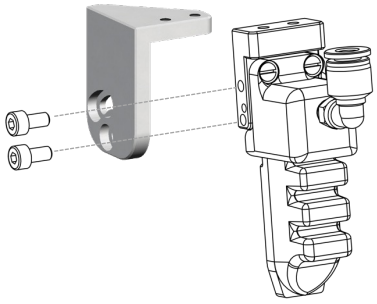
* : Maximum gripping range of gripper combination Gmax=Dnmax+2Hmax. For Hmax, please refer to the Finger Module parameter page.

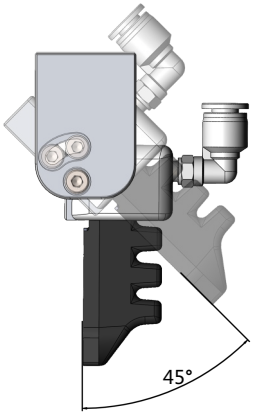
CM

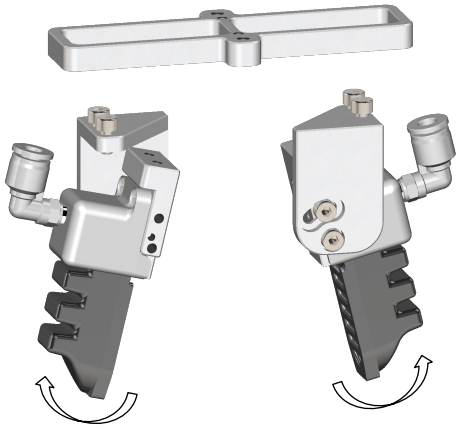
Connector Part

CP-AC Soft finger module installation Angle adjustment piece

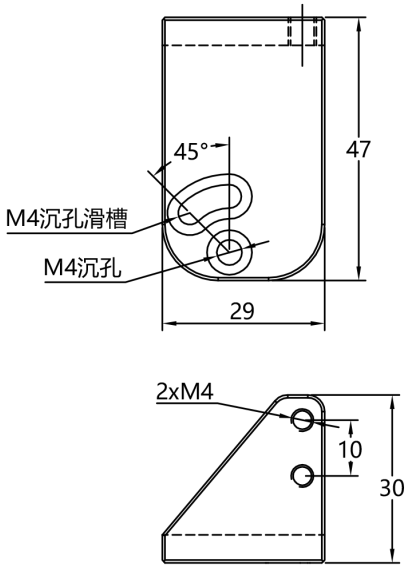
- Can be used to adjust the installation angle of soft finger module **[FM]**.
- Assembling between finger module **[FM]**and slide mounting plate**[SMP]**.



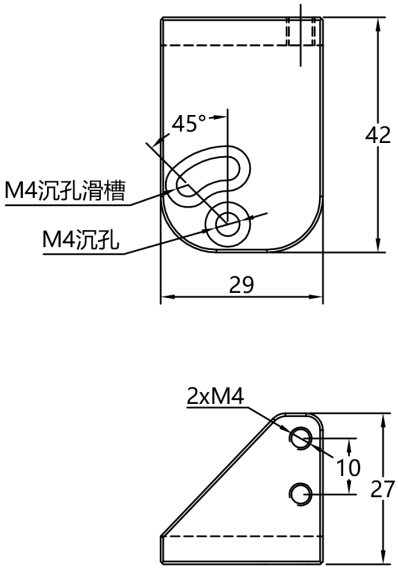




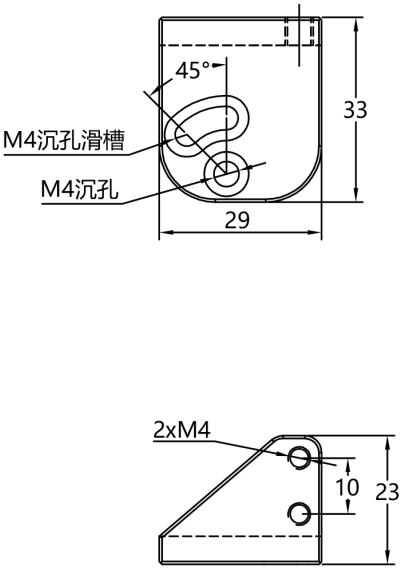
CP-ACA



CP-ACB



CP-ACC



Model	Angle range[°]	Adaptive soft finger module[FM]					Weight [g]
		V1	V2	V3	V4	V5	
CP-ACA	0~45		√	√			22
CP-ACB	0~45		√	√			19
CP-ACC	0~45			√			15

