



**Rochu<sup>®</sup>**

Give Your Robot a Soft Hand

Catalog

Version 2.9

Suzhou Rochu Robotics Co.,Ltd.



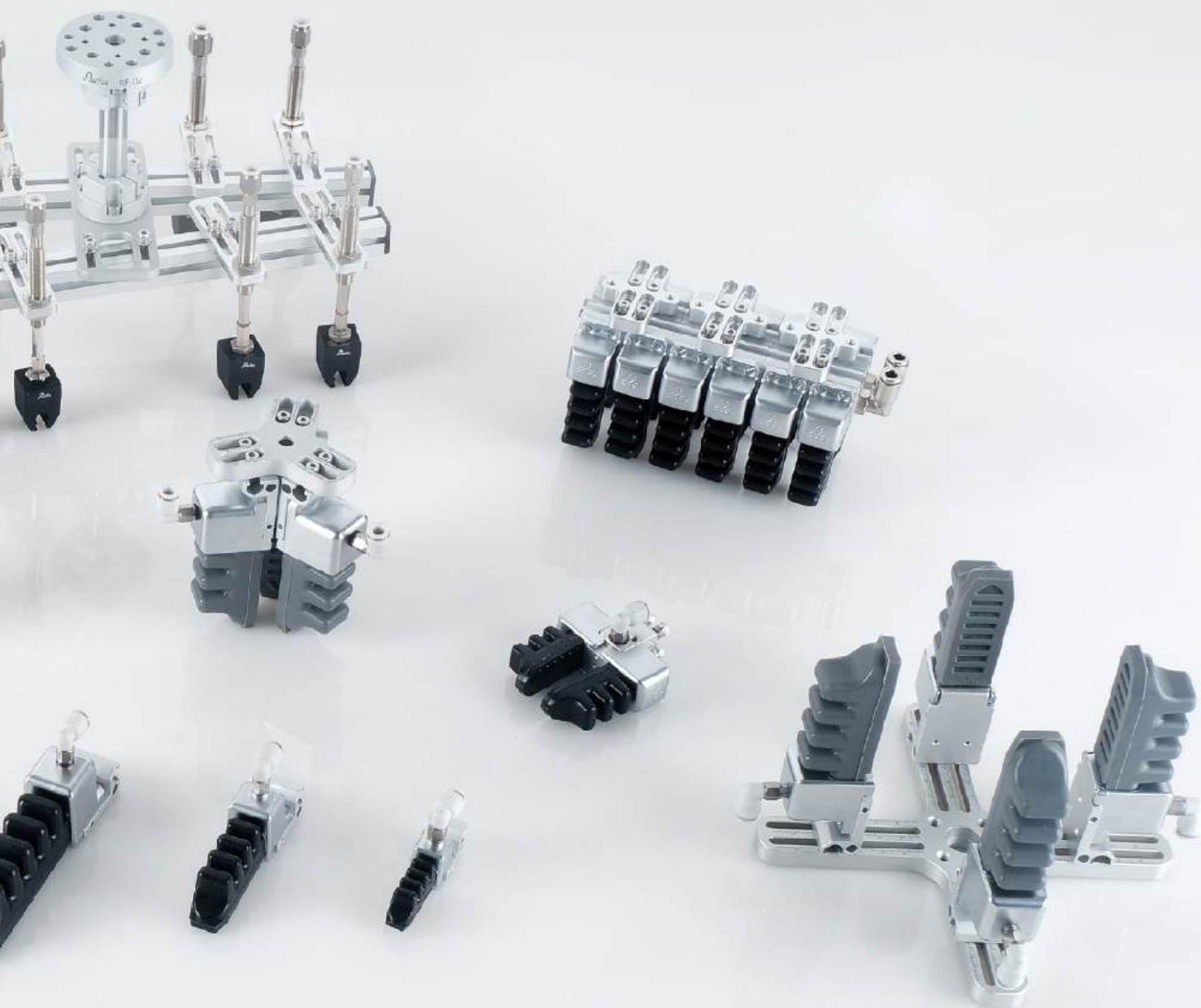
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**Customizable**



**Online service and  
free3D-CAD-models download**



**Fast** counsel and delivery



**Reliable** and good quality



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 m<sup>2</sup> factory has obtained the ISO9001 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 United States, and other countries. In addition to China, we have customers from Japan, South Korea, India, Germany, France, the United 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](http://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.

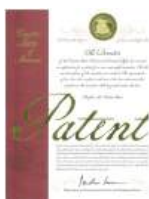
# Honor and qualification



1935/2004/EC



## Patents



## Partners



# Product Advantages



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## Soft

- 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,  $\pm 0.05\text{mm}$  precision, millions of times service life, 9kg maximum load, good chemical and temperature resistance**.



## Safe



- 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.



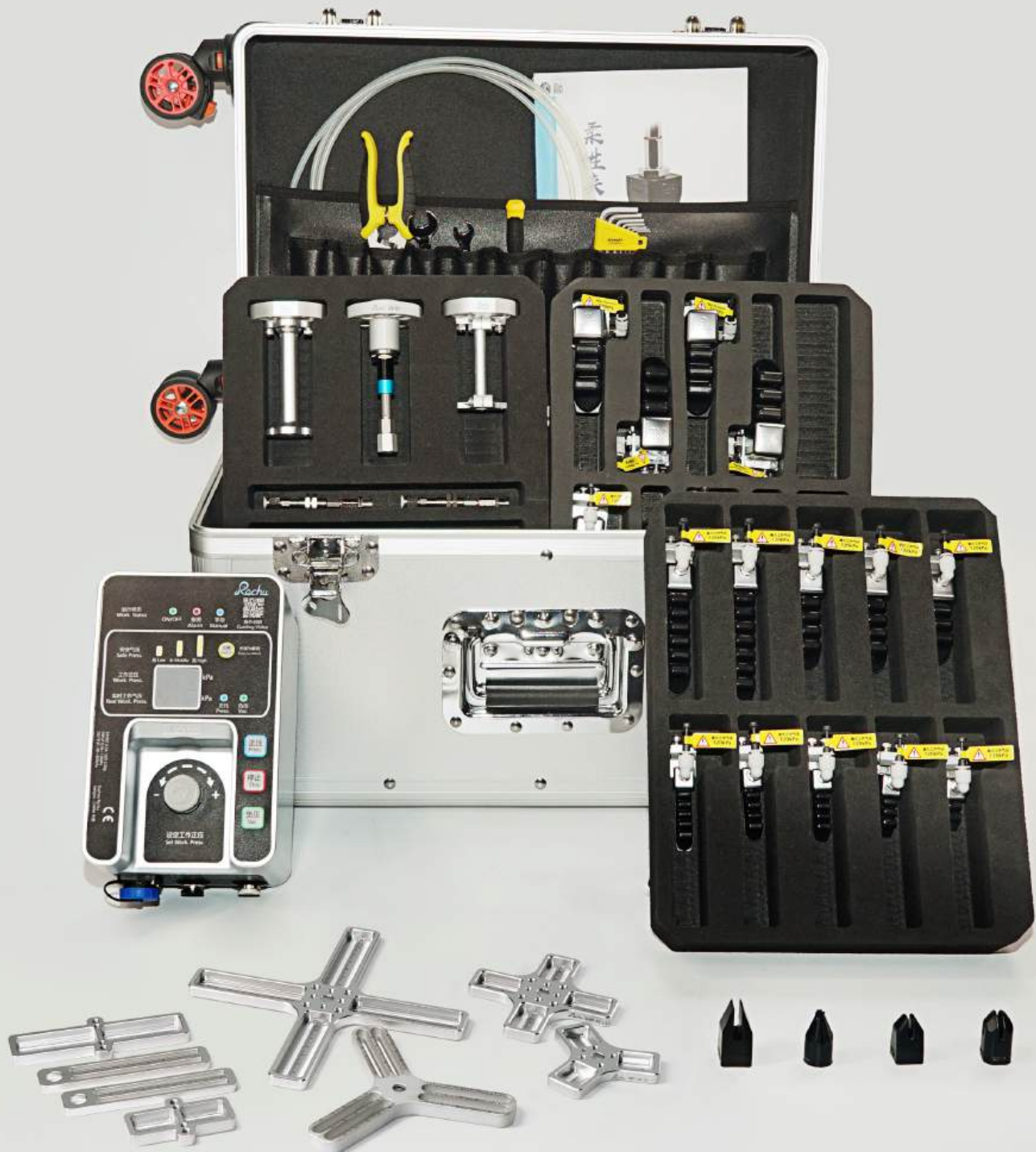
## Easy



- 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



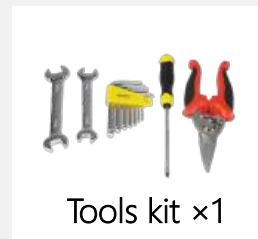
## **DK** Rochu Development Kit

- 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



### Applications



# Applications



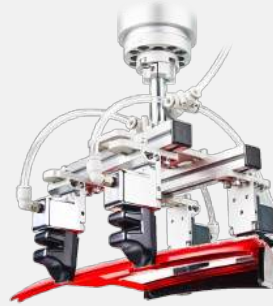
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The movement of the Rochu grippers is inspired by the tentacles of the octopus, which can softly wrap the object without damaging the object or leaving scratches on its surface. The grippers can be widely used in auto parts, 3C electronics, food, medical, 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.



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## 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.



*Rochu* 柔融

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

## Material safety performance



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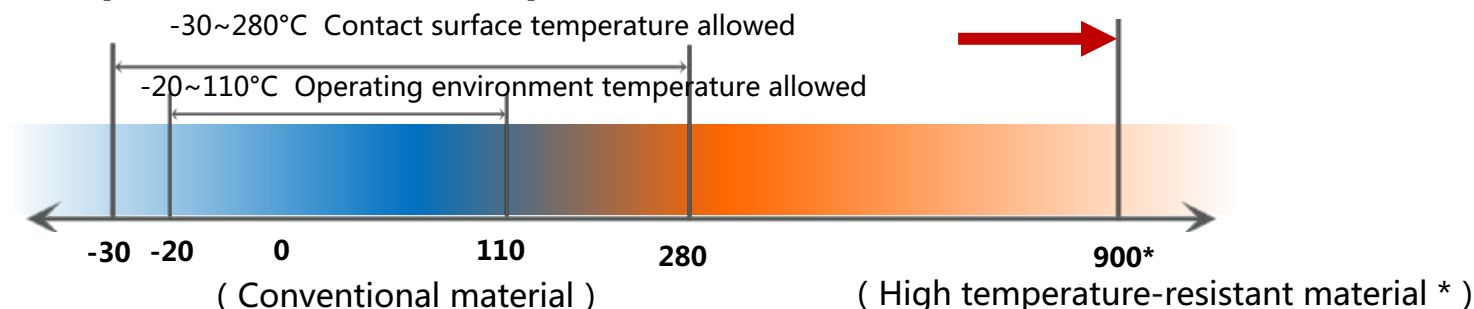


FDA Certification

1935/2004/EC Regulation

RoHS Certification

## Temperature resistance performance



\* : 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	$10^6 \sim 10^9$	$> 10^{10}$

# General Index

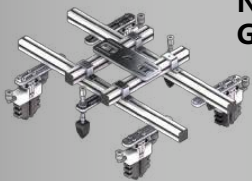
## GC

Gripper Combination



**Standard GC**

*page. 17*



**Non-standard GC**

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**3C Electronics Parts Applications**

*page. 21*



**Automobile Parts Applications**

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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



**Finger Module A**

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**Finger Module B**

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**Finger Module C**

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# General Index

## CU

Control Unit



### iPCU2

Integrated Passive Control Unit

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### ACU2-B

Active Control Unit

*page. 450*



### ACU2-H

Active Control Unit

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### PCU2

Passive Control Unit

*page. 455*



### LCU-H

Light Control Unit

*page. 460*

## 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*

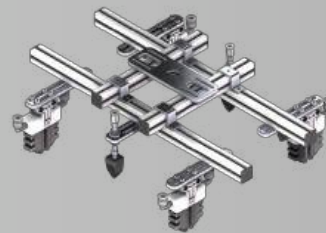
Profile

# 1

## GC Gripper Combination



Standard GC



Non-standard GC



3C Electronics Parts  
Applications



Automobile  
Parts  
Applications



Fabric  
Applications



Food  
Industry  
Applications

# Gripper Combination



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## 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).

GC



## 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

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**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 **[FCM]**, the spring rod type (**S**) and the rigid rod type (**R**).

## SMP

### Slide Mounting Plate

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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



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

①

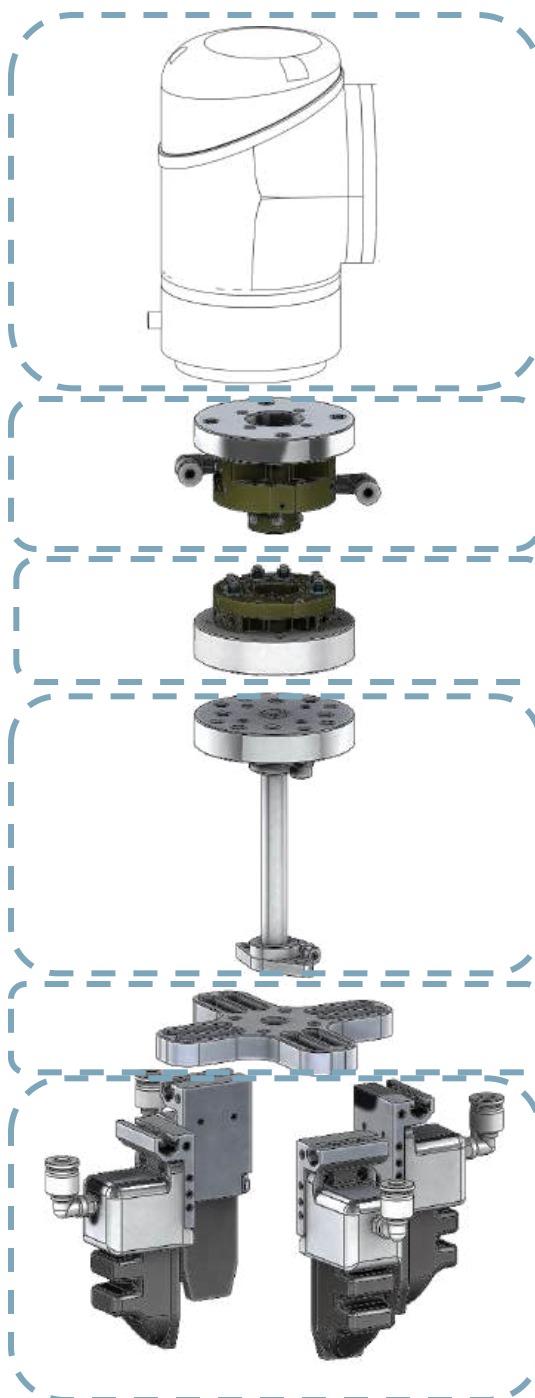
②

③

④

⑤

GC



Cobot Arm

⑤ Quick Changer Module  
QCM-02R  
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④ Quick Changer Module  
QCM-02G  
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③ Flange Connection  
Module  
FCM-R04  
page. 74

② Slide Mounting Plate  
SMP-4S  
page. 71

① Finger Module  
4 x FM-A3V5/LS1  
page. 64

# Gripper Combination

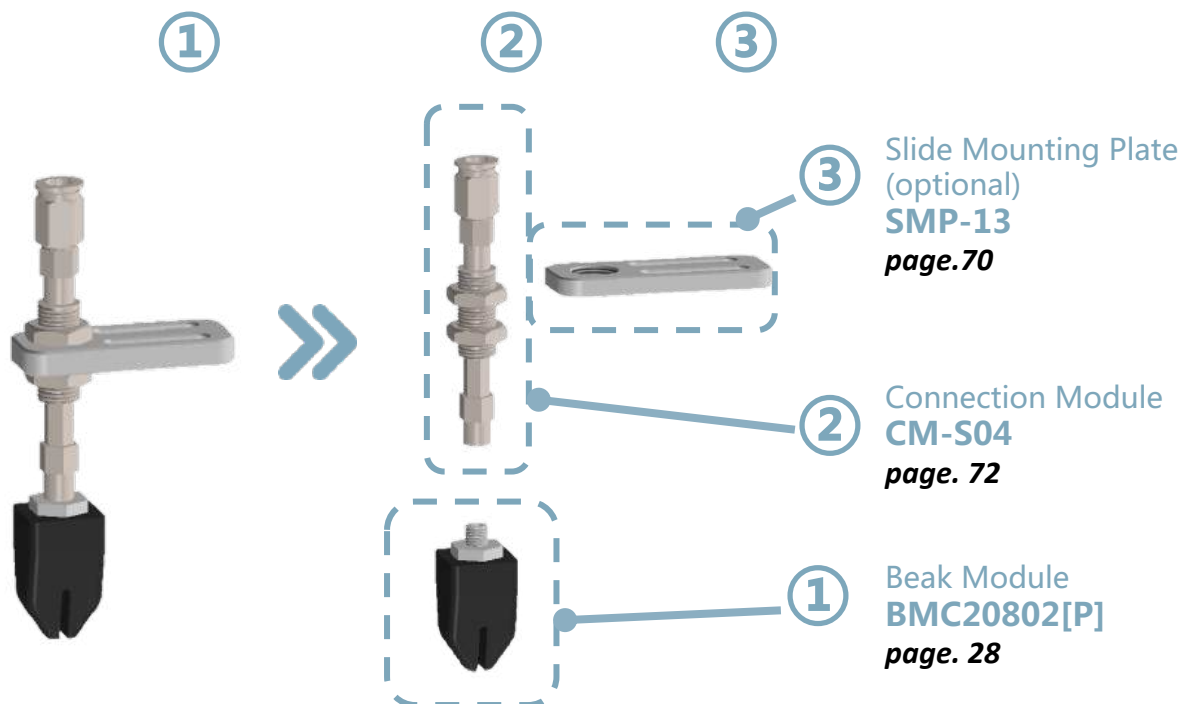
## Encoding Method of standard Gripper Combination



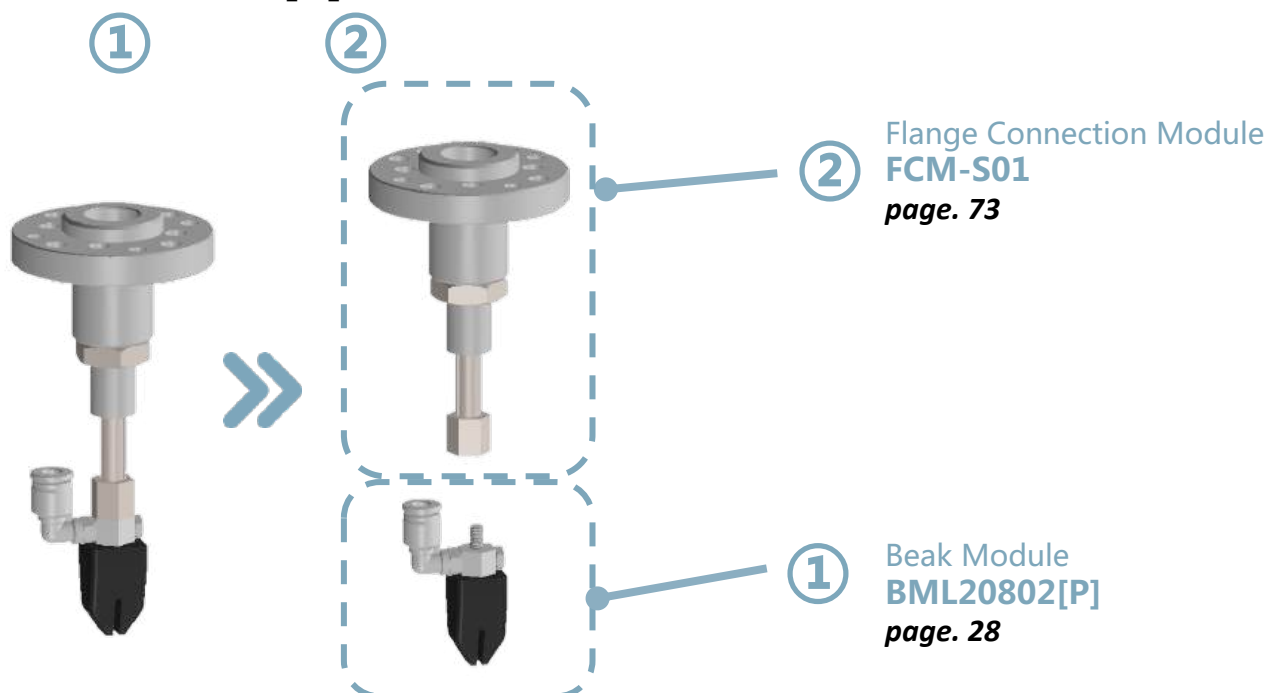
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**Standard Rochu beak gripper combination [GC]** can be combined in the following order,  
1. Soft beak module [BM], 2. Connection module [FCM] / [CM], 3. Sliding mounting plate [SMP] (optional).