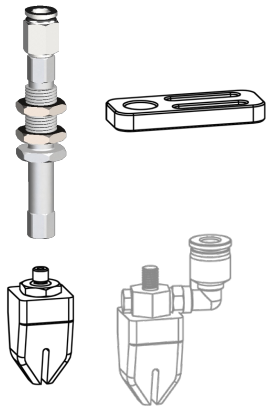
CM

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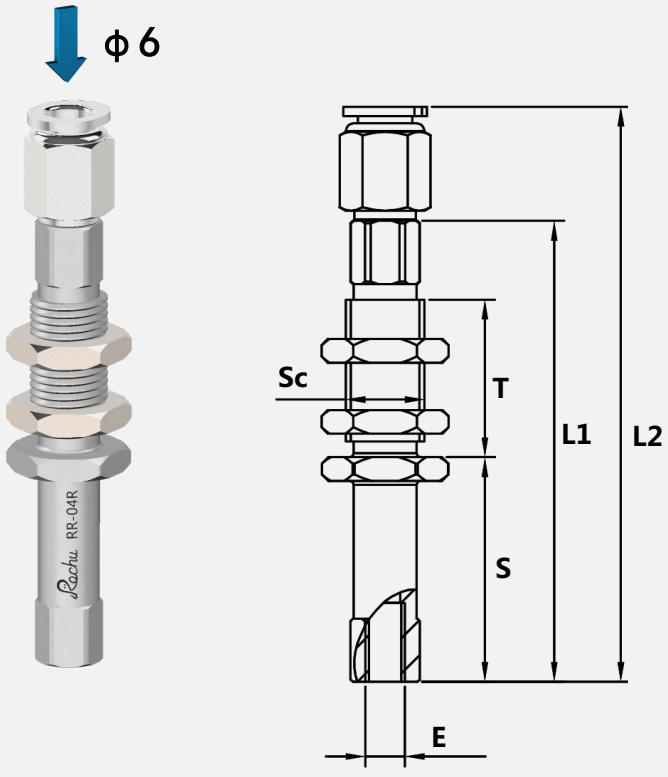
CM -R Soft Beak rigid connection module series



Product features

- Aluminum alloy rigid structure design, can be used for high positioning accuracy scenes.
- Soft Beak Module **[BMC/BML]** can be installed at the end.
- Can be installed with Slide Mounting Plate **[SMP]**.

CM-RM525M5
CM-RM558M5
CM-RG1840G18
CM-RG18128G18



Model	S [mm]	T [mm]	L1 [mm]	L2 [mm]	Weight [g]	E	Sc	Recommend -ed load [g]	SMP Adaptive	Pipe Diameter [mm]	Positioning accuracy [mm]	Rotation accuracy [°]
CM-RM525M5	3	12	25	39.5	11	M5	M10x1	500	Yes	6	**±0.01**	**±0.01**
CM-RM558M5	28.5	20	58	73	17	M5	M10x1	500	Yes	6	**±0.01**	**±0.01**
CM-RG1840G18	9.5	16.5	40	57	33	G1/8	M14x1	1500	No	6	**±0.01**	**±0.01**
CM-RG18128G18	59	47	128	145	58	G1/8	M14x1	1500	No	6	**±0.01**	**±0.01**

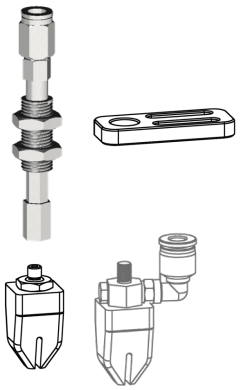
CM

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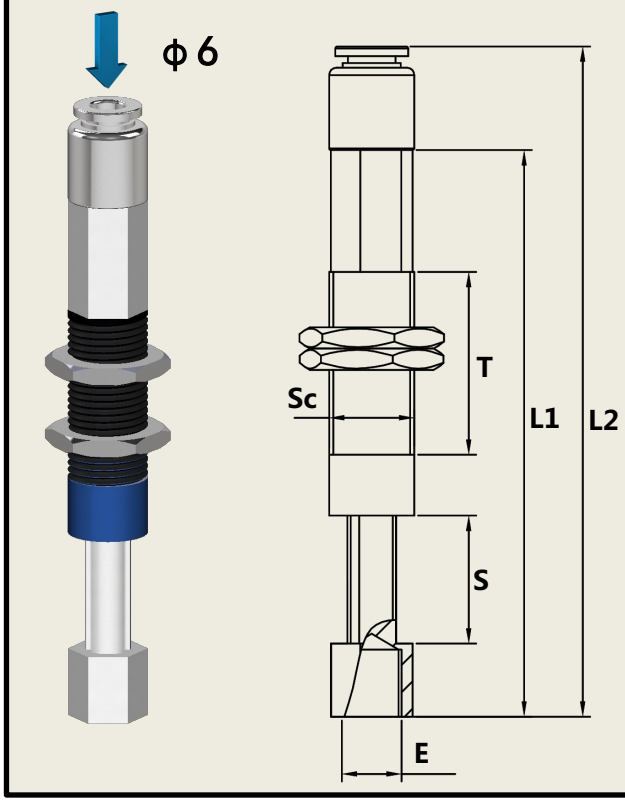
CM -S Soft Beak buffer connection module series



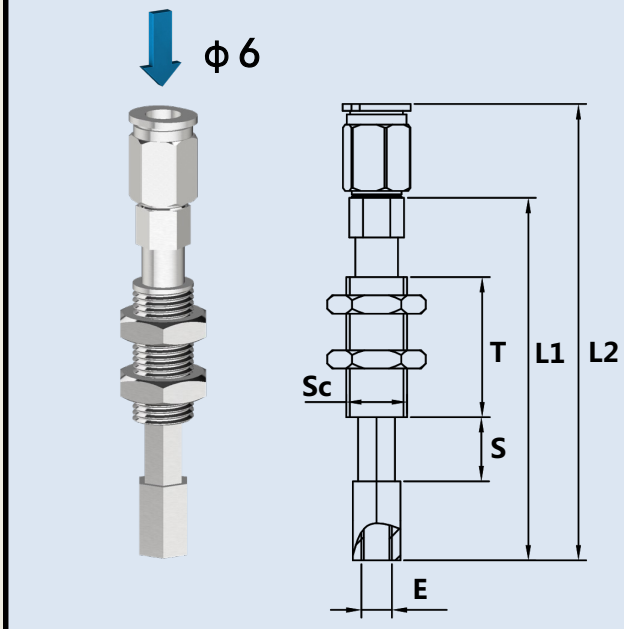
Product features

- It has elastic cushioning function. We do not recommend it to be used in scenarios requiring high Positioning accuracy
- Soft Beak Module **[BMC/BML]** can be installed at the end.
- Some Modesl ca be installed with **Slide Mounting Plate[SMP]**