### GC – BMC20802[P] – CMS04 – SMP13



### GC – BML20802[P] – FCMS01





# Gripper Combination



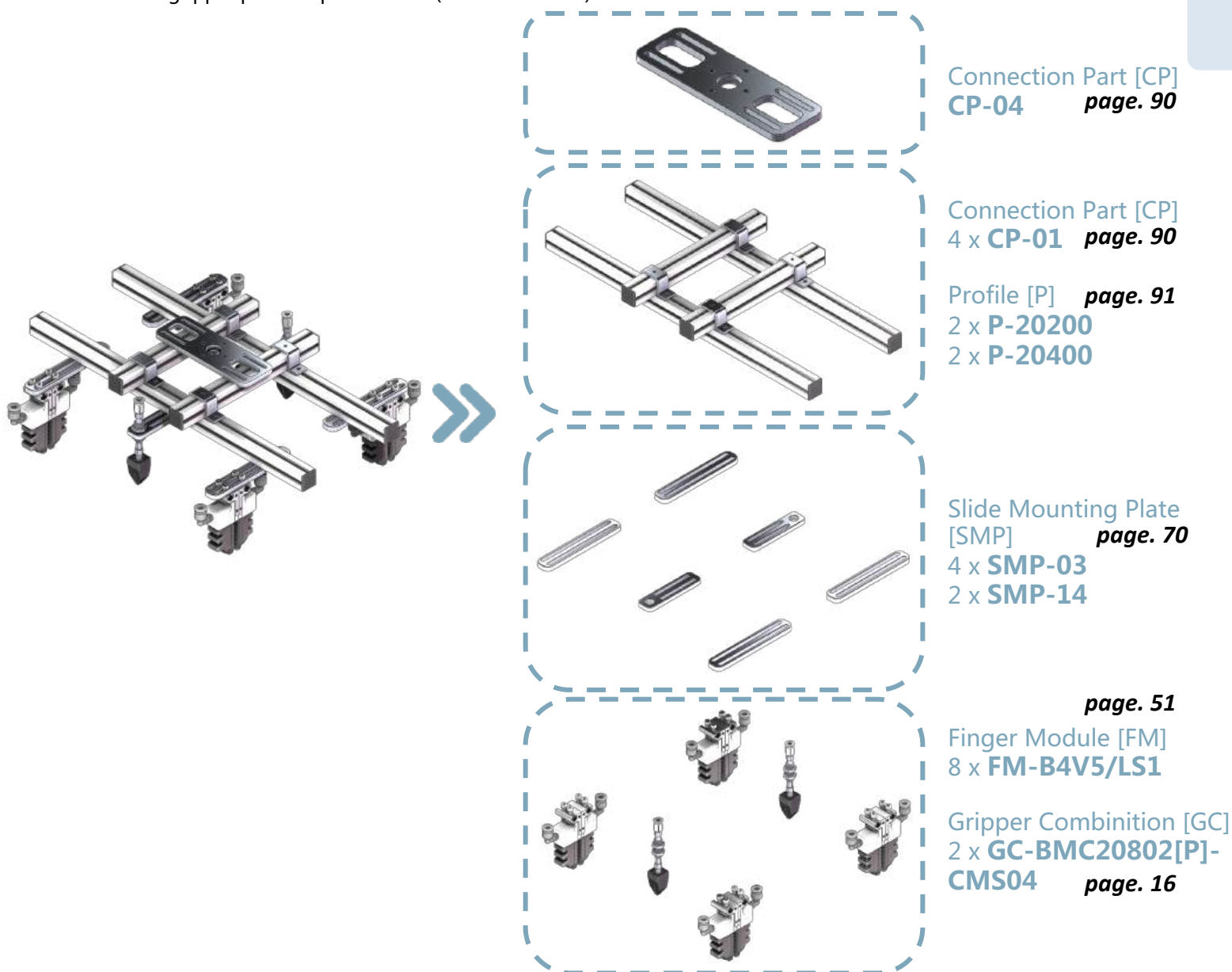
Scan to watch videos

GC

## Non-standard Gripper Combination

### 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.



### BOM List

Product Name	Product code	Quantity
Connection Part	CP-04	1
Connection 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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## 3C Electronics Parts Applications:

- Gripper combination for flat parts

GC



**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**



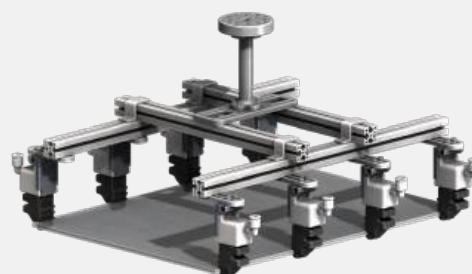
**Standard Gripper Combination:**  
**GC-4FMC3V5/LS1-SMP4L**



**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



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## 3C Electronics Parts Applications :

- Soft beak for micro and small parts



**IPC2-SMN**

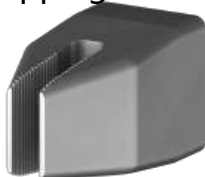














**Integrated Passive Control Unit – Standard Model\***

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**GC – BMC20006[P] – CMS04**

\* : 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.

<p>Flat piece parallel clipping</p>  <p>Beak : B-20005V</p>  	<p>Hole outward support</p>  <p>Beak : B-3B18</p>  	<p>Cylindrical workpiece longitudinal plugging</p>  <p>Beak : B-4B18</p>  	<p>Flat piece longitudinal plugging</p>  <p>Beak : B-20802</p>  	<p>Rod-shaped objects Horizontal grasping</p>  <p>Beak : B-20006</p>  
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# Gripper Combination

## Automobile Parts Applications

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



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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

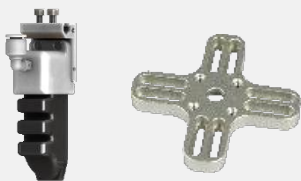
### IPC2-SMN

**Integrated Passive Control Unit – Standard Model\***

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

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## Gripper Combination Plans



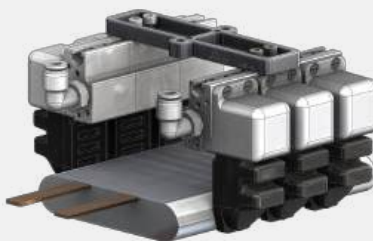
**Finger Module: FM-A4V5/FS3**  
**Slide Mounting Plate: SMP-4S**



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



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



**Standard Gripper Combination:**  
**GC-6FMA3V4/LS1-SMP2L**



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



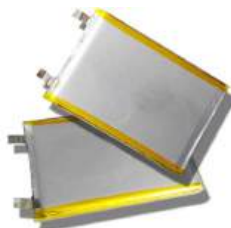
**Standard Gripper Combination:**  
**GC-8FMA4V4/LS1-3SMP2S**



**Car Headlight**



**Bearing**



**Soft Pack Battery**



**Seat Slide**



**Seat Headrest**



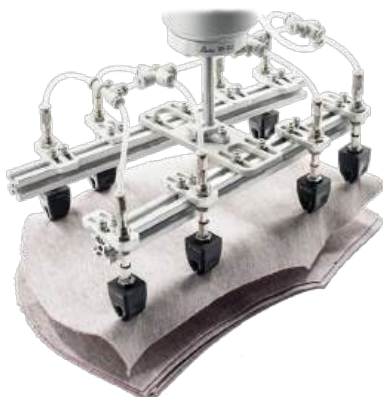
# Gripper Combination



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## 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.



GC

### Customized gripper combination:

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

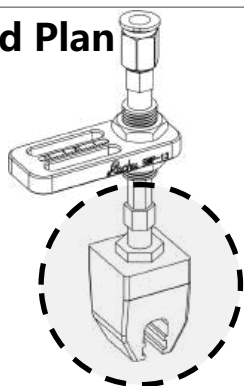
Note: For large soft fabric layers (e.g. T-shirts, sweatshirts, etc.), it is recommended to install multiple independent soft beak grippers at intervals along the edge of the fabric.

### Customized gripper combination:

BOM List		
Product Name	Product code	Quantity
Gripper Combination	GC -BMC20006[PJ]-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[PJ]-CMS04-SMP13

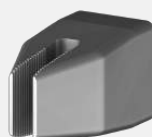


**iPCU2-SMN** *page. 79*  
**Integrated Passive Control Unit – Standard Model\***  
 \*: For other Control Units, see page. 402.

### Soft Beak Options\*\*



**B-20006**



**B-20005V**



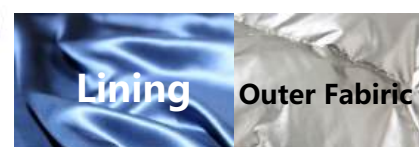
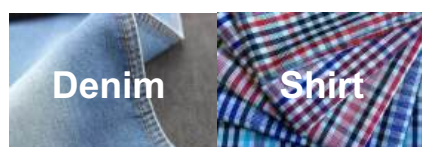
**B-20802**



**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



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## 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**

Integrated Passive Control Unit – Standard Model\*

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\*: 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



**Carpet**



**Canvas**



**Towel**



**Wristband**



**Wollen Clothes**

# Gripper Combination



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## Food Industry Applications

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



GC

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

<p><b>Finger Module: FM-B3V5/LS1</b> <b>Slide Mounting Plate: SMP-3S</b></p> <p><b>GC-3FMB3V5/LS1-SMP3S</b></p>	<p><b>Finger Module: FM-A5V5/LS1</b> <b>Slide Mounting Plate: SMP-4S</b></p> <p><b>GC-4FMA5V5/LS1-SMP4S</b></p>	<p><b>Finger Module: FM-A5V5/LS1</b> <b>Slide Mounting Plate: SMP-4L</b></p> <p><b>GC-4FMA5V5/LS1-SMP4L</b></p>
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# Gripper Combination



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## Food Industry Applications

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

GC



**GC-6FMA3V4/LS1-CP04-FCMR02**

**iPCU2-HMN**

**Integrated Passive Control Unit – High-speed model\***

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\*: 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 Module: 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**












































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

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









































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

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



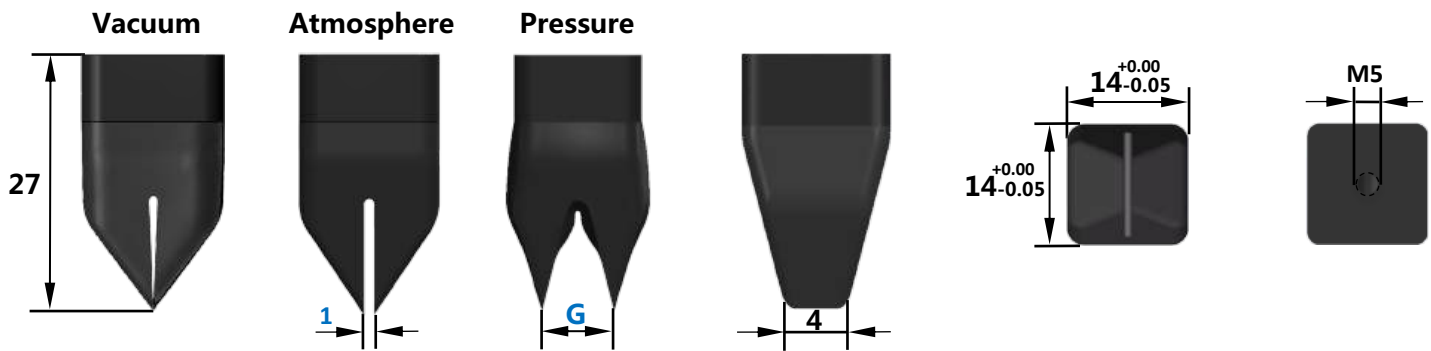
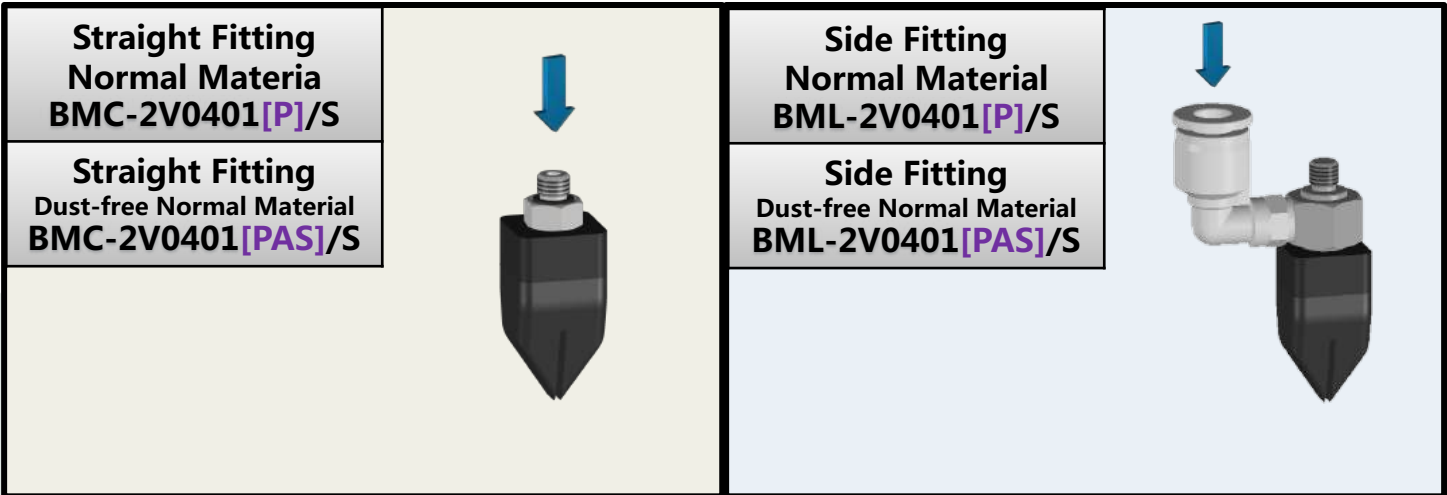
		 <i>page. 92</i>
BMC-4B18[P]	BML-4B18[P]	B-4B18[P]
		 <i>page. 94</i>
BMC-4B18[P]/S	BML-4B18[P]/S	B-4B18[P]/S
		 <i>page. 96</i>
BMC-4A24[H]/S	BML-4A24[H]/S	B-4A24[H]/S
		 <i>page. 98</i>
BMC-4A30[P]/M	BML-4A30[P]/M	B-4A30[P]/M
		 <i>page. 100</i>
BMC-4B30[H]/S	BML-4B30[H]/S	B-4B30[H]/S
		 <i>page. 102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

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

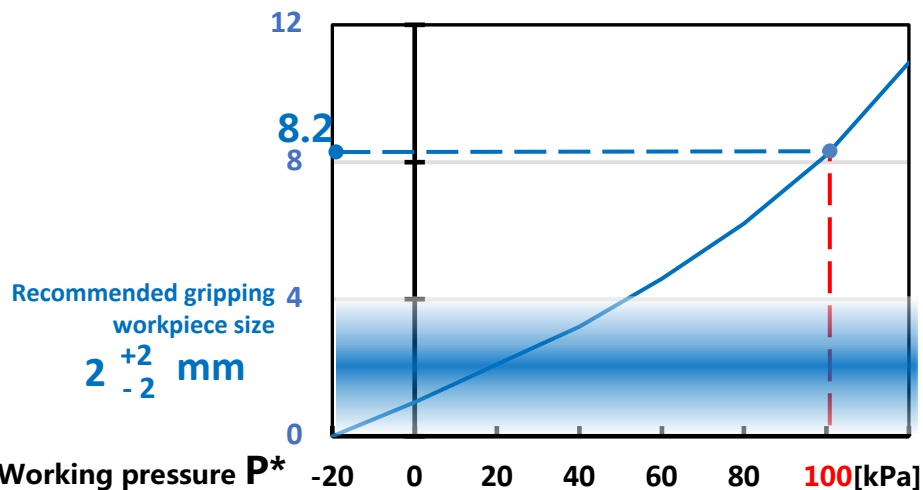


## Product features

- 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.



Gripping fingertip distance **G** [mm]