CM-S01 | **CM-S02**



CM-S04 | **CM-S05** | **CM-S06** | **CM-S07**



Model	S [mm]	T [mm]	L1 [mm]	L2 [mm]	Weight [g]	E	Sc	Elastic buffer force [N]	Recommend -ed Load [g]	SMP Adaptive	Pipe diameter [mm]	Positioning accuracy [mm]	Rotation accuracy [°]
CM-S01	21	30	93	110	38.4	G1/8	M14x1	0~10	800	No	6	±0.5	±3
CM-S02	36	50	128	145	45.4	G1/8	M14x1	0~10	800	No	6	±0.5	±3
CM-S04	10.5	23	58.5	73.9	28	M5	M10x1	0~3	300	Yes	6	±0.5	±3
CM-S05	20	51	96	111.4	43	M5	M10x1	0~3	200	Yes	6	±0.5	±3
CM-S06	30	51	106	121.4	50	M5	M10x1	0~3	200	Yes	6	±0.5	±3
CM-S07	40	77	142	157.4	56	M5	M10x1	0~3	200	Yes	6	±0.5	±3

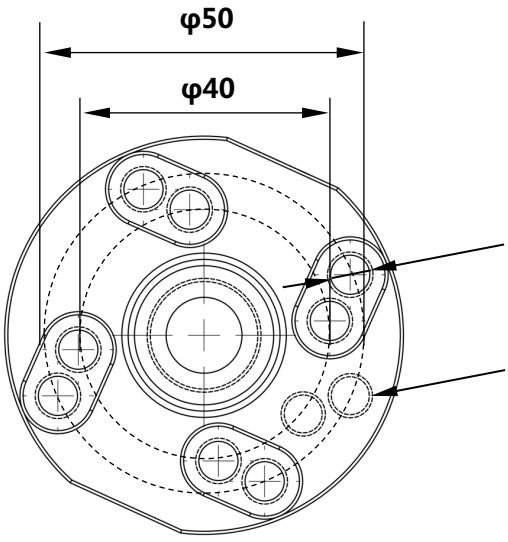
- **Flange connection module [FCM]** is fixed between the robot flange and the **slip mounting plate [SMP].** It can also be connected with **quick change module [QCM**], There are two kinds of **[FCM],** the spring rod type **(S)** and rigid rod type **(R)**.

FCM-S01 Sping rod flange connection module

Product features

- Meet ISO 9409-1:2004 robot flange standard
- Robot connection with the soft beak module [BM], or light soft grippers. The max. loading is 500g.
- Better adaptability in gripping of very different size object .
- For better positioning, pls. use the [FCM] with rigid rod.
- Accessory package (PK-FCMS01) included

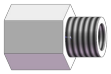




Weight 125g Elastic Force 0~8N

Accessory package
PK-FCMS01

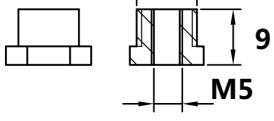

1 x CP-006


1 x CP-007

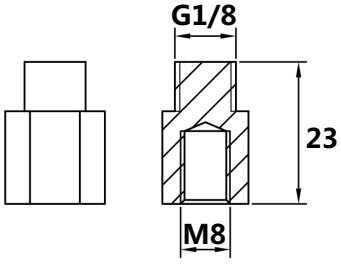

1 x SF-083 (M8x10)


4 x SF-011 (M6x10)

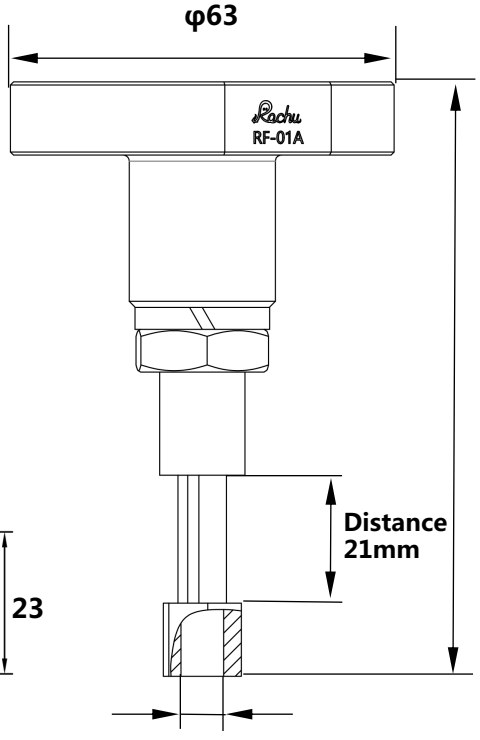

4 x SF-007 (M5x12)



CP-006



CP-007



G1/8

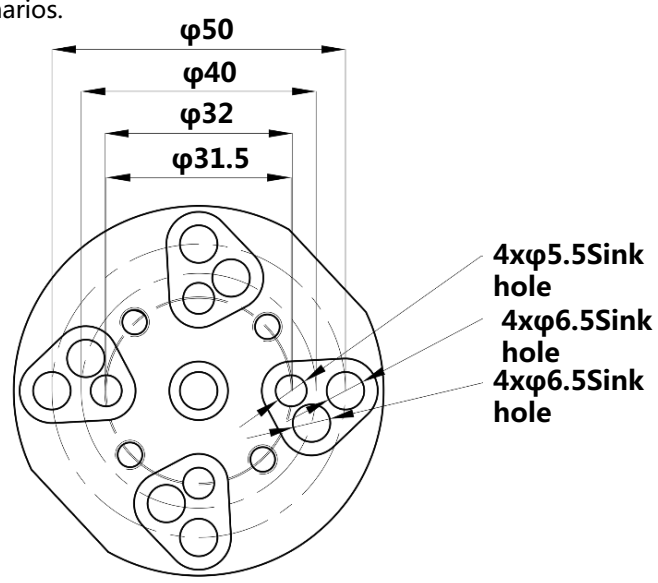
CM

FCM-R(01~05) Fixed rod type flange connection module (light)

Product features

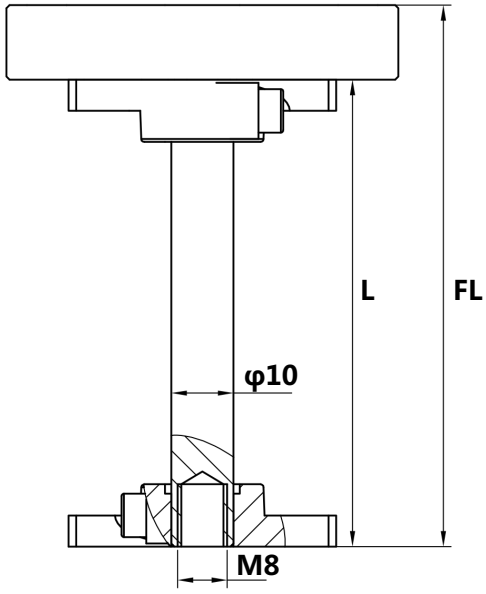
- Conform to ISO 9409-1:2004 standard (GB/T 14468.1-2006/), suitable for most robot flanges in the market.
- Light weight, suitable for lightweight multi-joint robot. Recommended maximum load： 5 kg.
- Can be used for high-precision handling, assembly and other scenarios.
- Different lengths are available.
- Accessory package PK-FCMR01 included.





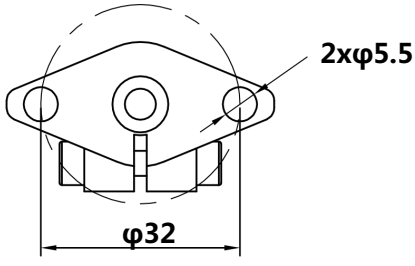
Accessory package PK-FCMR01

- 1 x SF-83 (M8x10)
- 4 x SF-011 (M6x10)
- 6 x SF-007 (M5x12)
- 2 x SF-075 (M4x12)
- 2 x SF-081 (M4)



Lightweight FCM series sizes

Model	Length L[mm]	Overall Length FL [mm]	Weight[g]
FCM-R01	35	42	116
FCM-R02	55	62	113
FCM-R03	75	82	117
FCM-R04	95	102	121
FCM-R05	115	122	165



CM

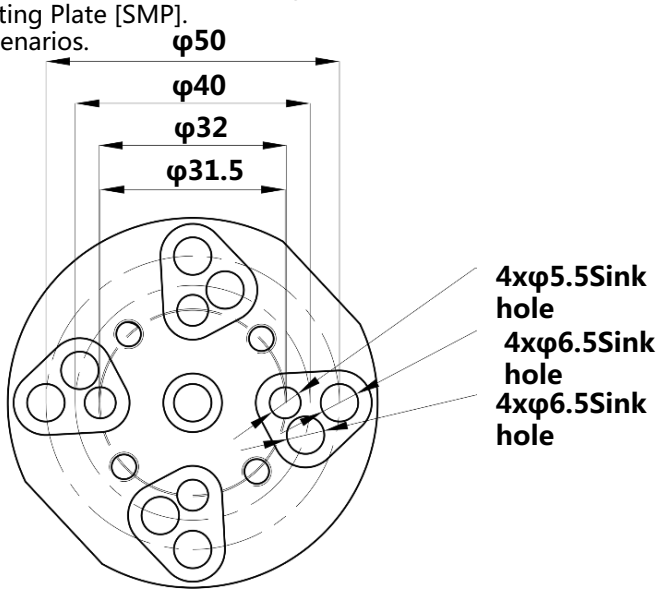
Flange connection

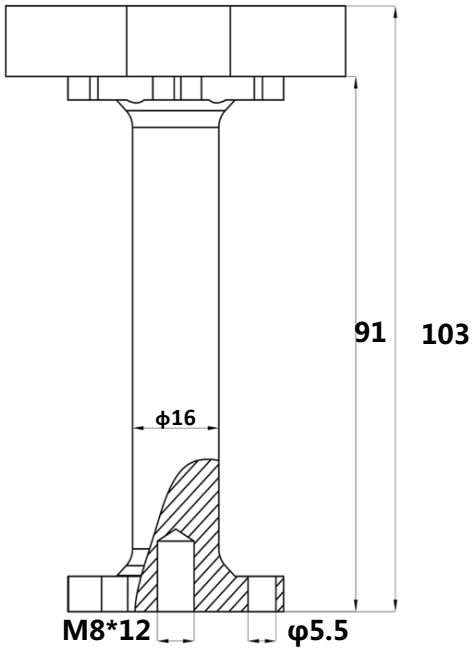
FCM-R08 Fixed rod type flange connection module