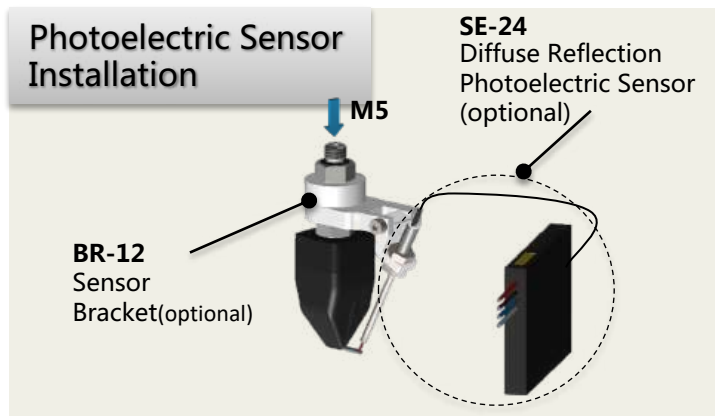
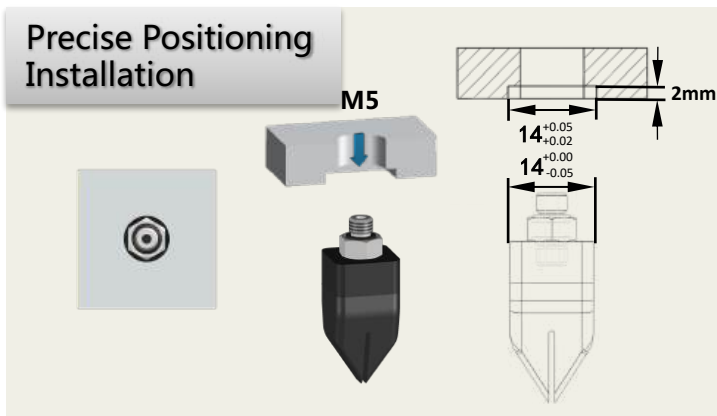
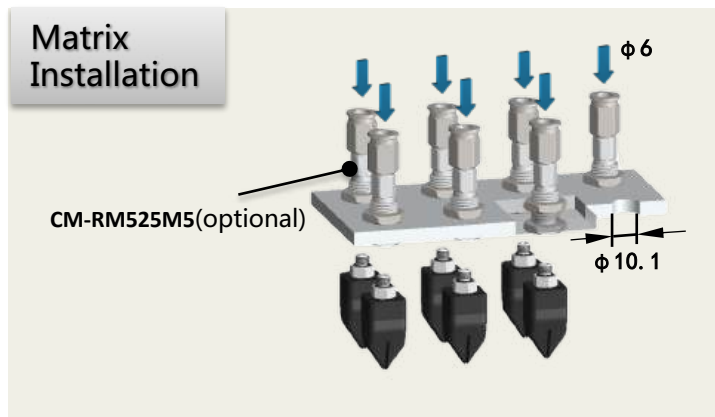
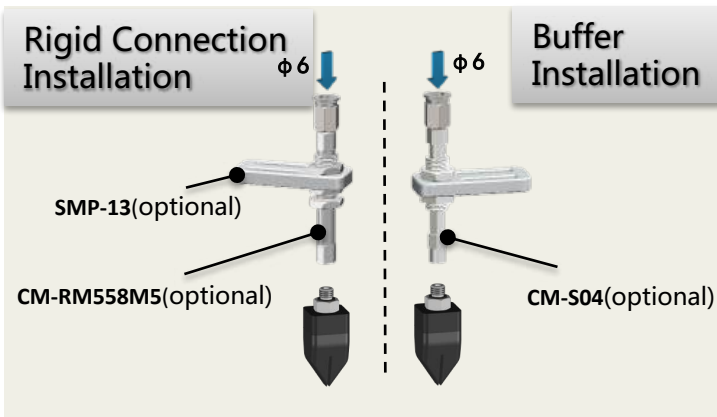
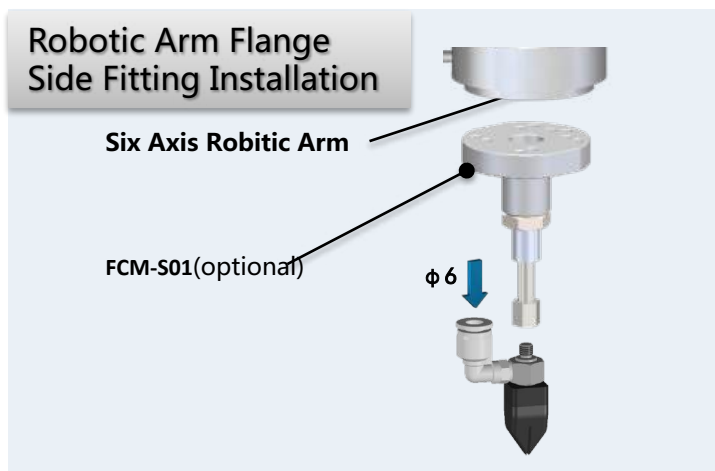
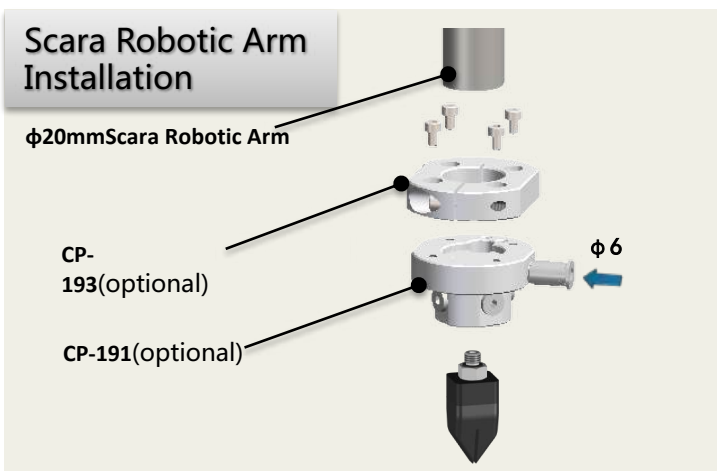
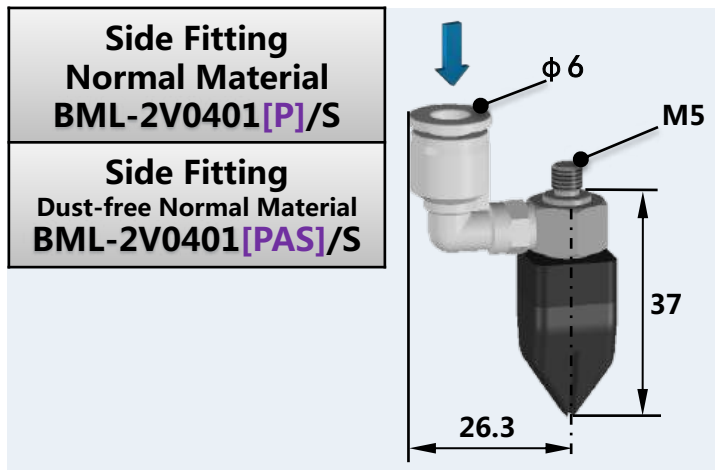
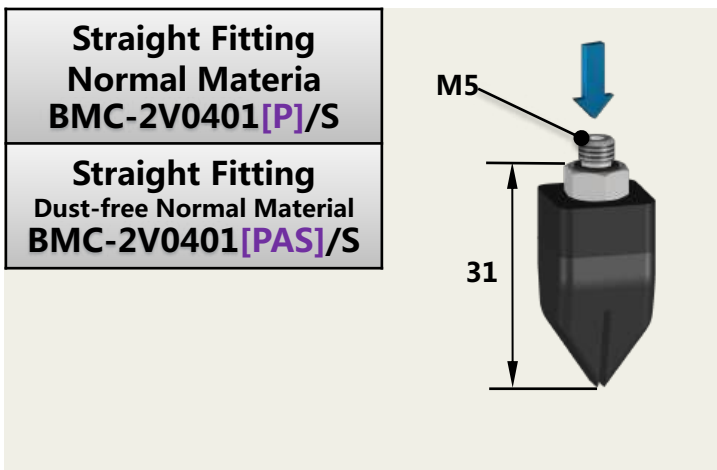
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	25g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.25N	Internal gripping force	x	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.



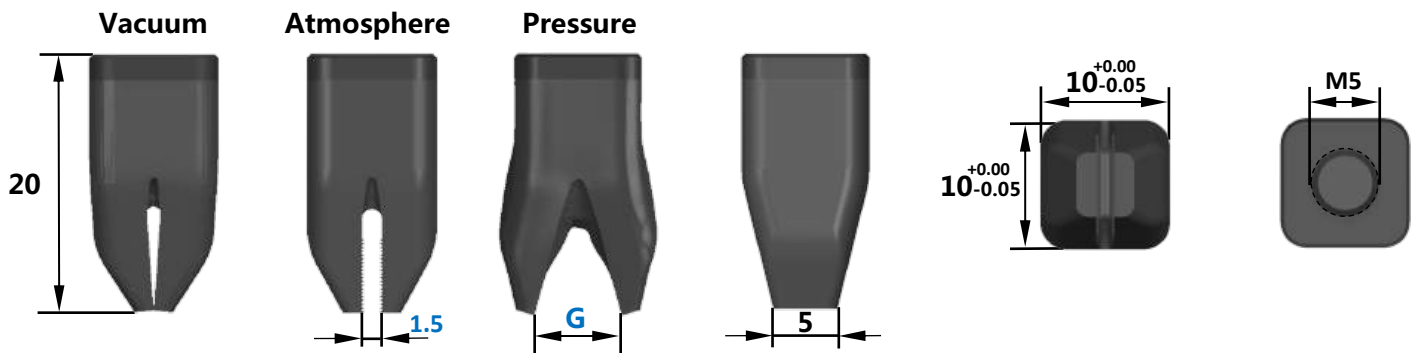
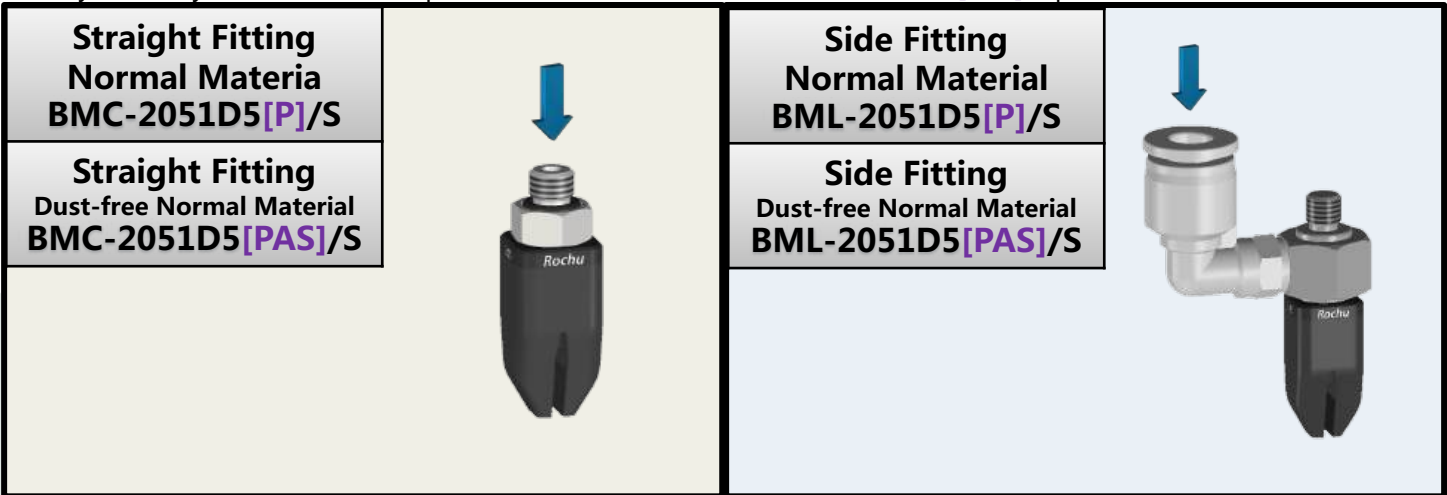
## Installation



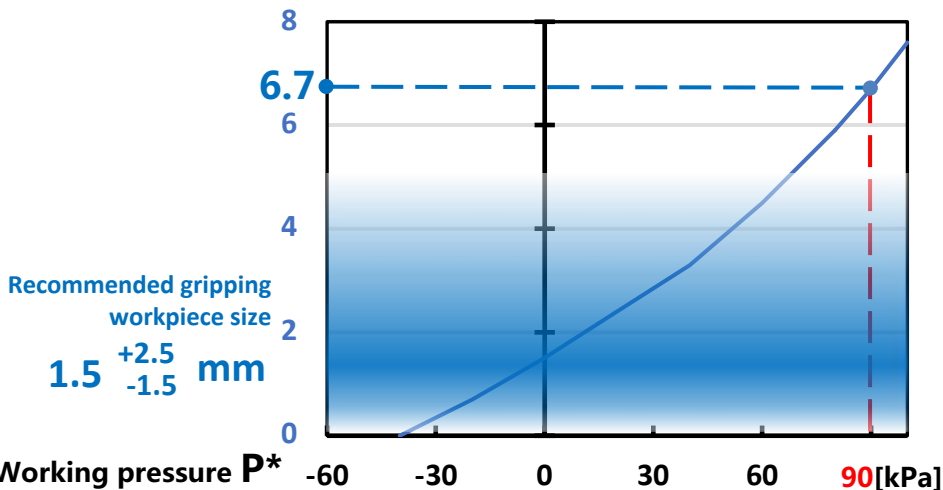


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Gripping fingertip distance **G** [mm]



## Parameter

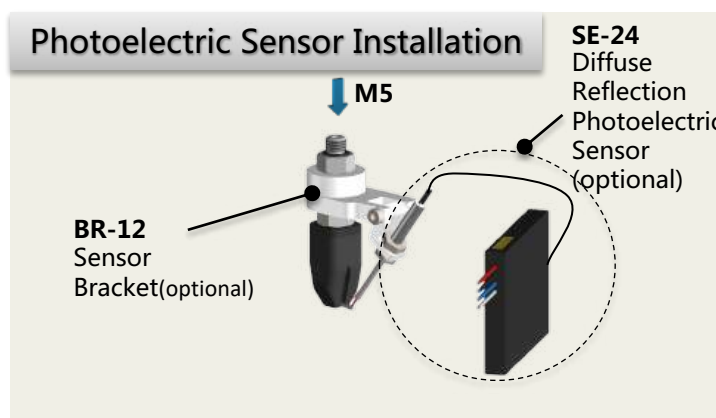
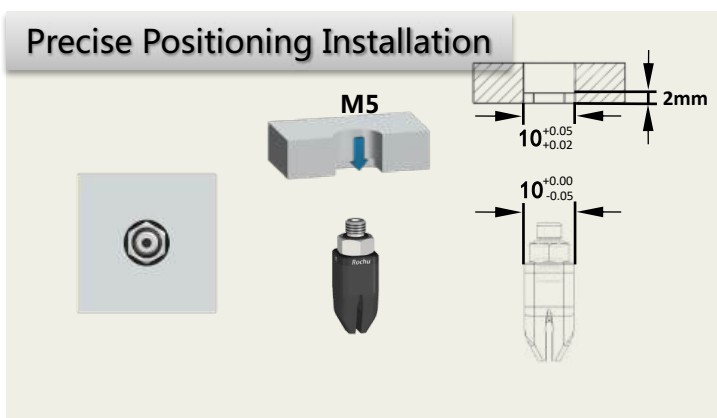
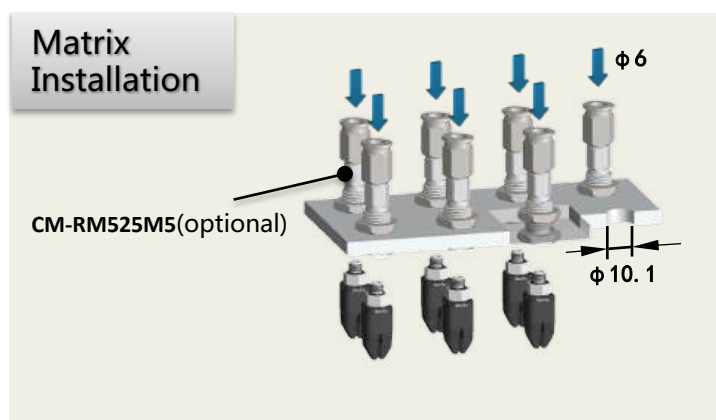
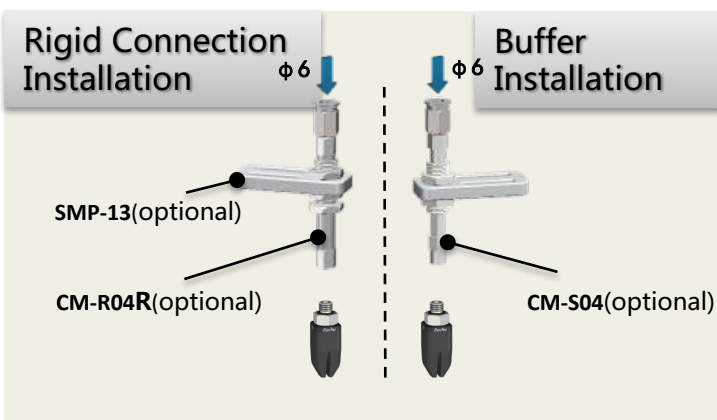
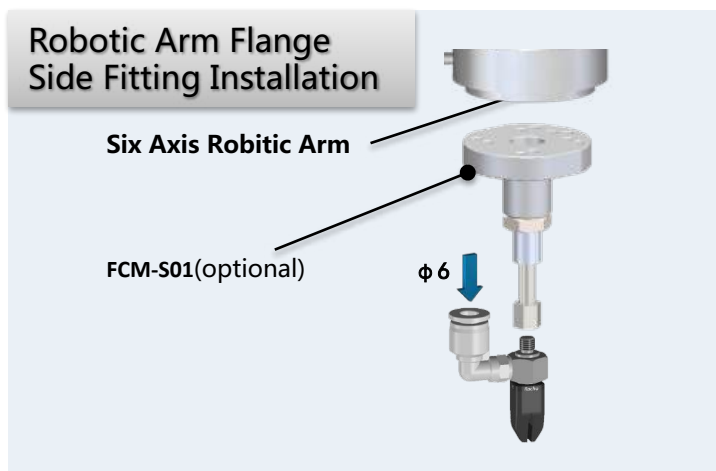
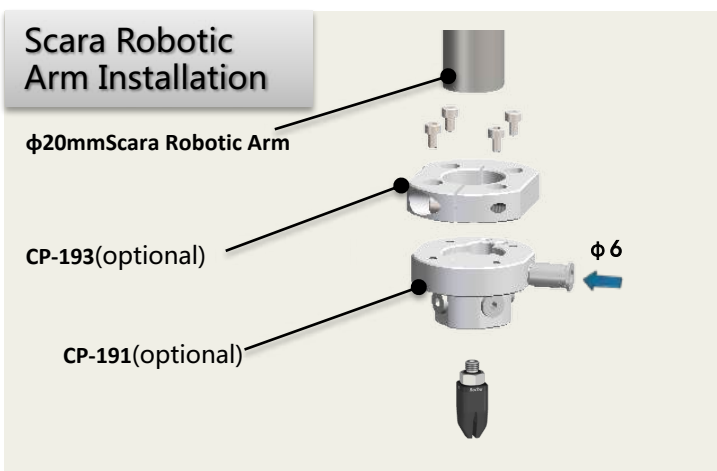
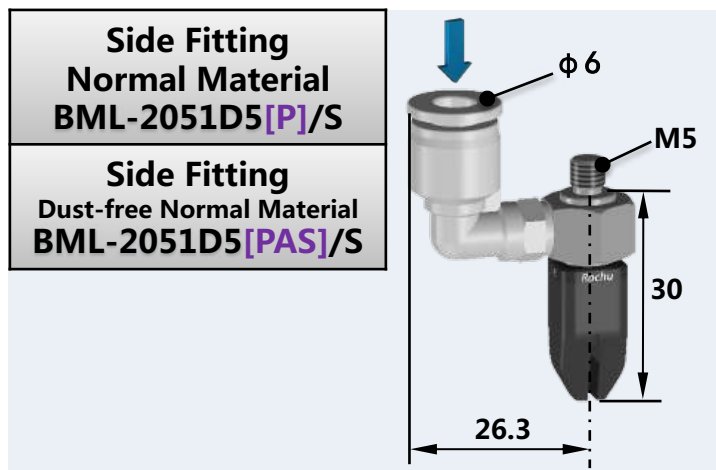
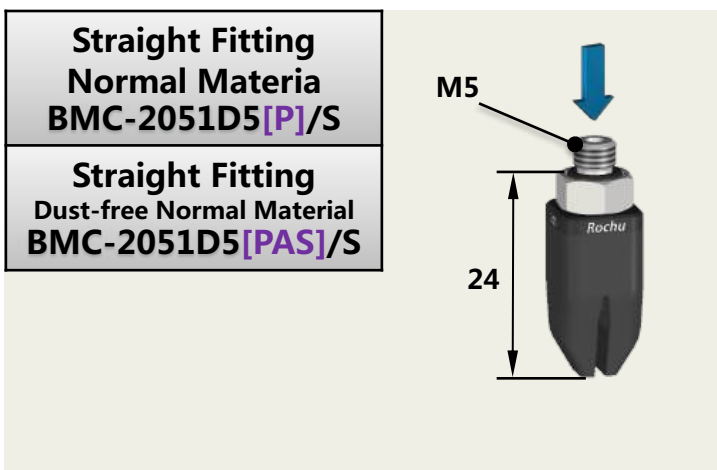
Repetitive Precision	$\pm 0.05\text{mm}$	Recommend -ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+90kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	x	BMC Weight	3.7g	BML Weight	13g

\* : 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



BM



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Product features

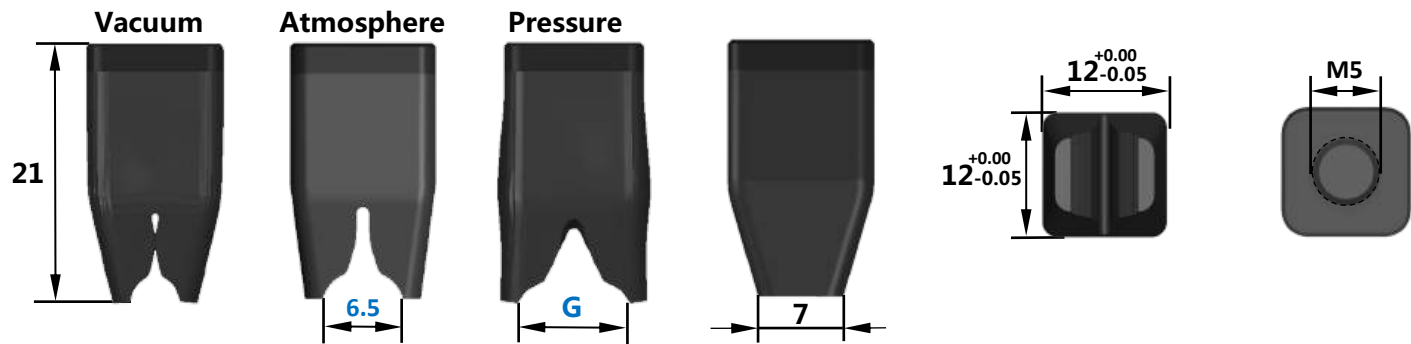
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
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Straight Fitting  
Normal Materia  
BMC-2076D5**[P]**/S

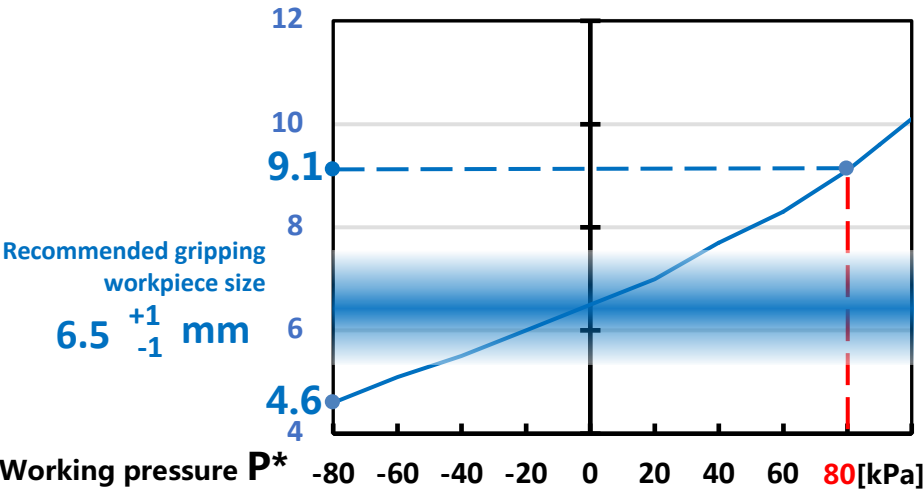
Straight Fitting  
Dust-free Normal Material  
BMC-2076D5**[PAS]**/S

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

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



Gripping fingertip distance **G** [mm]



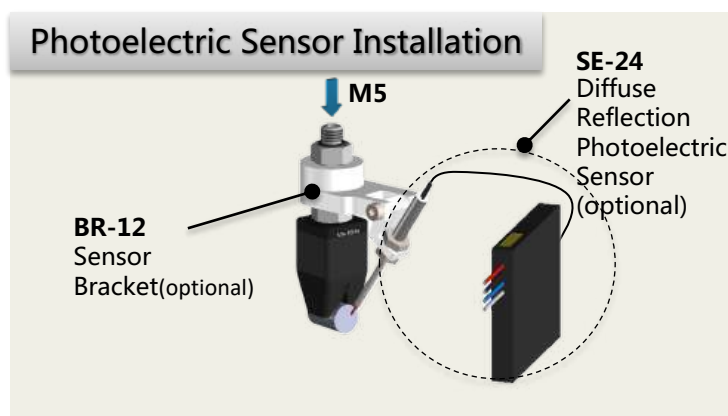
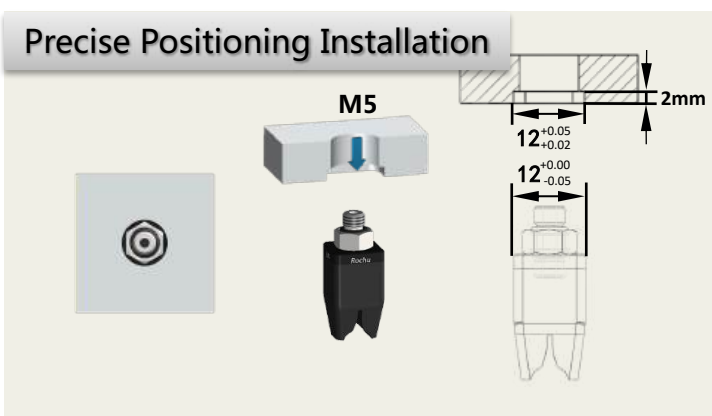
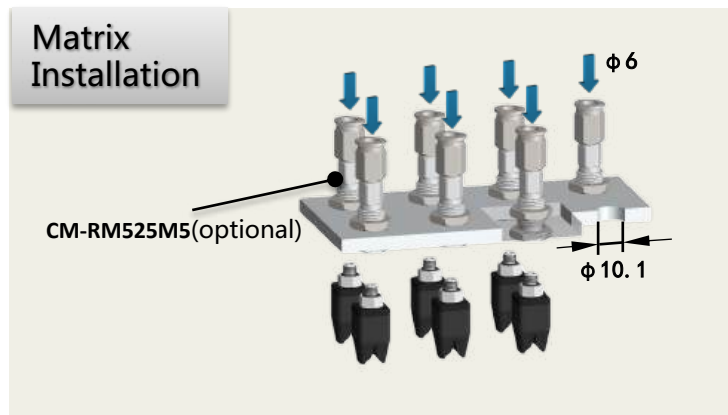
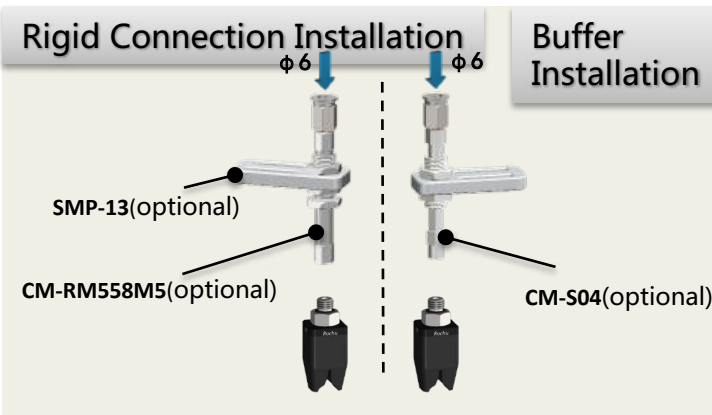
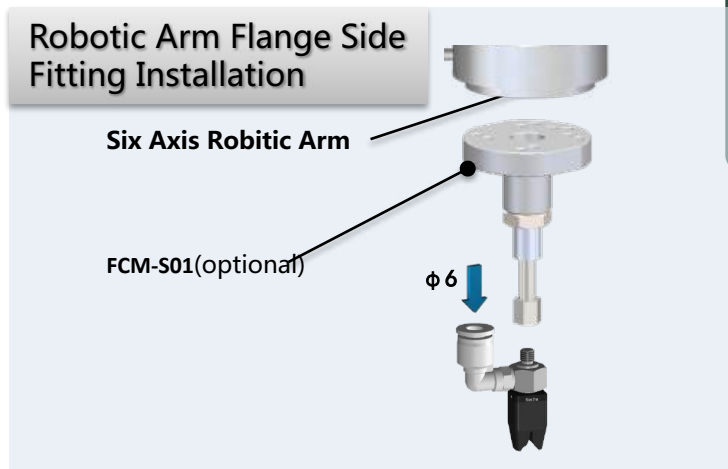
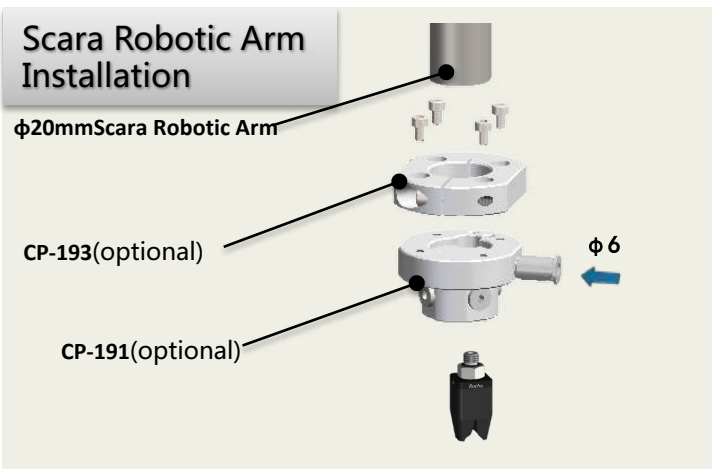
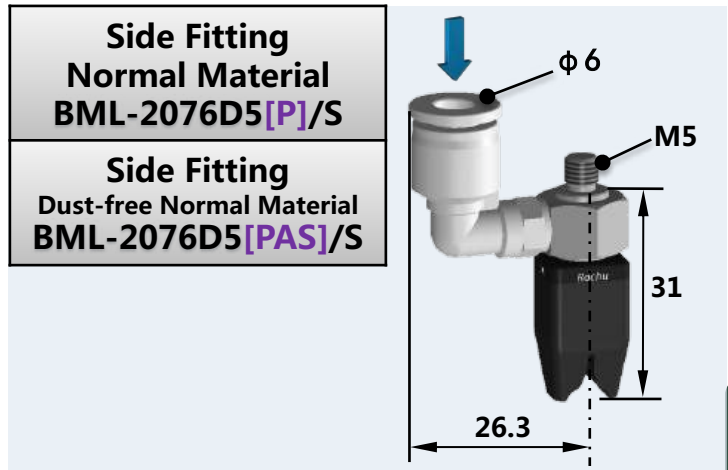
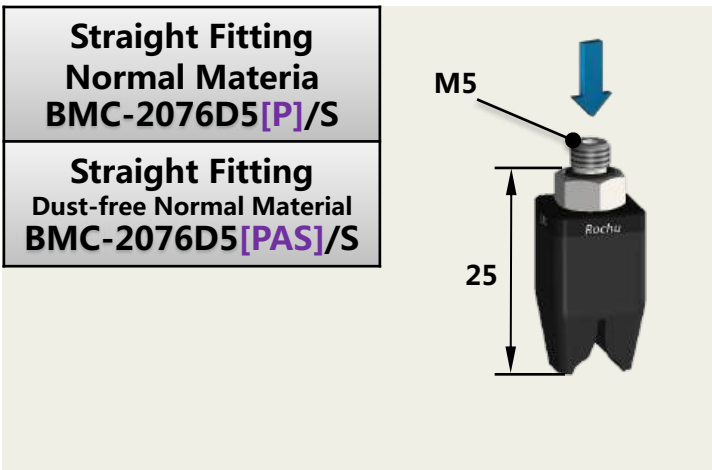
Parameter

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Frequency	6times/sec	External gripping force	0-0.07N	Internal gripping force	x	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

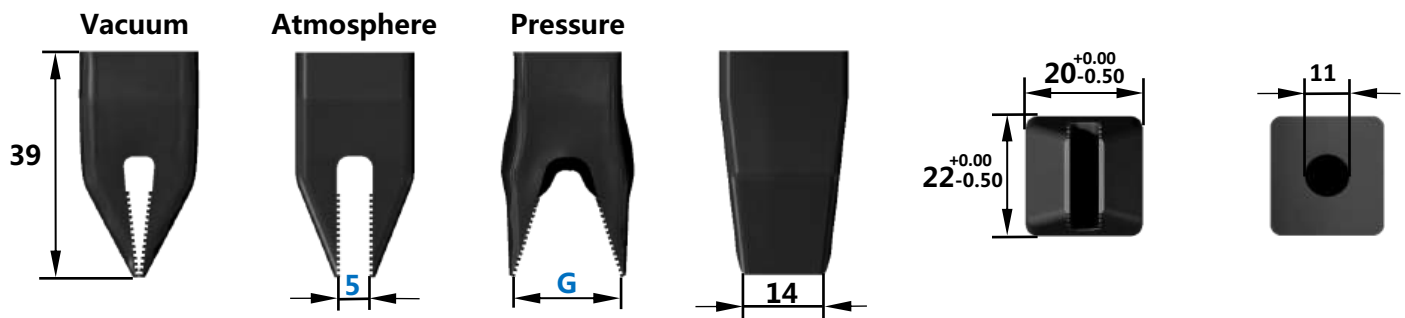
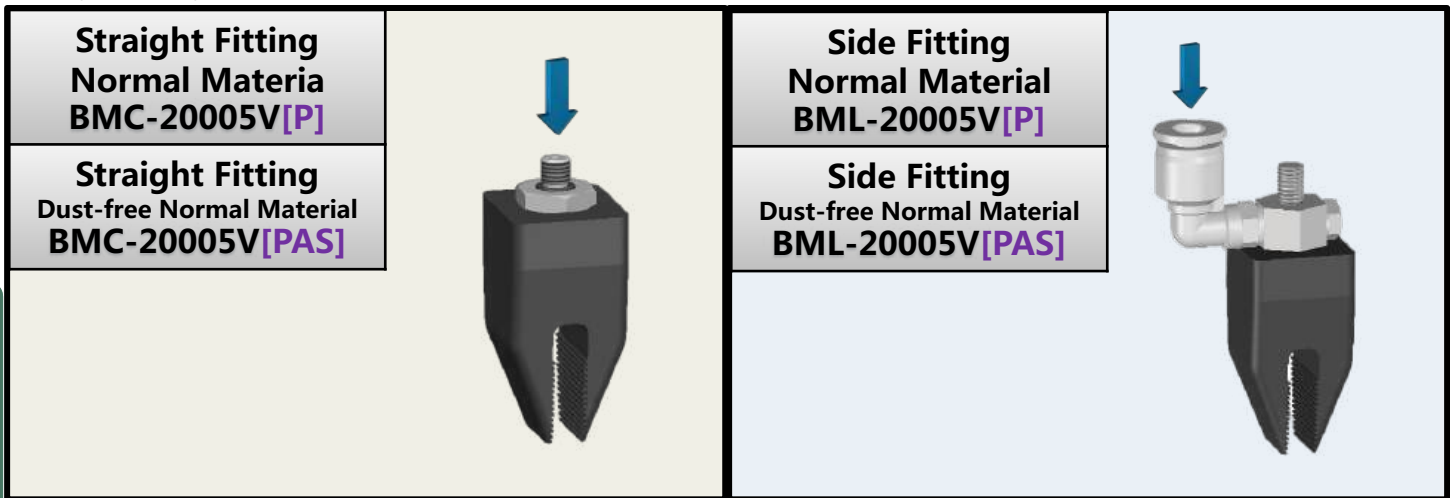


BM

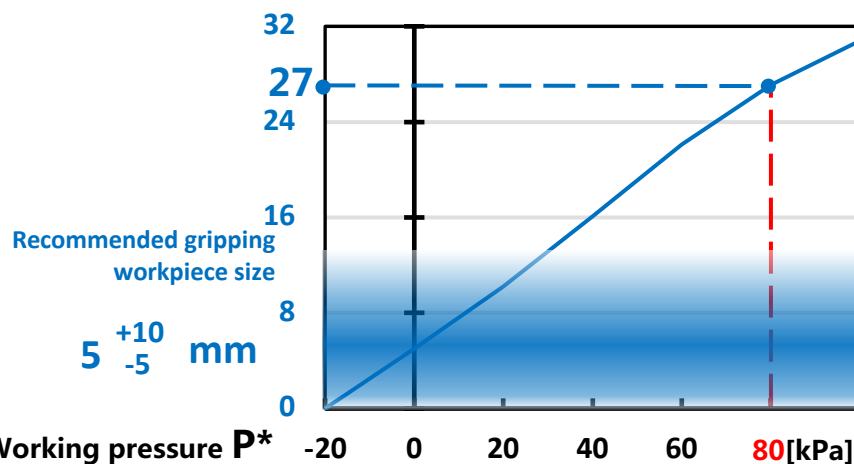


## Product features

- 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.
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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°C
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	x	BMC Weight	18g	BML Weight	27.5g

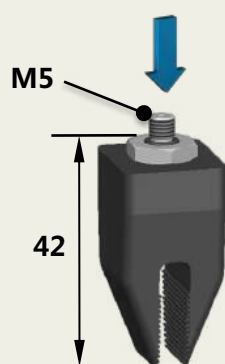
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

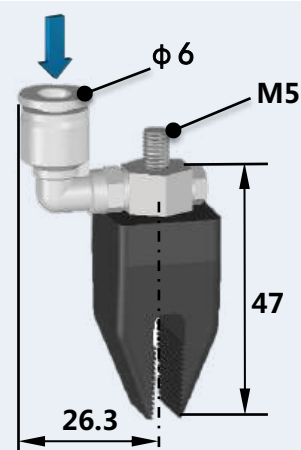
**Straight Fitting**  
Normal Material  
BMC-20005V[P]

**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]

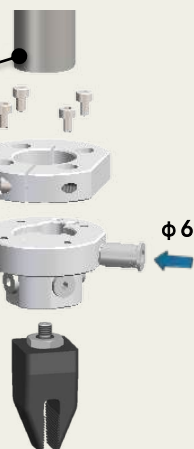


**Scara Robotic Arm Installation**

φ20mm Scara Robotic Arm

CP-193(optional)

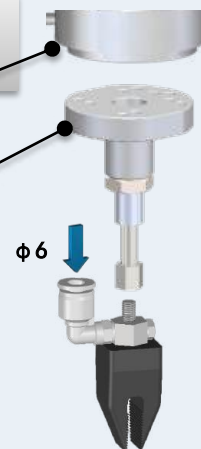
CP-191(optional)



**Robotic Arm Flange Side Fitting Installation**

Six Axis Robotic Arm

FCM-S01(optional)



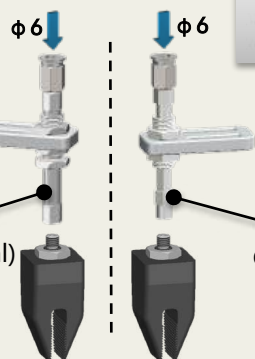
**Rigid Connection Installation**

SMP-13(optional)

CM-RM558M5(optional)

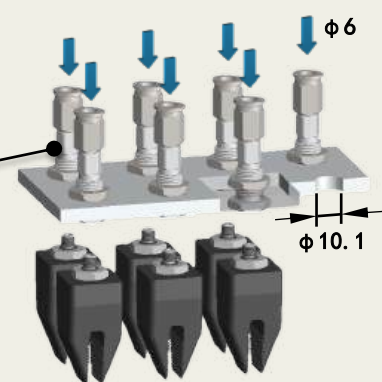
**Buffer Installation**

CM-S04(optional)



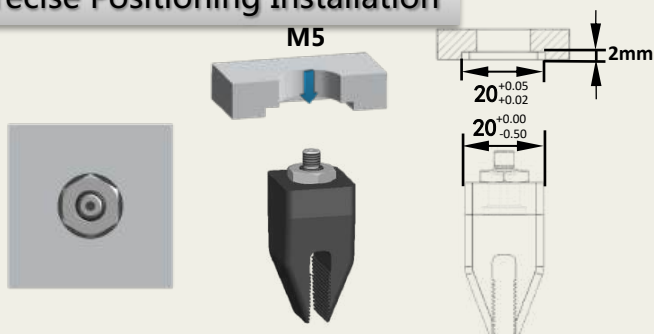
**Matrix Installation**

CM-RM525M5(optional)



**Precise Positioning Installation**

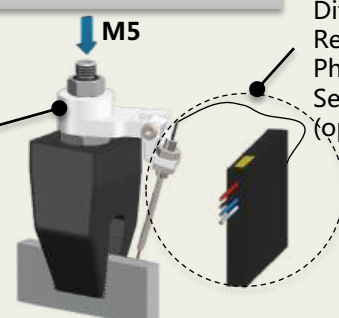
M5



**Photoelectric Sensor Installation**

SE-24  
Diffuse  
Reflection  
Photoelectric  
Sensor  
(optional)

BR-12  
Sensor  
Bracket(optional)