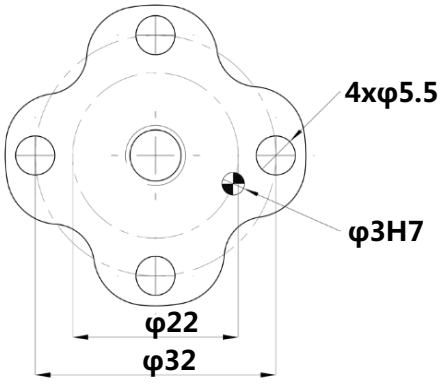
Product features

- Conform to ISO 9409-1:2004 standard (GB/T 14468.1-2006/), suitable for most robot flanges in the market.
- Suitable for non-standard gripper combination and Slide Mounting Plate [SMP].
- Can be used for high-precision handling, assembly and other scenarios.
- Accessory package PK-FCMR08 included.









Weight159g

Accessory package PK-FCMR08

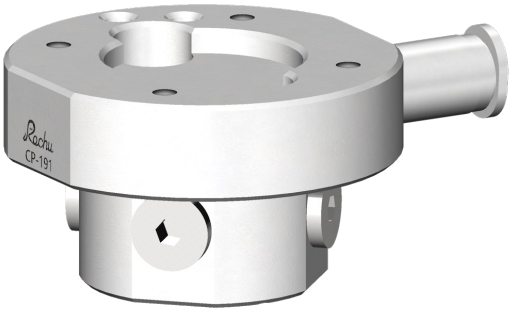
- 1 x SF-83 (M8x10)
- 4 x SF-011 (M6x10)
- 8 x SF-007 (M5x12)
- 2 x SF-076 (M4x14)
- 2 x SF-081 (M4)
- 1 x PIN-01 (φ3x10)