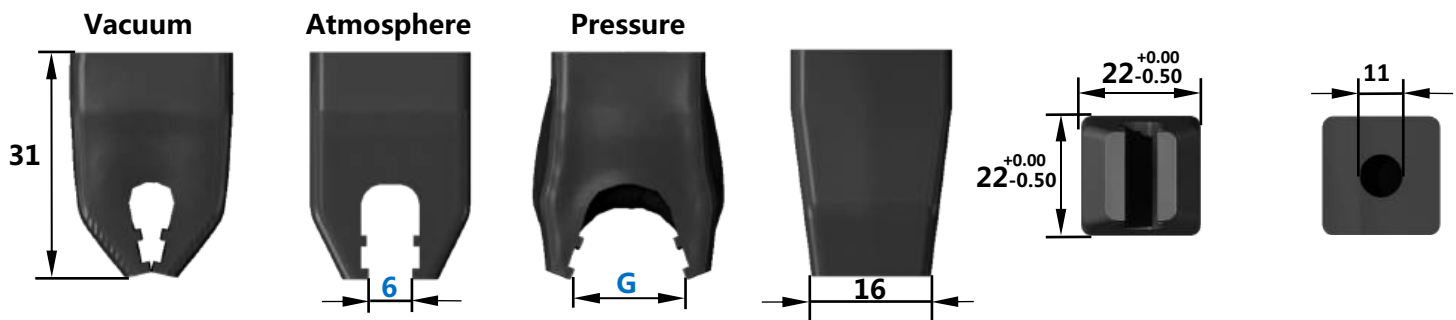
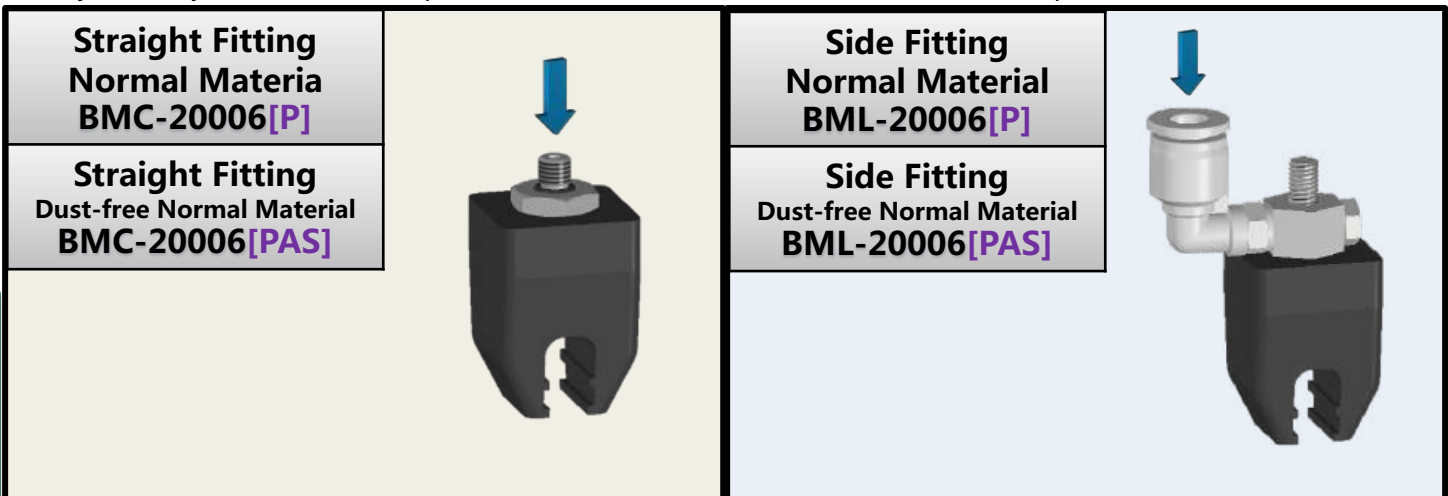




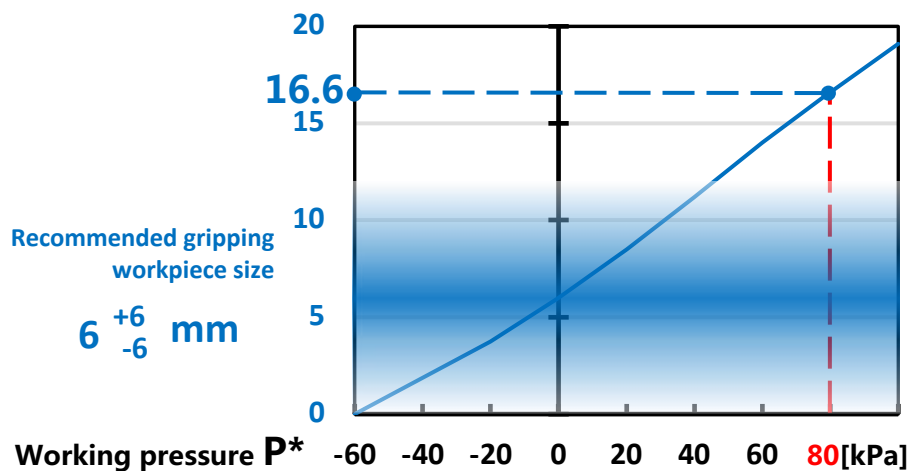


## Product features

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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.



Gripping fingertip distance **G** [mm]



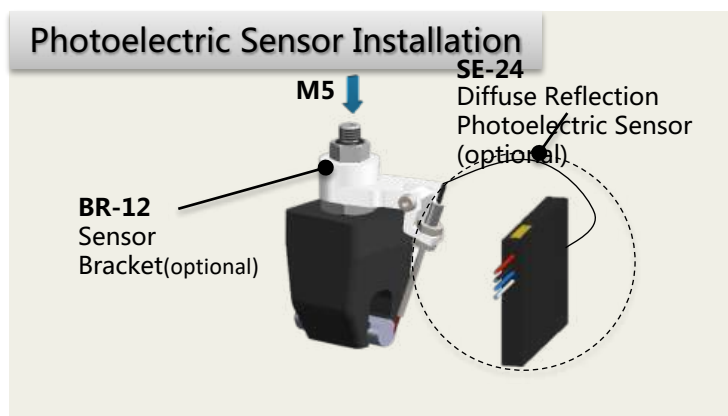
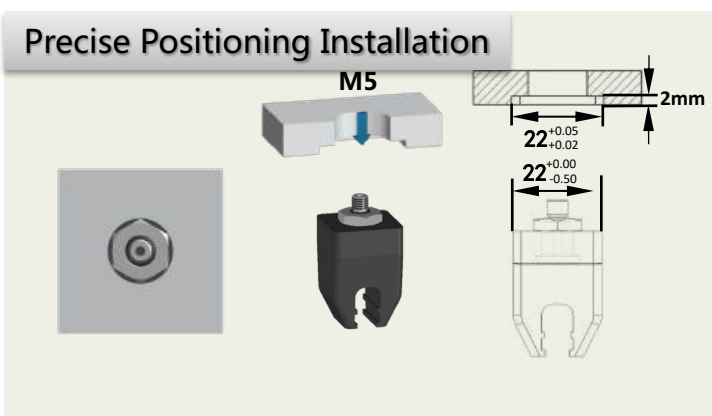
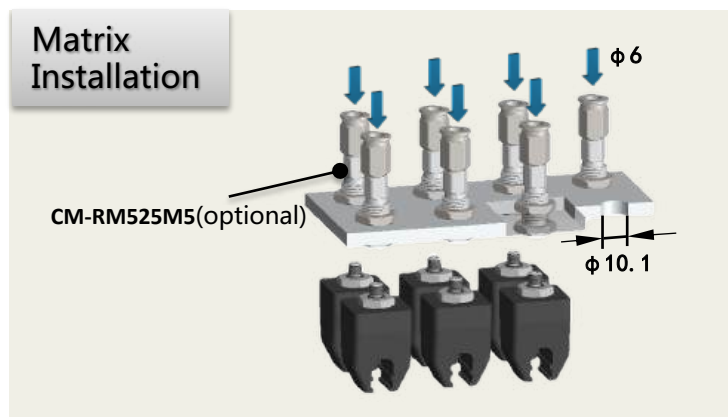
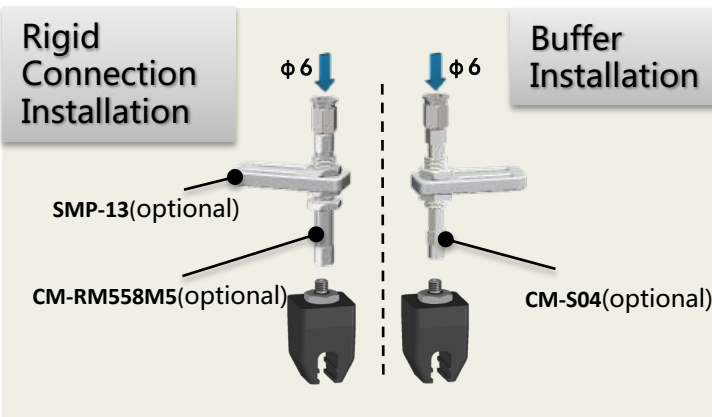
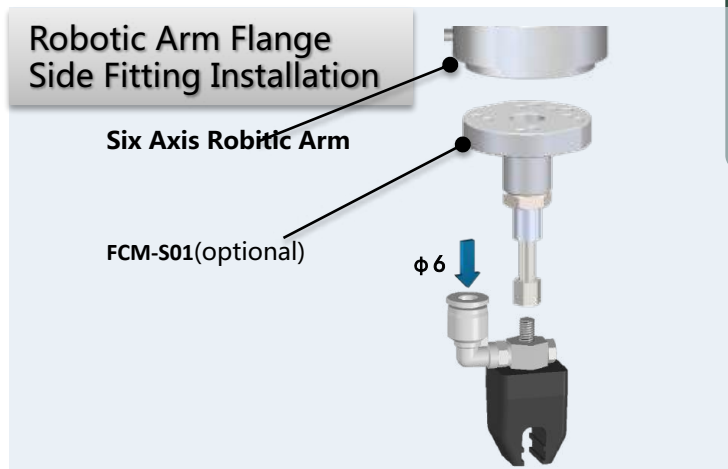
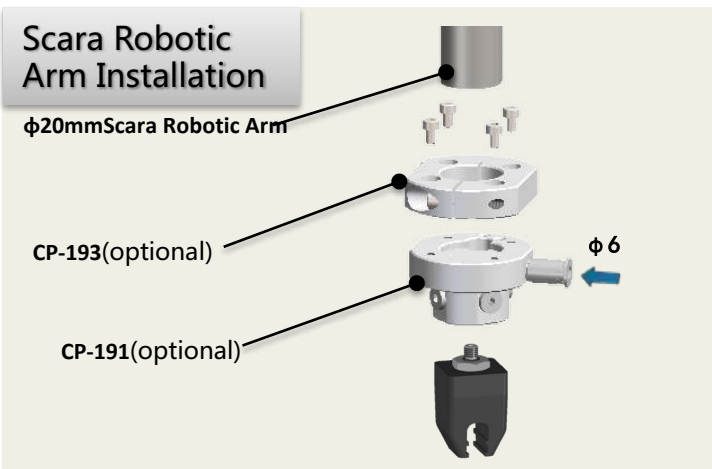
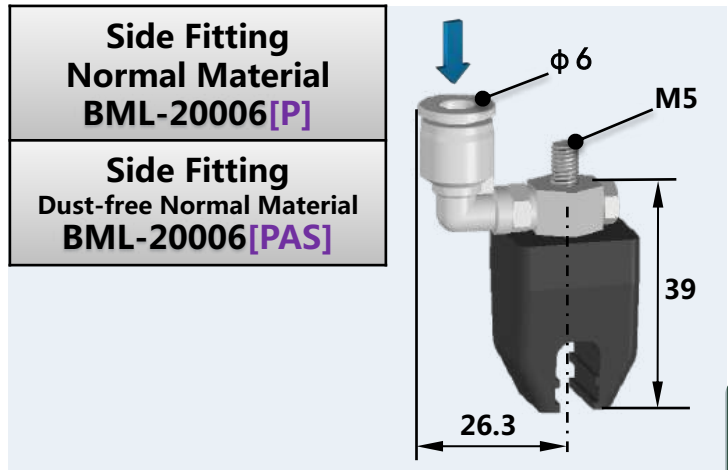
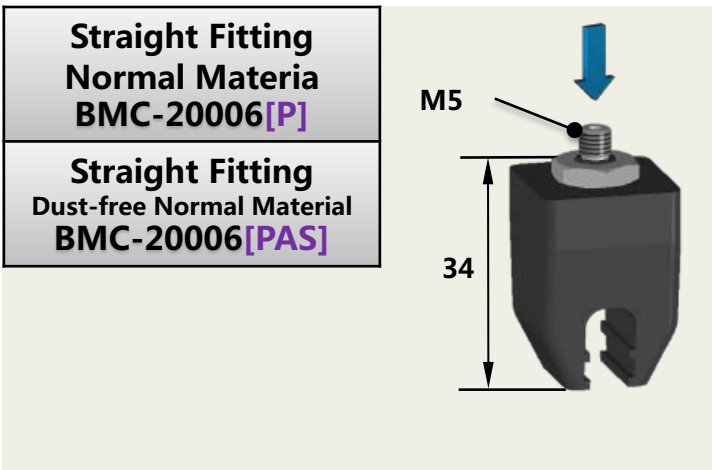
## Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa	⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	x	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





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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 **[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.

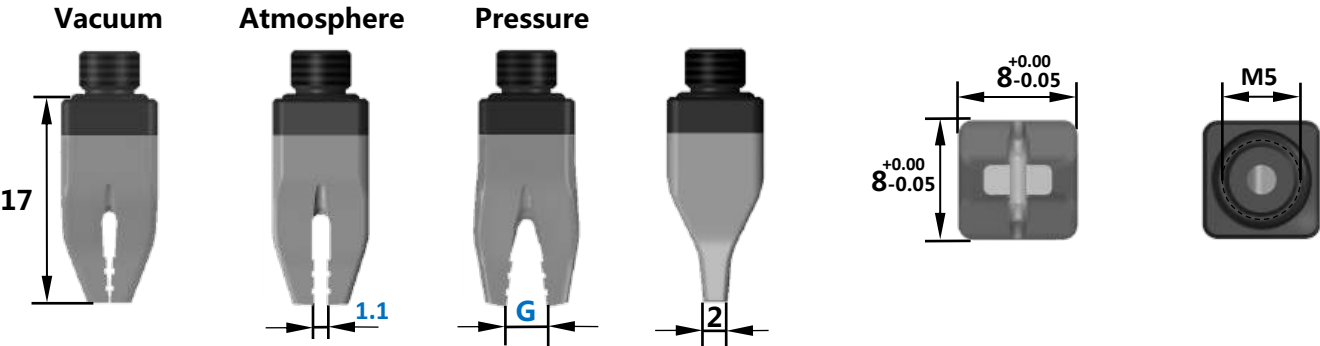
Straight Fitting  
Normal Materia  
BMC-20201**[H]**/S

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

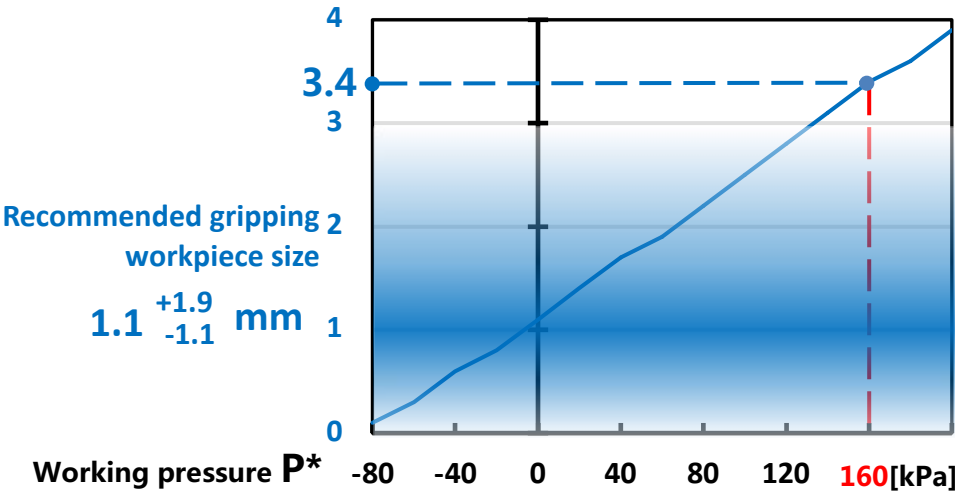
Side Fitting  
Normal Material  
BML-20201**[H]**/S

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

BM



Gripping fingertip distance **G** [mm]



Parameter

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

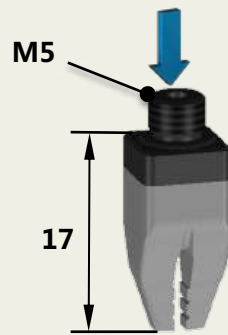
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit.The working air pressure should not exceed the safe working pressure range.



## Installation

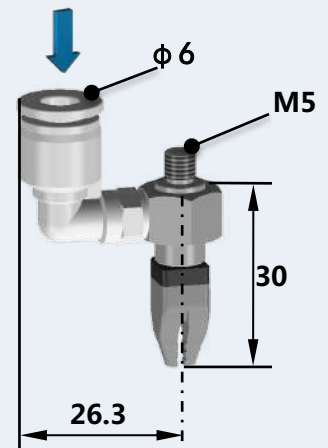
**Straight Fitting**  
Normal Material  
BMC-20201[H]/S

**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

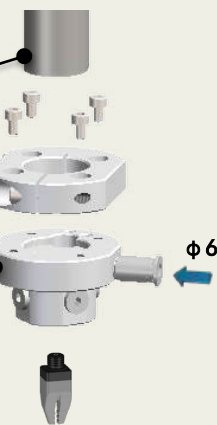


**Scara Robotic Arm Installation**

φ20mm Scara Robotic Arm

CP-193(optional)

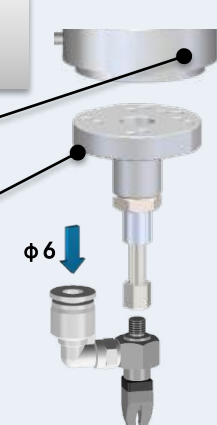
CP-191(optional)



**Robotic Arm Flange Side Fitting Installation**

Six Axis Robotic Arm

FCM-S01(optional)



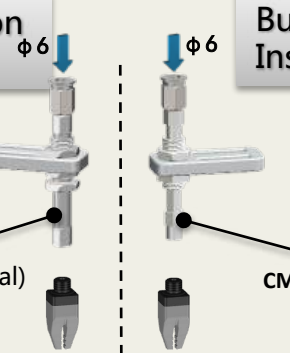
**Rigid Connection Installation**

SMP-13(optional)

CM-RM558M5(optional)

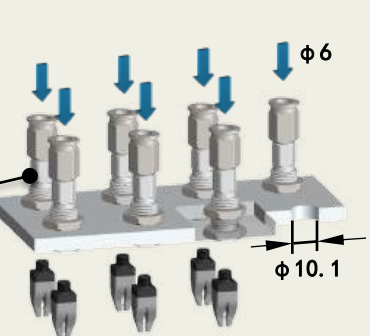
**Buffer Installation**

CM-S04(optional)



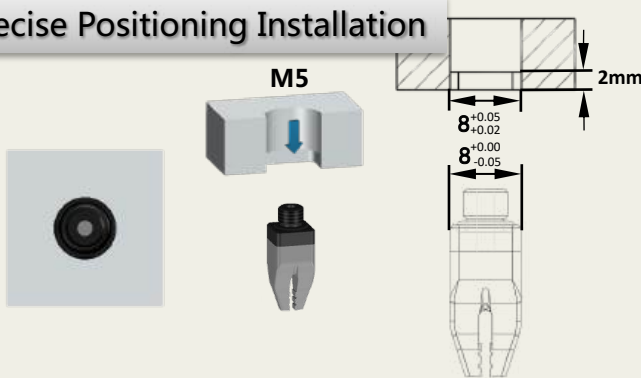
**Matrix Installation**

CM-RM525M5(optional)



**Precise Positioning Installation**

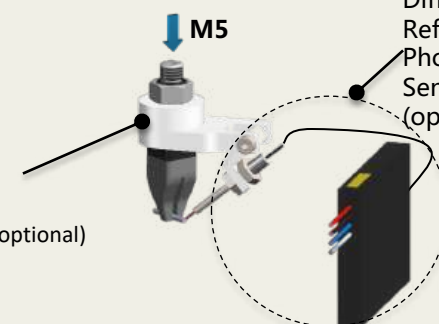
M5



**Photoelectric Sensor Installation**

SE-24  
Diffuse  
Reflection  
Photoelectric  
Sensor  
(optional)