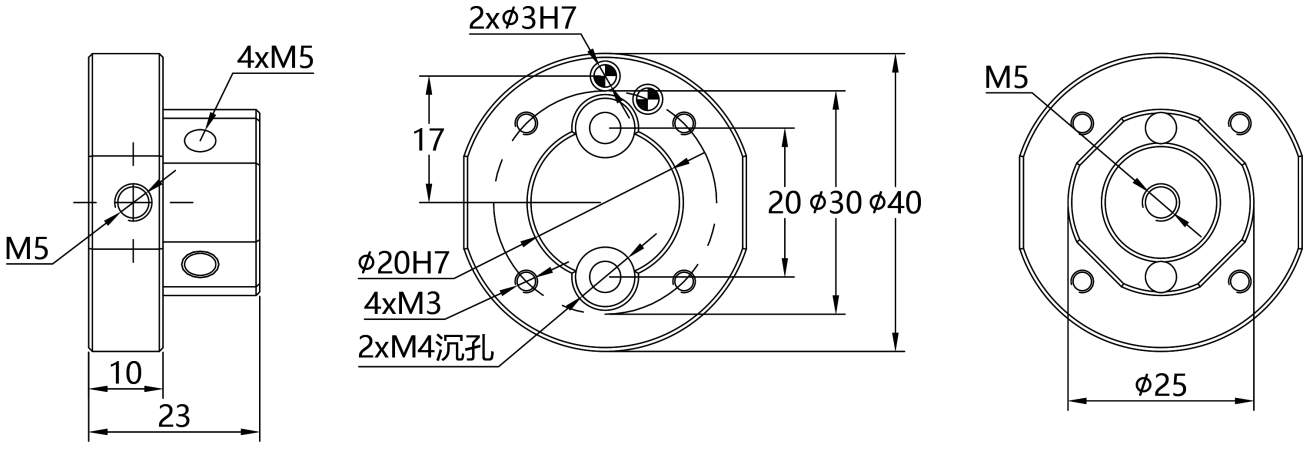
CM

Connector Part

CP-191 Connecting flange

- Internal multi-channel ventilation manipulator adapter flange



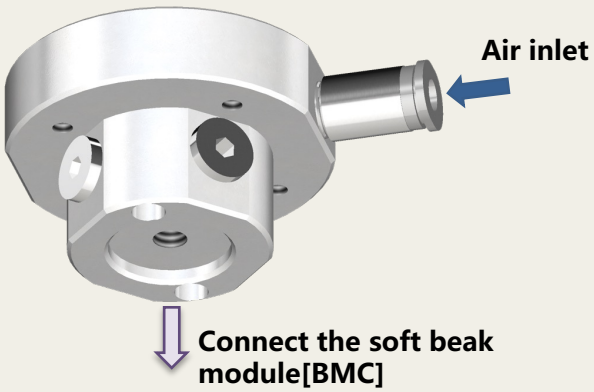


Weight65g

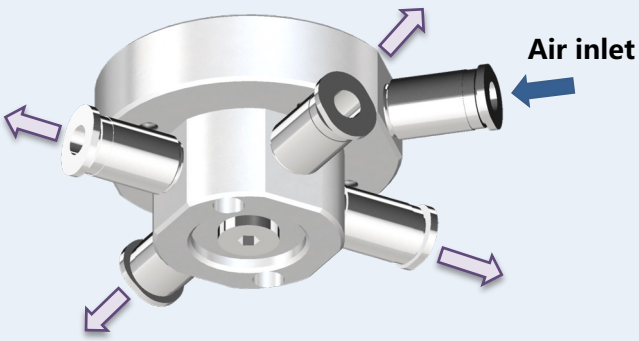
Accessory package PK-CP191

4 x SF-063 (M3x10)	5 x PN-196
2 x SF-165 (M4x22)	4 x PN-268
1 x PIN-01	

Straight Fitting



Side Fitting



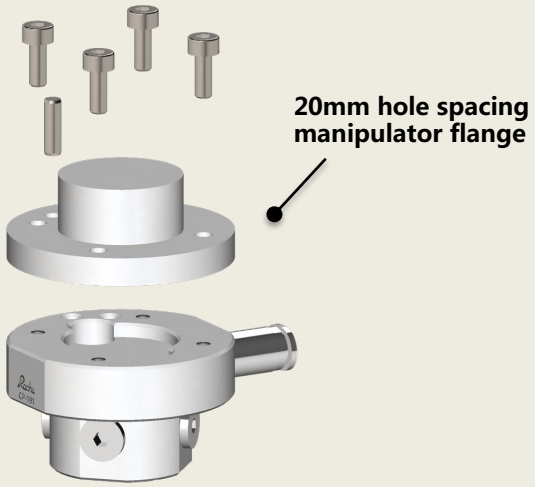
CM

Connector Part

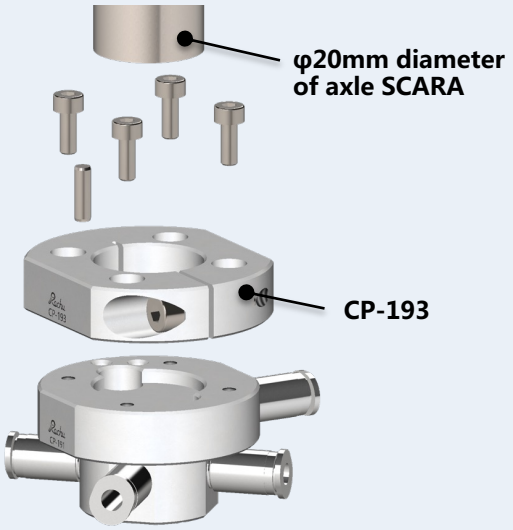
Installation

- Suitable for 20mm hole spacing manipulator flange or φ20mm shaft diameter SCARA manipulator end.
- Assembling **soft beak module [BMC] or Slide Mounting Plate[SMP]**

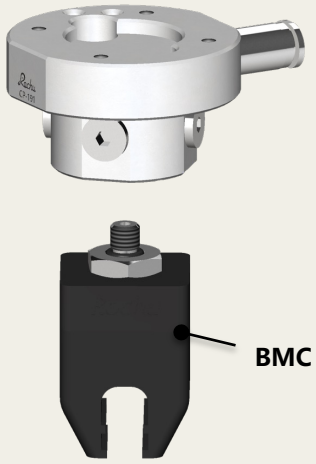
20mm hole spacing manipulator installation



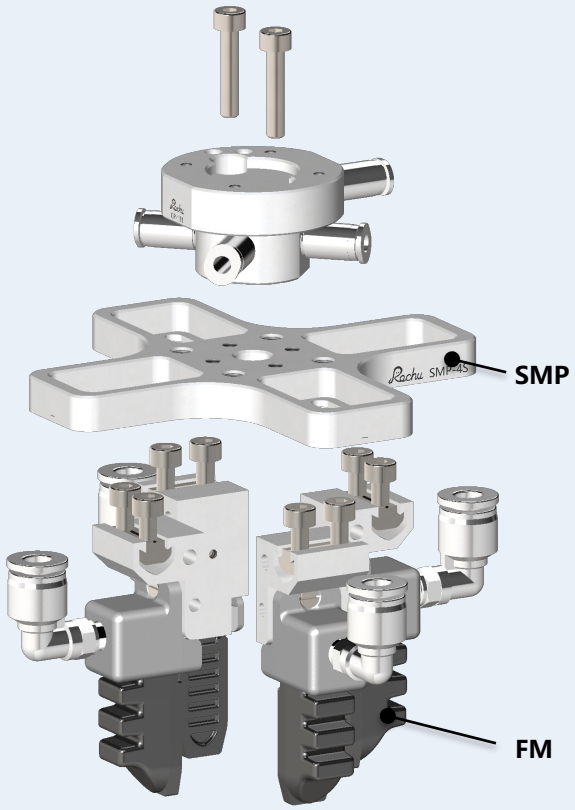
φ20mm shaft diameter SCARA Installation



Soft beak module [BMC] installation



Slide Mounting Plate[SMP]&Soft finger module [FM] installation



CM

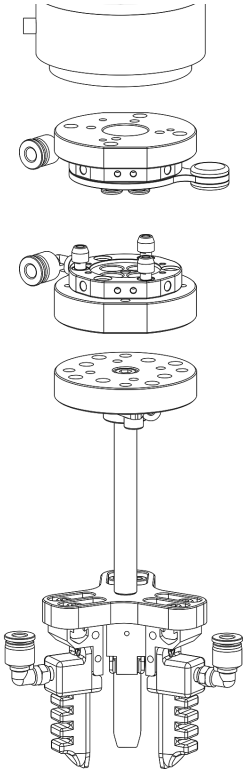
Quick changer Module

Quick change module **[QCM]** is used for quick replacement of gripper.Quick change module **[QCM]** is installed between the flange connection module **[FCM]** and robot flange, which is uncoupled into the robot side (**R side**) and the gripper side (**G side**).