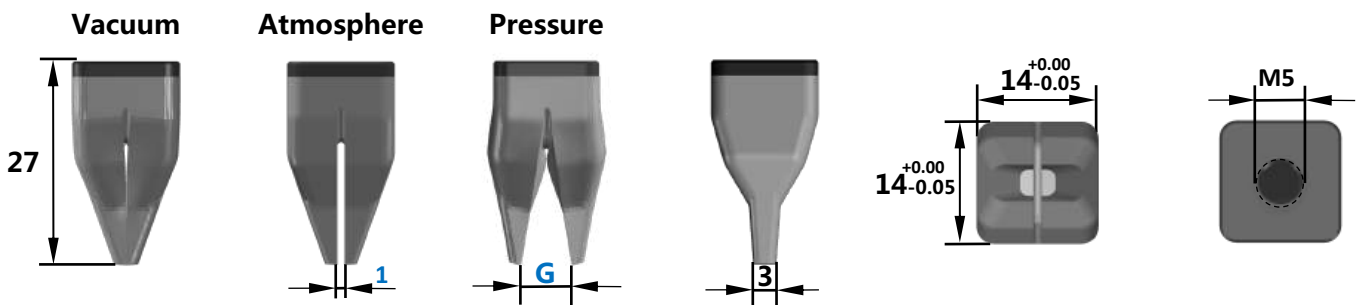
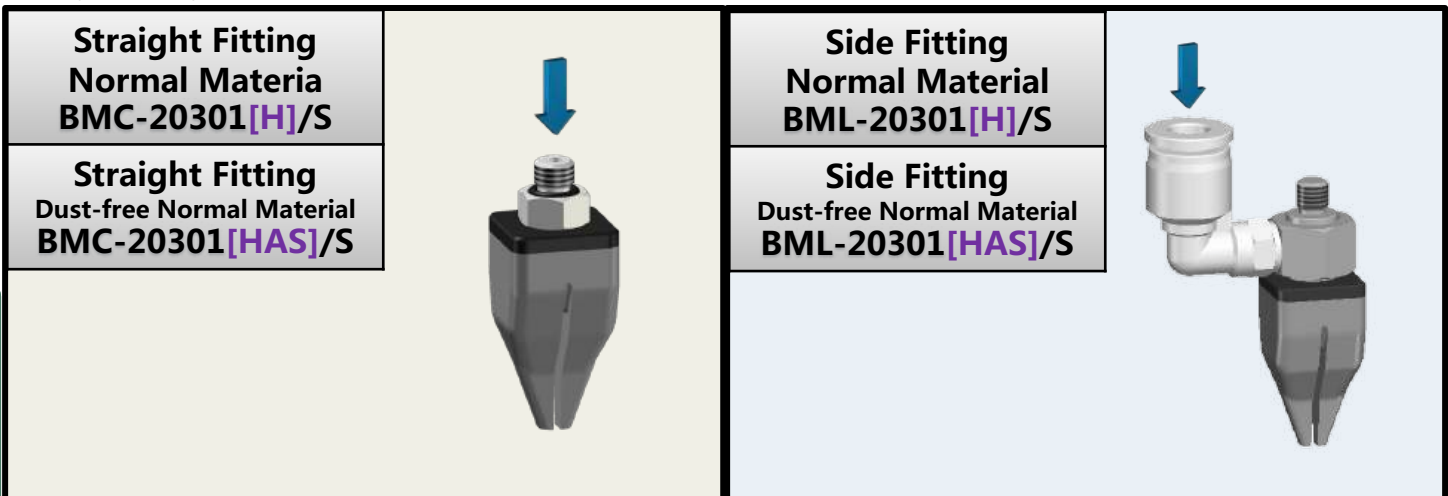
BR-12  
Sensor  
Bracket(optional)



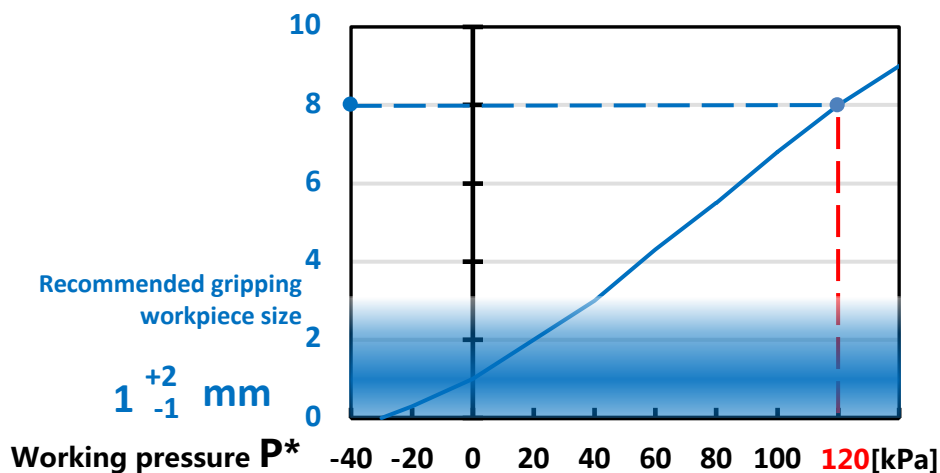


## Product features

- 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.



Gripping fingertip distance **G** [mm]



## Parameter

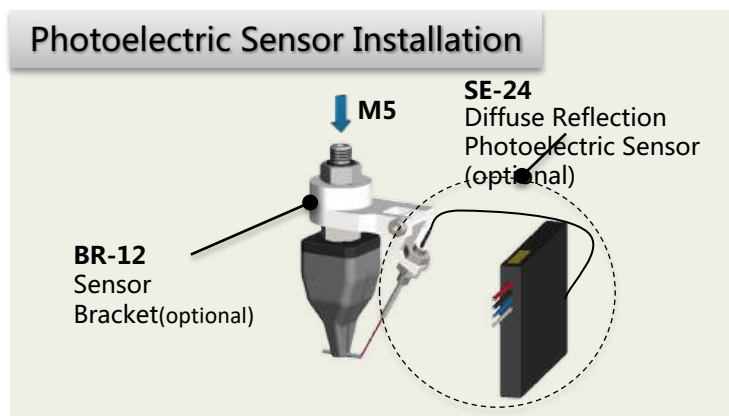
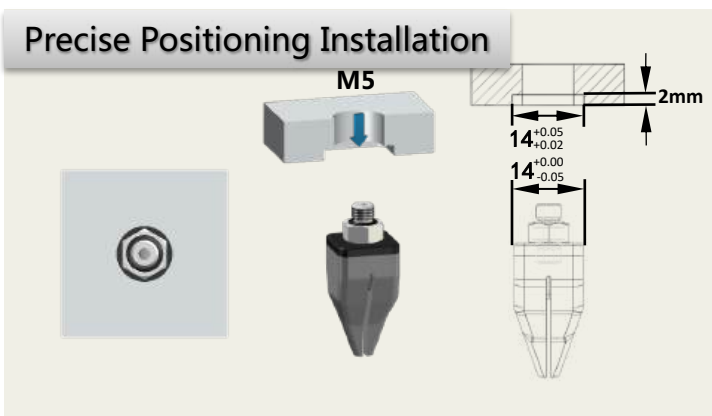
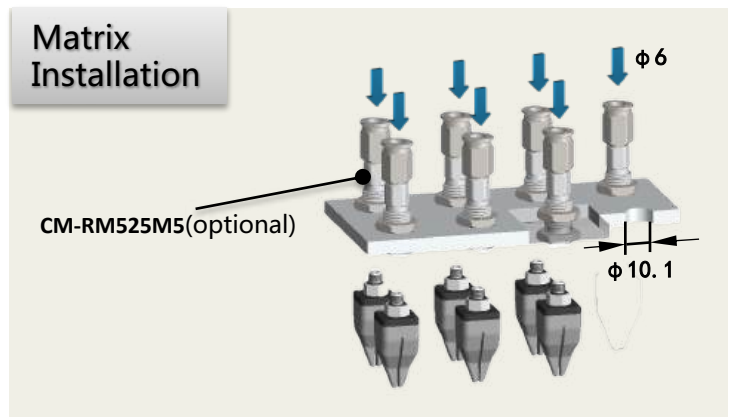
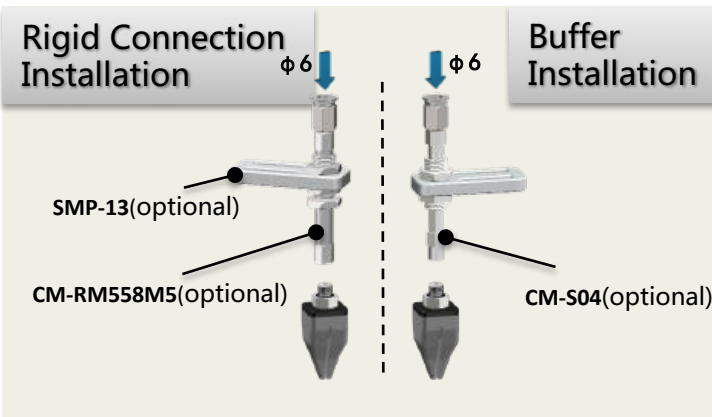
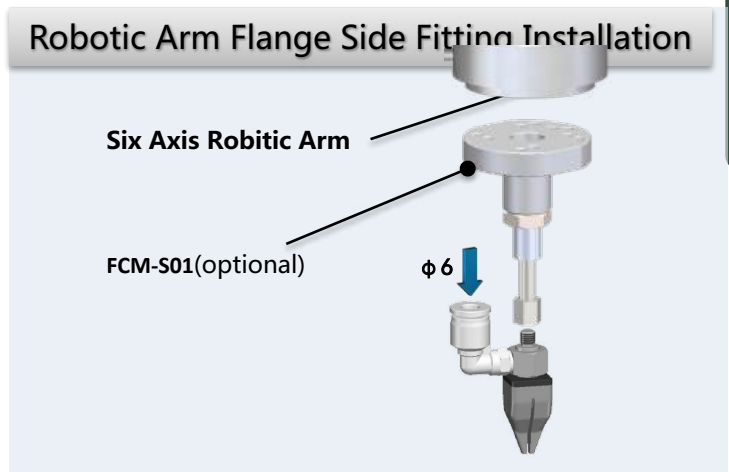
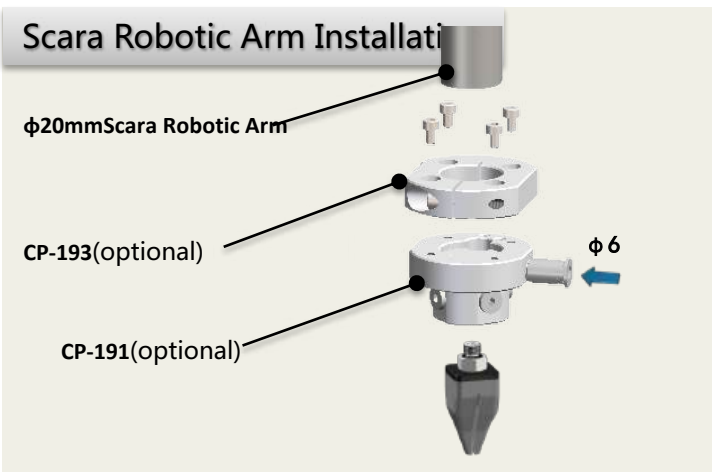
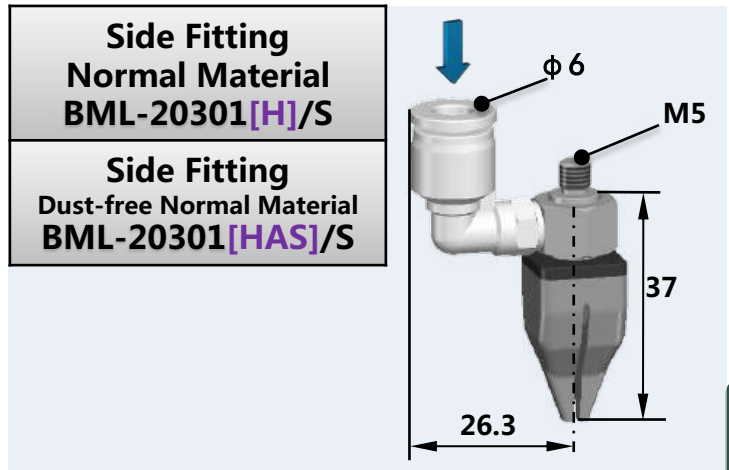
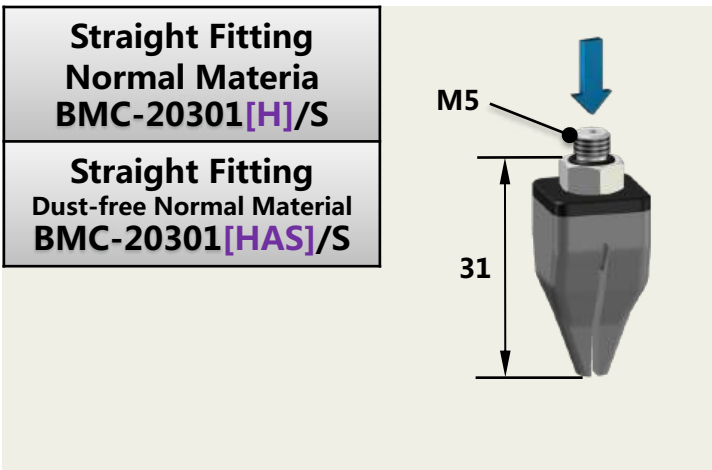
Repetitive Precision	±0.05mm	Recommend -ed Load	25g	Lifetime	1.5 million times*	Safe Pressure	+120kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.25N	Internal gripping force	x	BMC Weight	6g	BML Weight	15.5g

\* : 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.





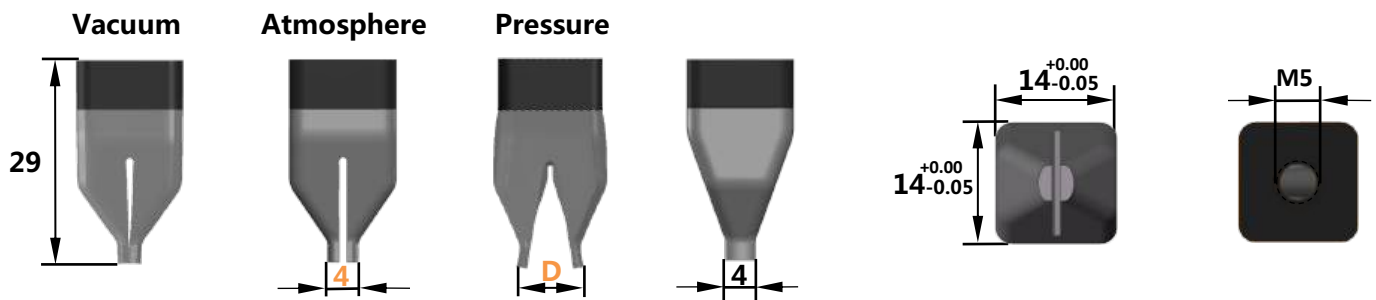
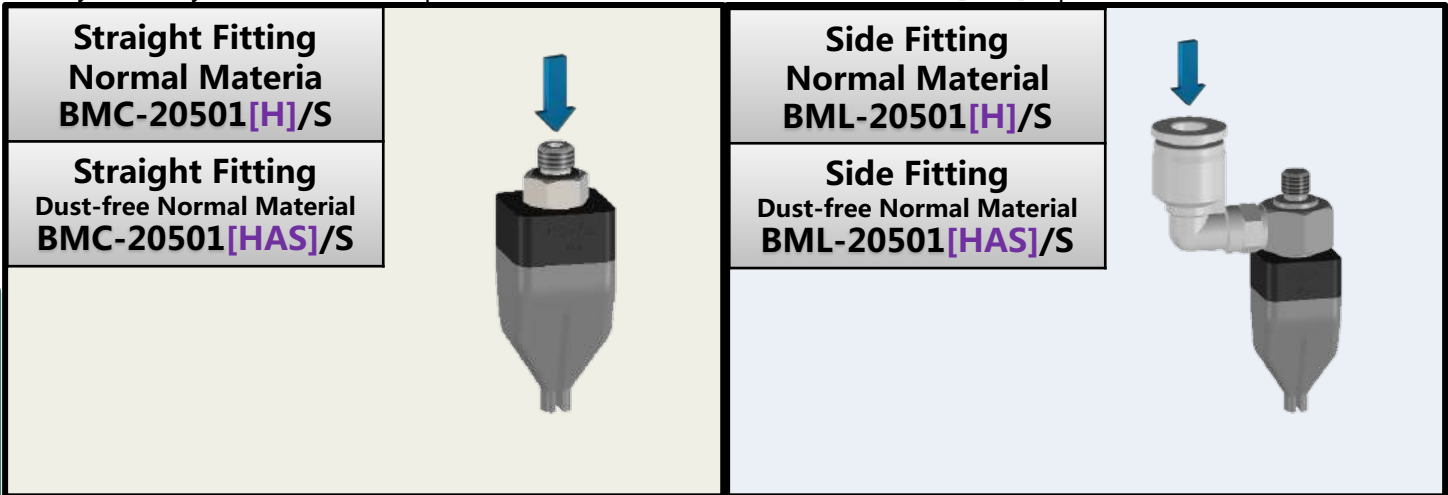
## Installation



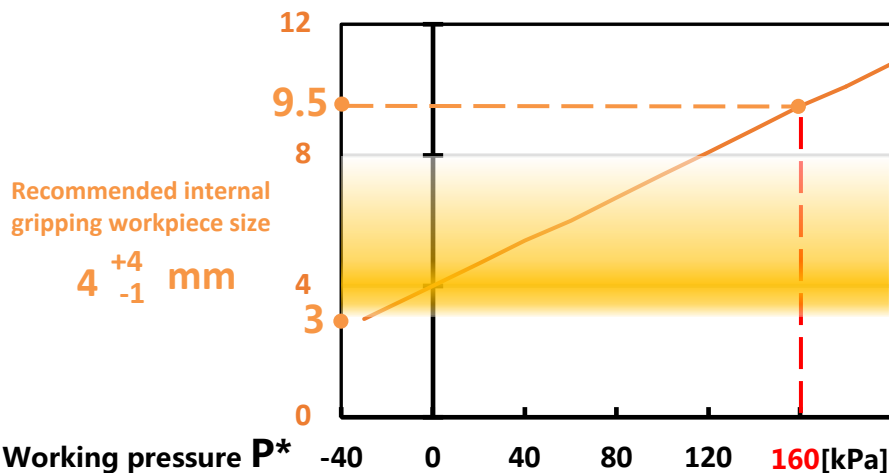


## Product features

- 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.



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°C
Frequency	6times/sec	External gripping force	x	Internal gripping force	0-0.05N	BMC Weight	7g	BML Weight	16g

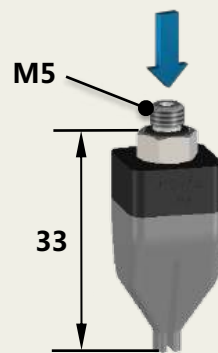
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

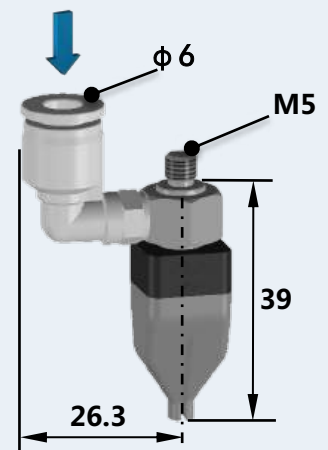
**Straight Fitting**  
Normal Material  
**BMC-20501[H]/S**

**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**

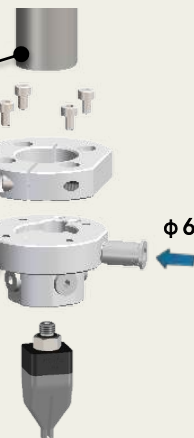


### Scara Robotic Arm Installation

$\phi 20$ mm Scara Robotic Arm

CP-193(optional)

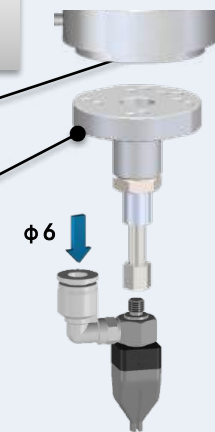
CP-191(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

$\phi 6$

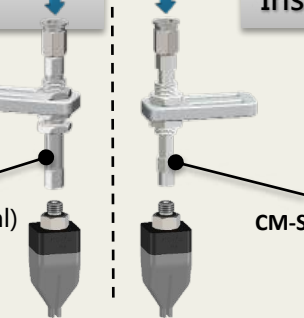
### Buffer Installation

$\phi 6$

SMP-13(optional)

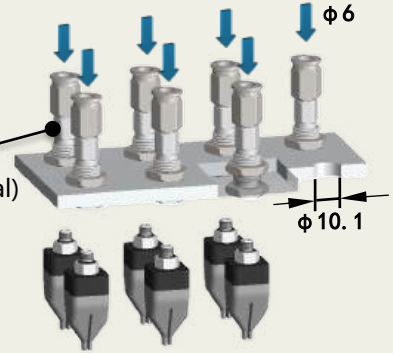
CM-RM558M5(optional)

CM-S04(optional)



### Matrix Installation

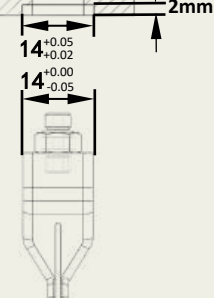
CM-RM525M5(optional)



### Precise Positioning Installation

M5

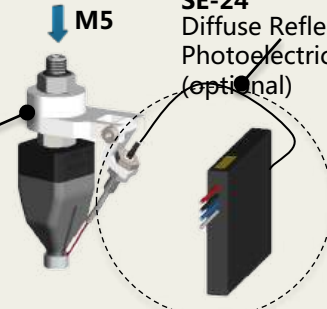
2mm



### Photoelectric Sensor Installation

BR-12  
Sensor  
Bracket(optional)

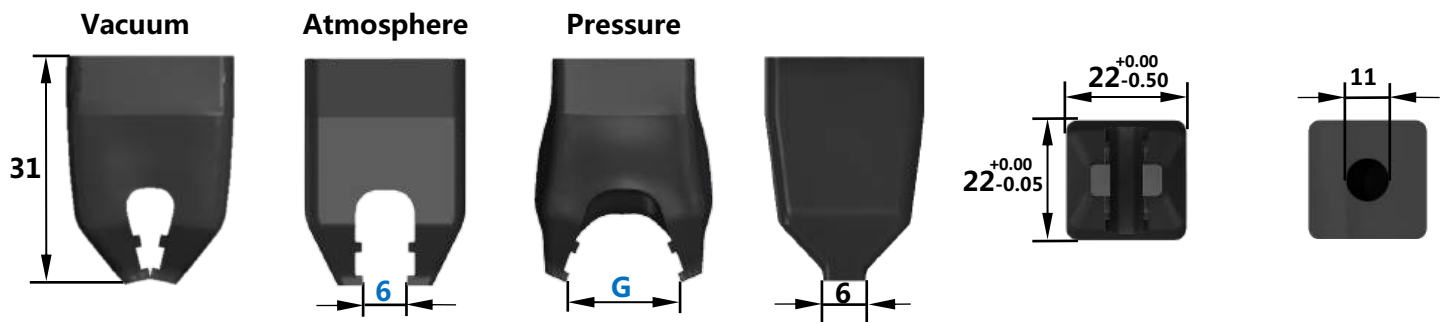
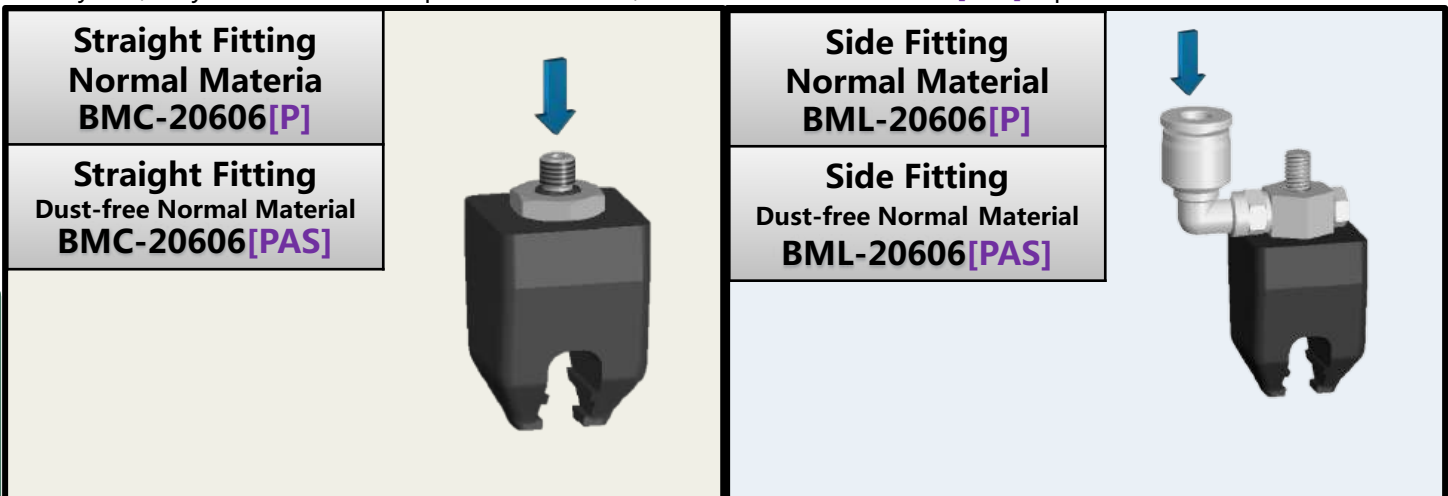
SE-24  
Diffuse Reflection  
Photoelectric Sensor  
(optional)



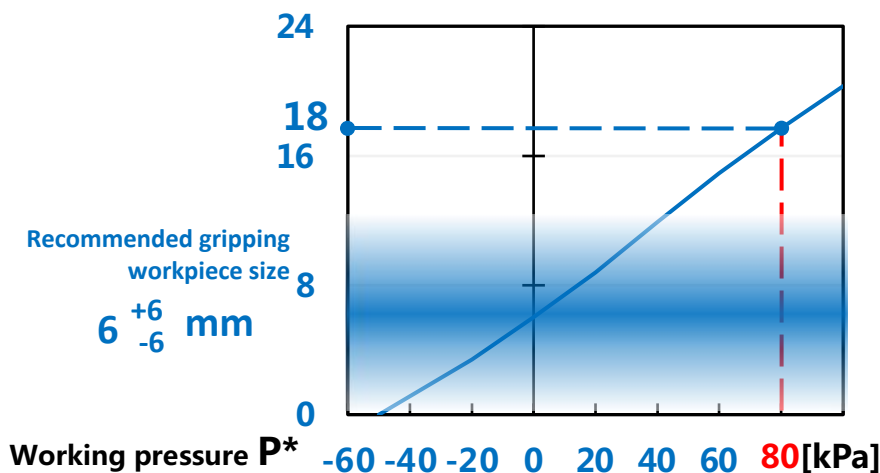


## Product features

- 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.



Gripping fingertip distance **G** [mm]



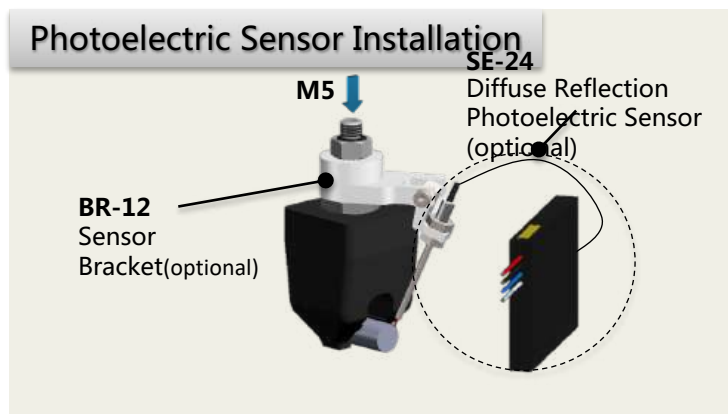
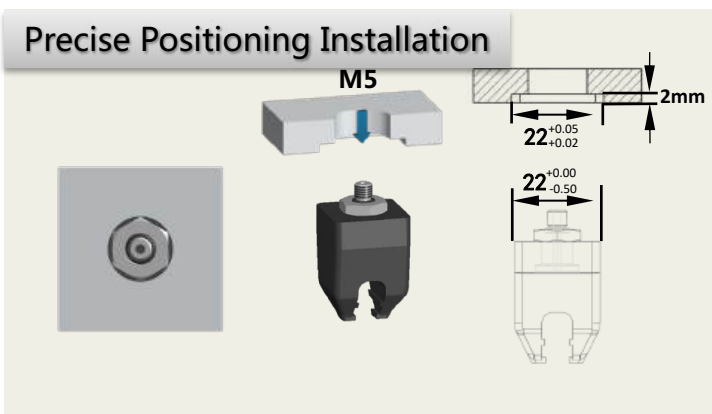
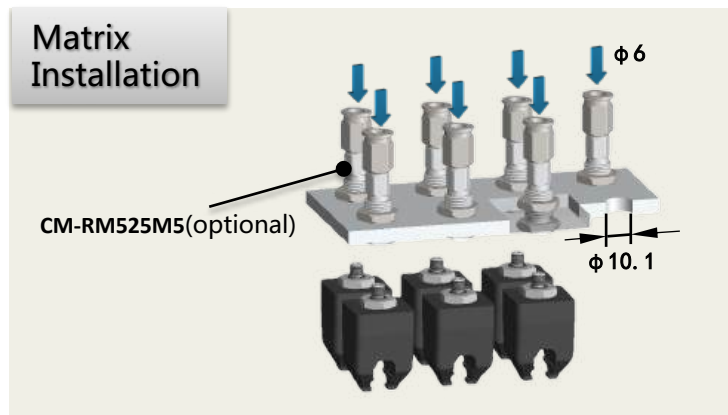
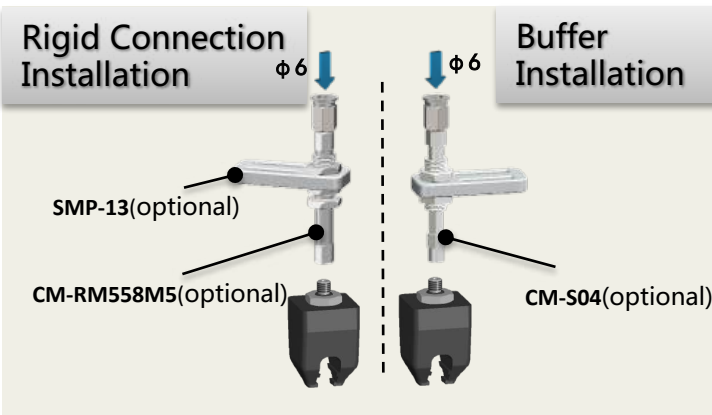
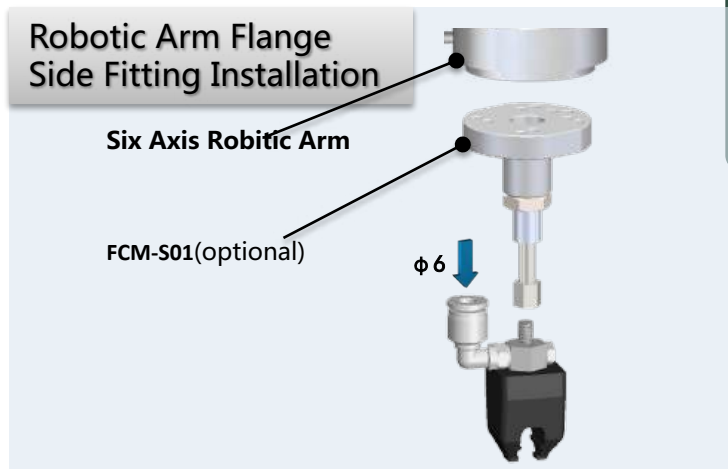
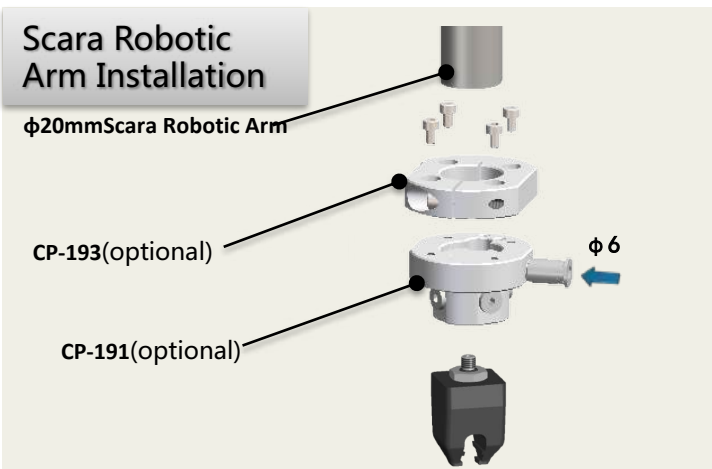
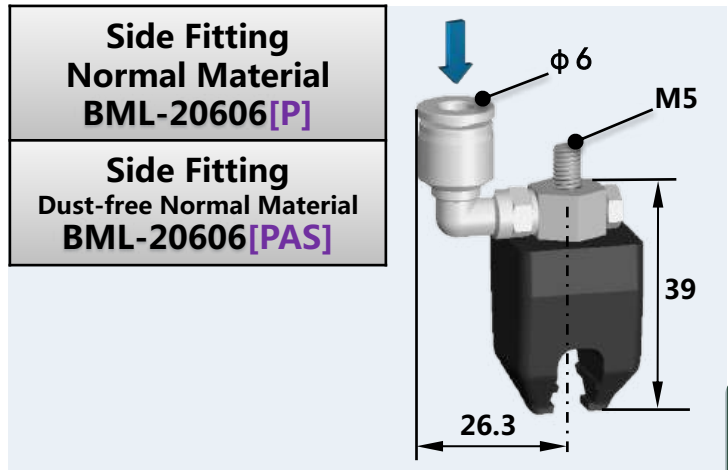
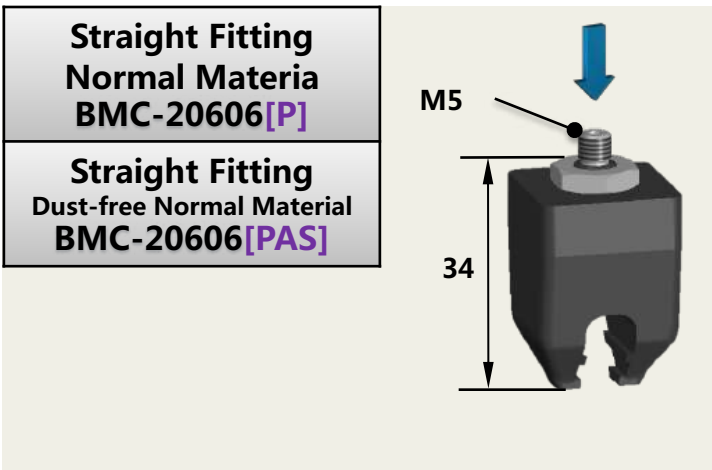
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+80kPa	⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	x	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



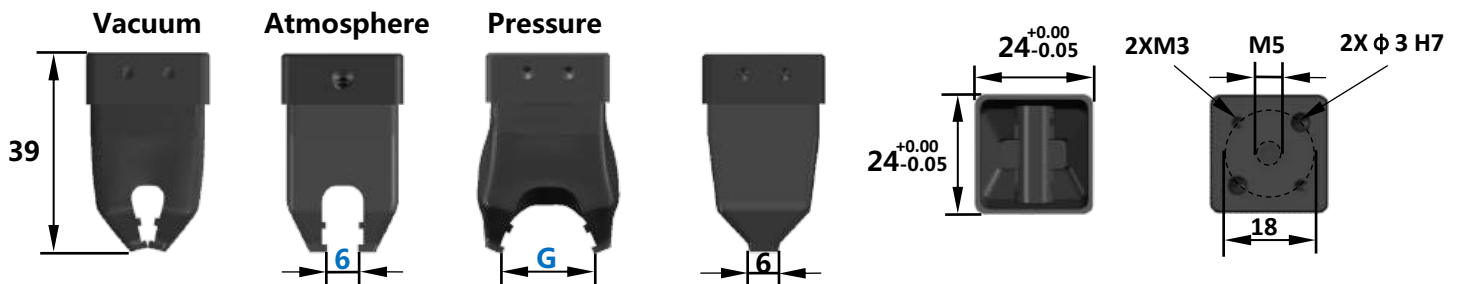
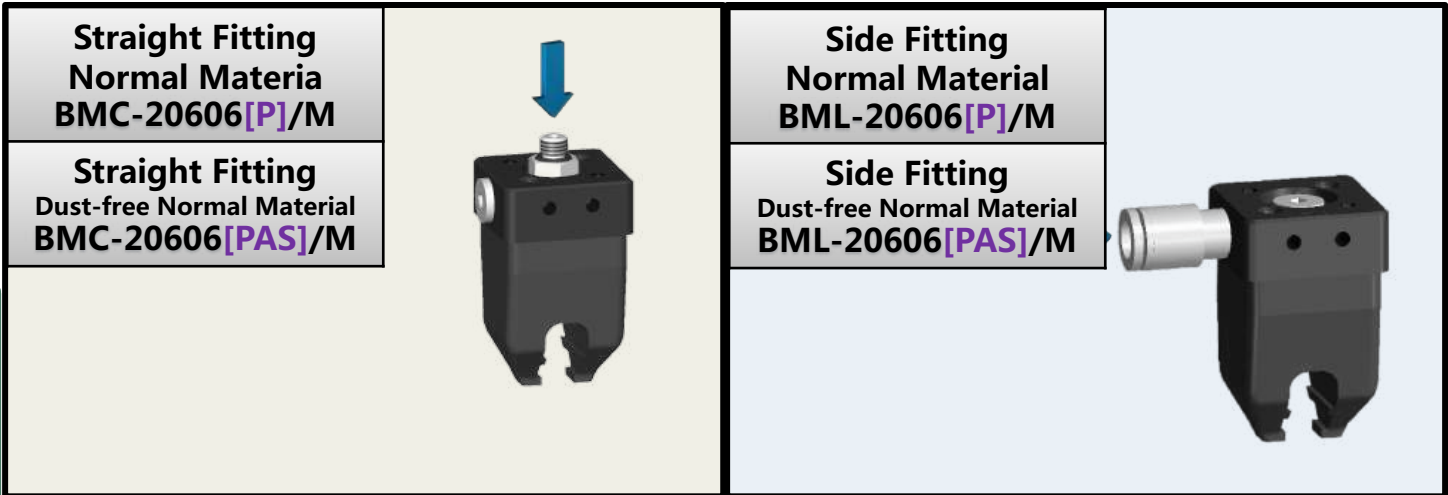
BM



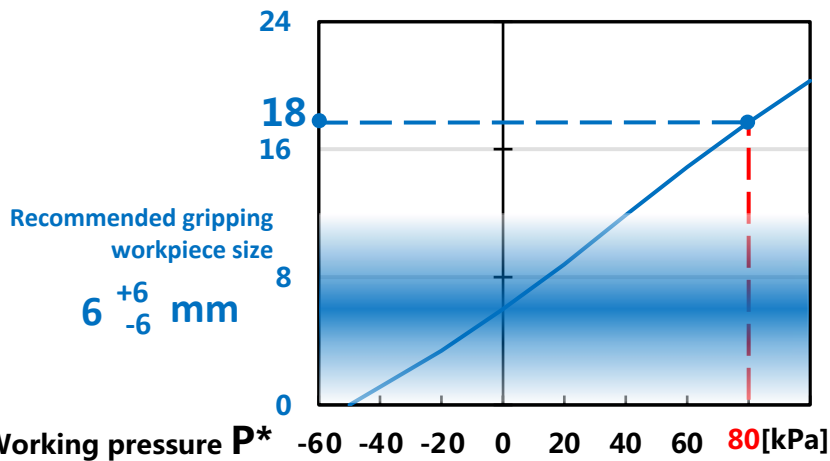


## Product features

- 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.