QCM-01 Manual quick change module

Product features

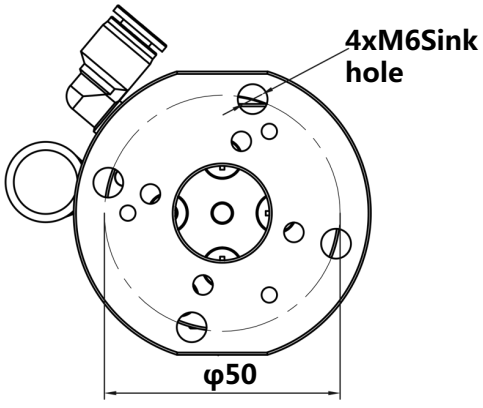
- Conform to ISO 9409-1:2004 (i.e. GB / T 14468.1:2006).
- Manual locking/unlocking.
- Recommended Load 5kg，Vertical tension.



QCM-01R

(R side module, installed at the end of the manipulator)

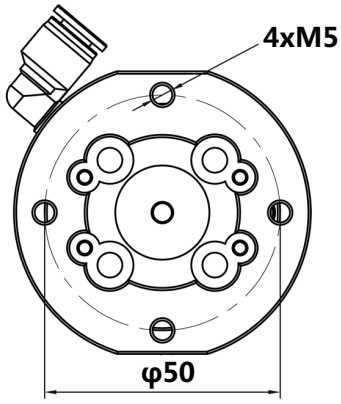




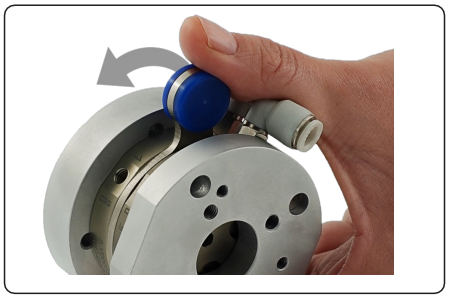
QCM-01G

(G side module, mounted on the gripper end)





Lock Max 2Nm



QCM-01RWeight [g]	146	QCM-01GWeight [g]	135
Vertical tension F	150[N]	Tracheal tube diameter	φ 6mm
Rotary torque Mt	20[Nm]	Recommend-ed Load	5[kg]
Flip torque Mb	10[Nm]		

CM

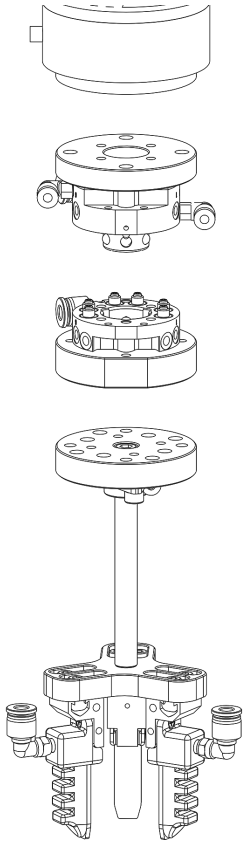
Quick changer Module

Quick change module **[QCM]** is used for quick replacement of gripper.Quick change module **[QCM]** is installed between the flange connection module **[FCM]** and robot flange, which is uncoupled into the robot side (**R side**) and the gripper side (**G side**).

QCM-02 Pneumatic quick change module

Product features

- Conform to ISO 9409-1:2004 (i.e. GB / T 14468.1:2006).
- Pneumatic control, air-out self-locking protection.
- Recommended Load 5kg.

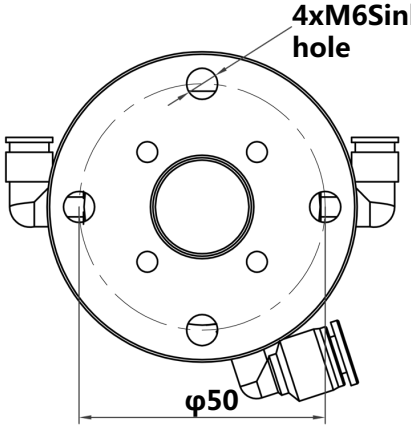


QCM-02R

(R side module, installed at the end of the manipulator)



Weight320g

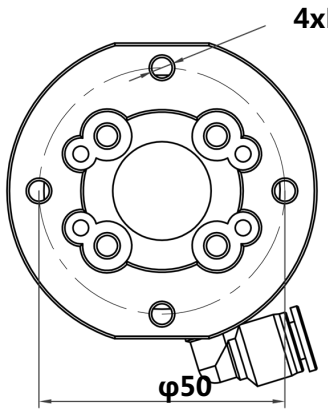


QCM-02G

(G side module, mounted on the gripper end)



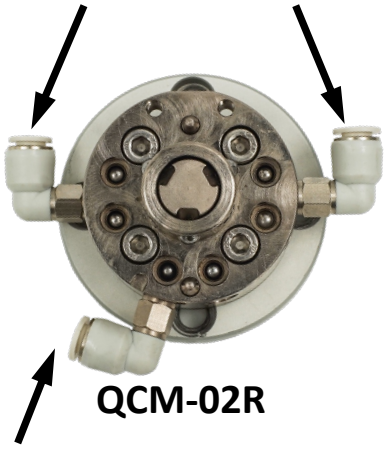
Weight200g



Quick change suction control joint M5+φ6 pipe

Installation/control mode

- Quick change is controlled by pneumatic mode, similar to cylinder control mode, can be controlled by CV-SV series switch valve.
- The R side pipe connector is connected to the Rochu controller
- The pipe connector on the G side is connected to the gripper
- Note: When installing the R-side flange module, you need to install the flange piece with Robotic Arm first and then connect the quick switch to the flange piece



QCM-02R

Controller pipe connector M5+φ6 pipe



QCM-02G

Gripper pipe joint M5+φ6 pipe

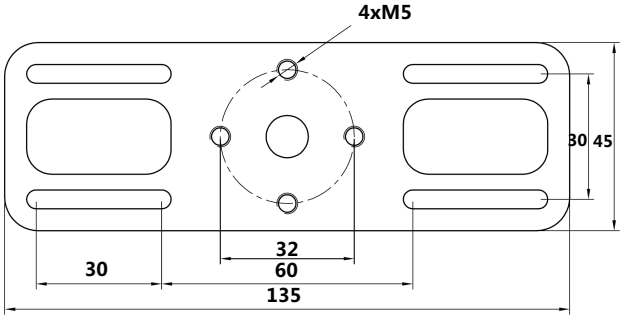
CM

Connector Part

CP-04 Connector Part

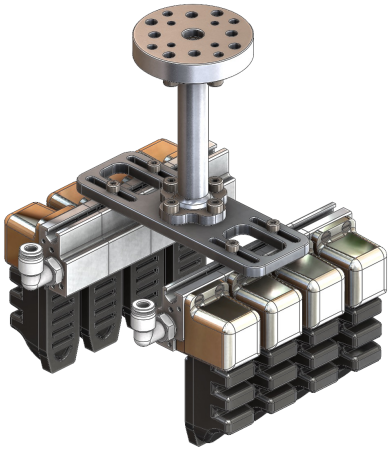
- Assembling **Finger Module[FM]**or aluminum profile **[P]**.
- Accessory package (PK-CP04) included.

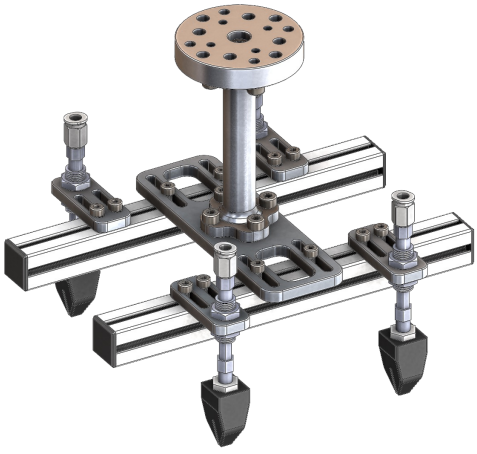




Weight65g

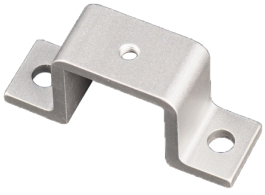
Accessory package PK-CP04
- 4 x SF-081 (M4)
- 4 x SF-076 (M4x14)

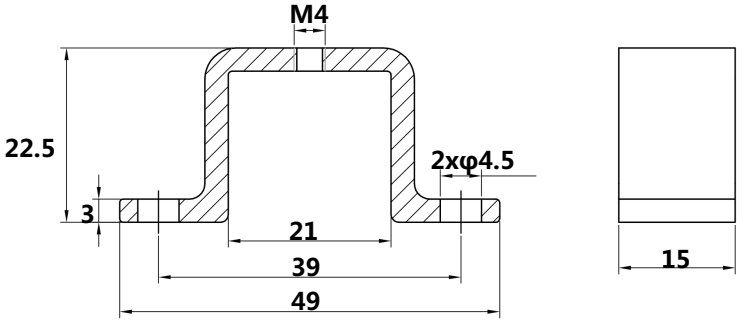




CP-01 Connector Part

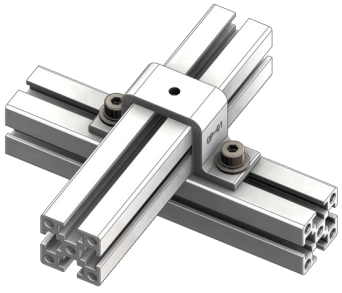
- Profile **[P]** cross fixed arch mounting bracket
- Accessory package (PK-CP01) included.





Weight10g

Accessory package PK-CP01
- 2 x SF-081 (M4)
- 2 x SF-075 (M4x12)



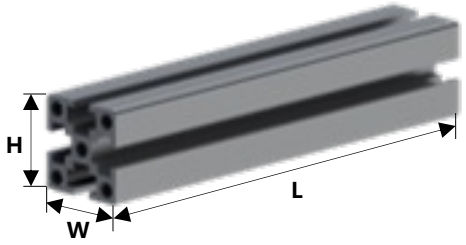
CM

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Profile



Model	Length L [mm]	Width W [mm]	Height H [mm]	Weight [g]
P-20100	100	20	20	47
P-20150	150	20	20	70.5
P-20200	200	20	20	94
P-20300	300	20	20	141
P-20400	400	20	20	188
P-20500	500	20	20	235

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