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°C
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	x	BMC Weight	22g	BML Weight	21g

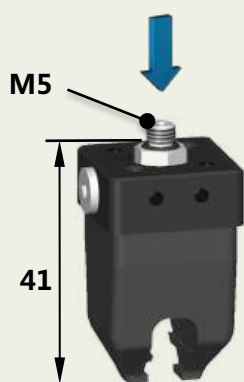
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

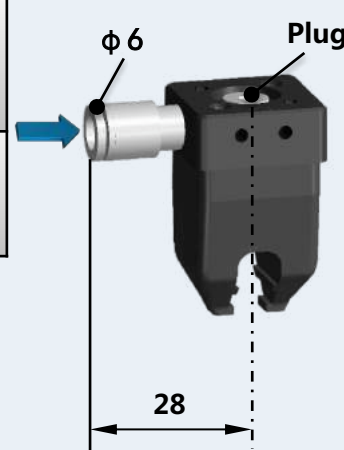
**Straight Fitting**  
Normal Material  
BMC-20606[P]/M

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



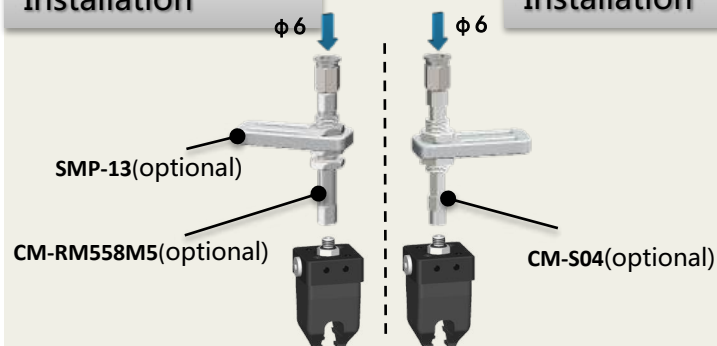
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Normal Material  
BML-20606[P]/M

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

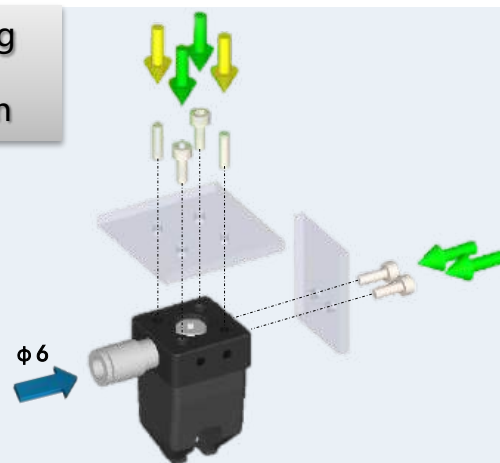


**Rigid Connection**  
Installation

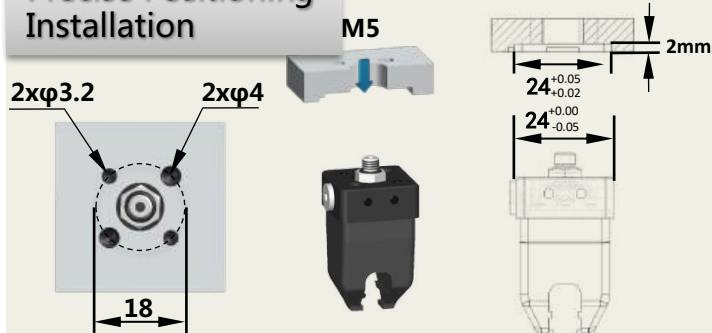
**Buffer**  
Installation



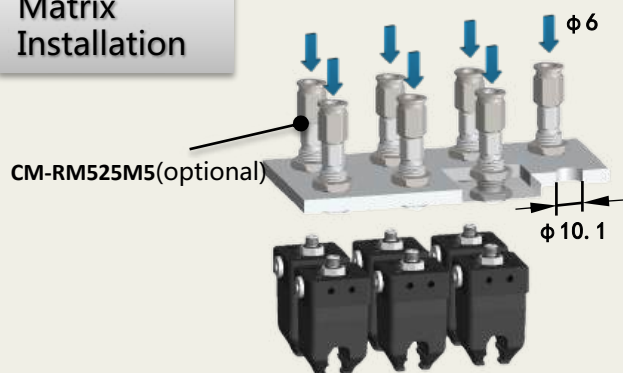
**Side Fitting**  
Partition  
Installation



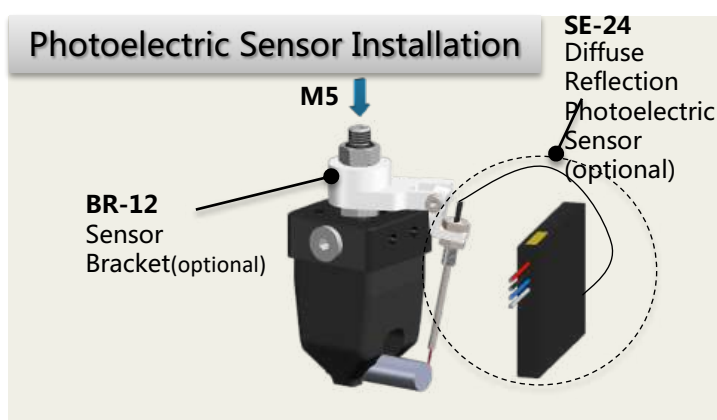
**Precise Positioning**  
Installation



**Matrix**  
Installation



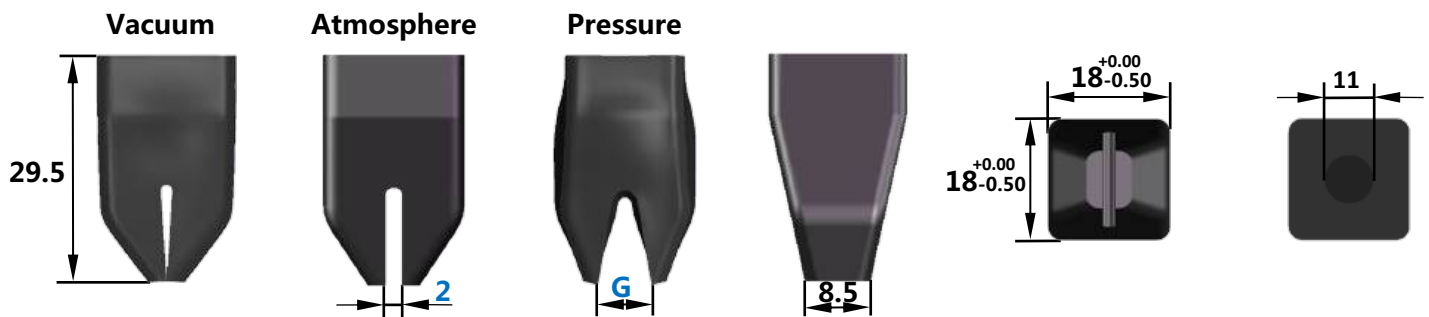
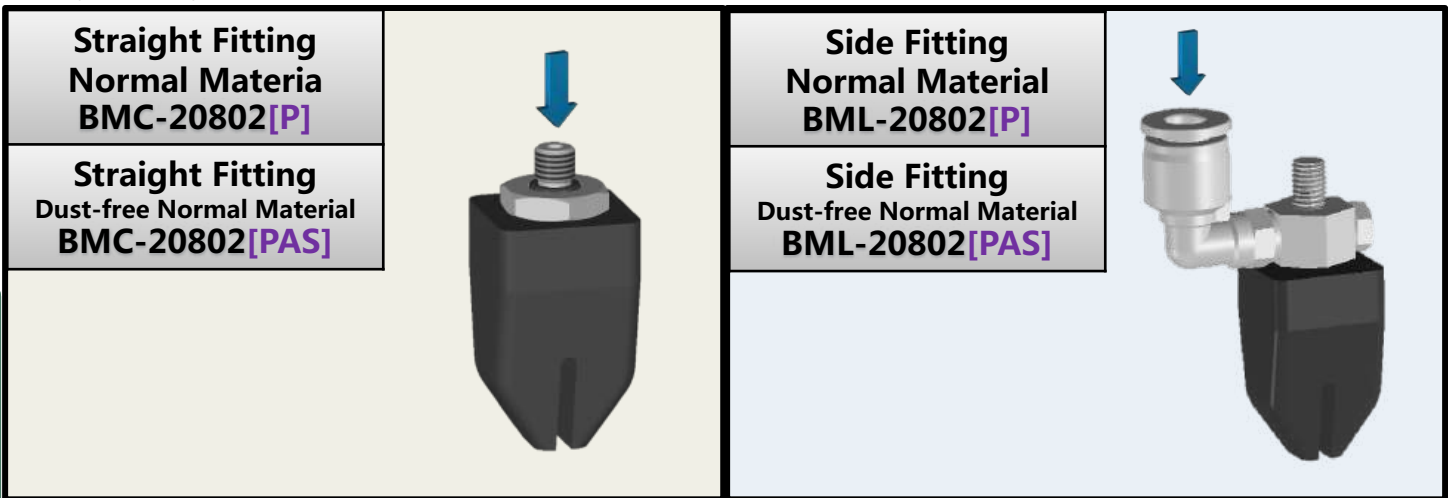
**Photoelectric Sensor**  
Installation



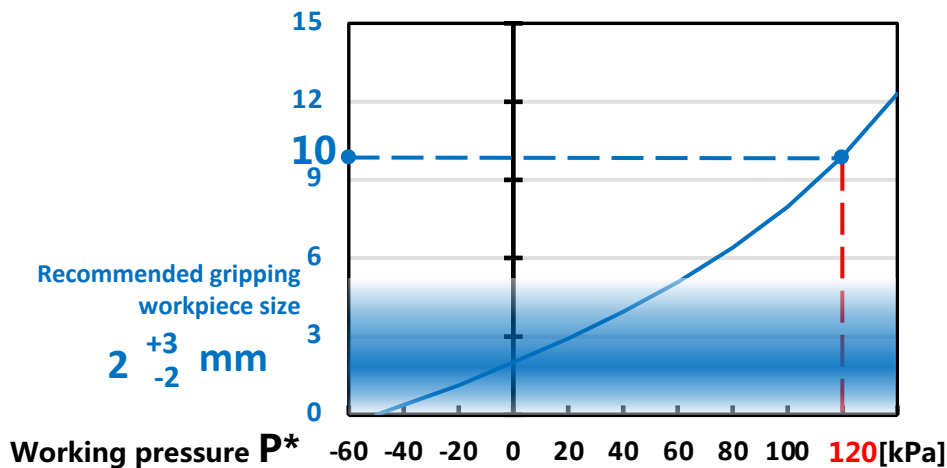


## Product features

- 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.



Gripping fingertip distance **G** [mm]



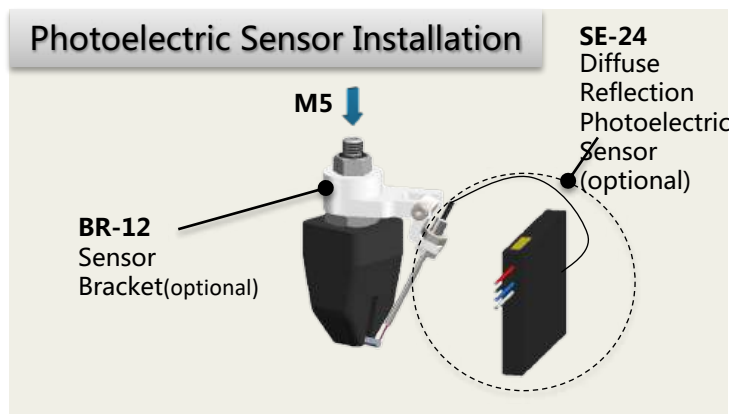
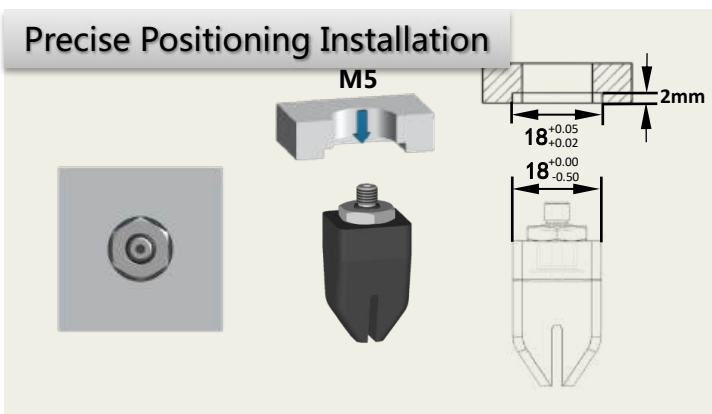
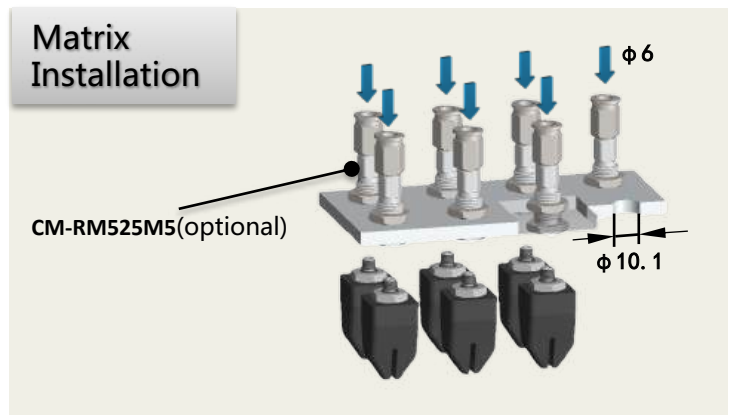
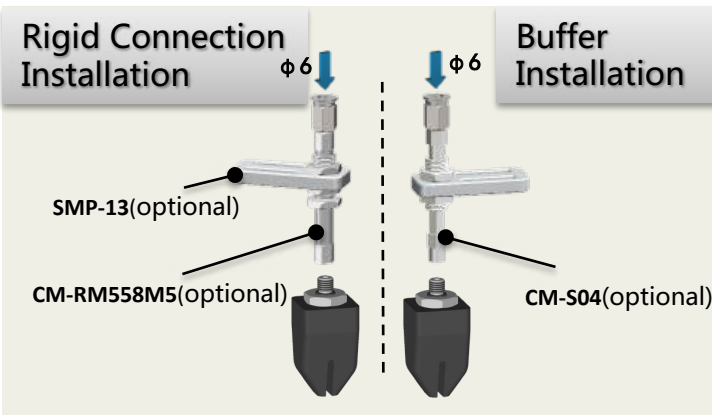
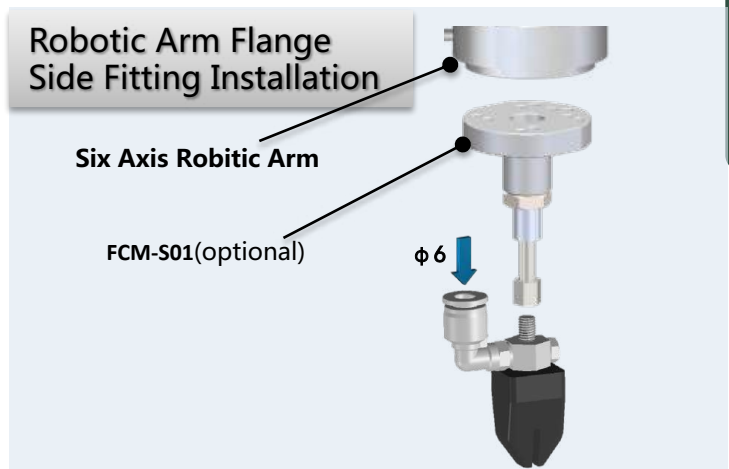
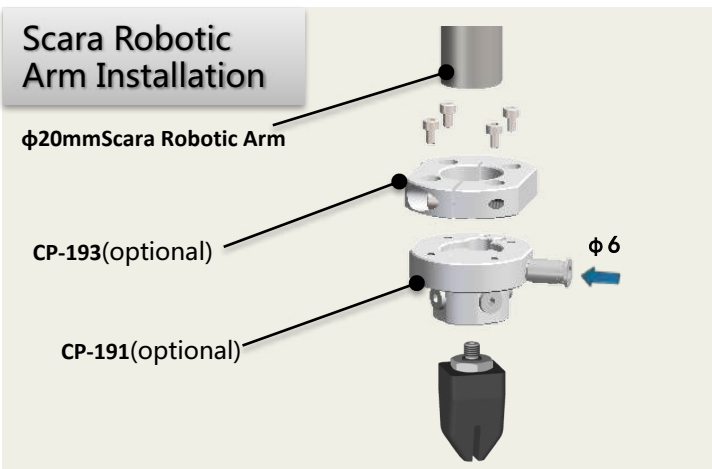
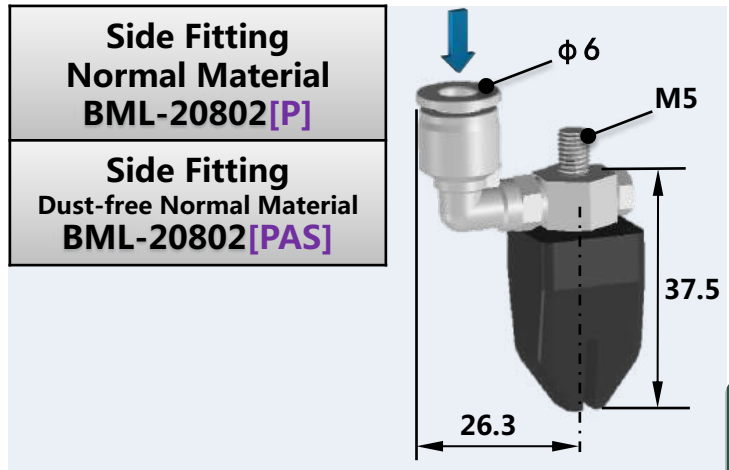
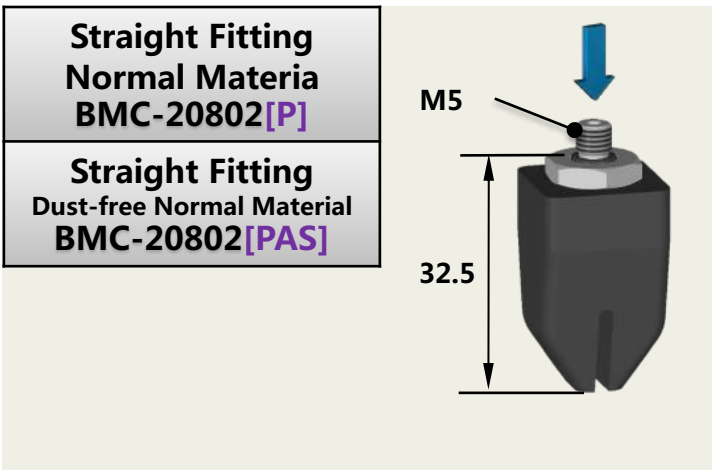
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+120kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	x	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.



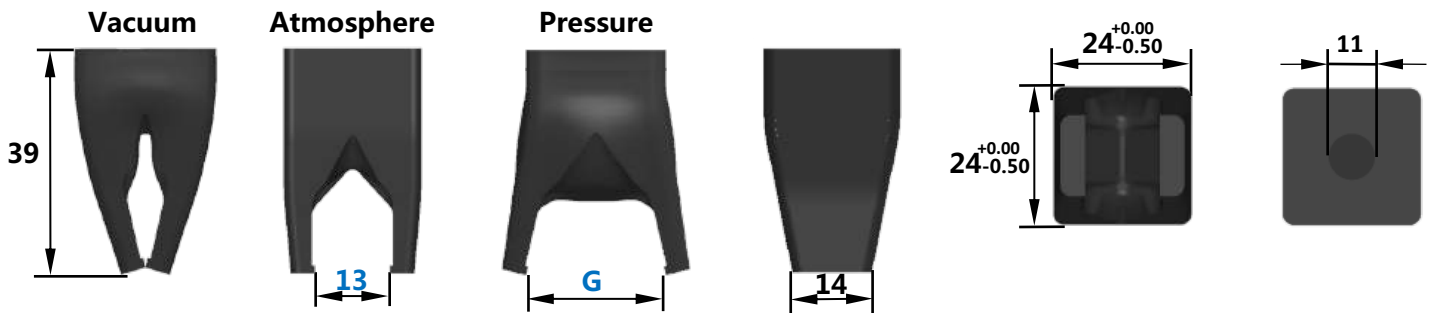
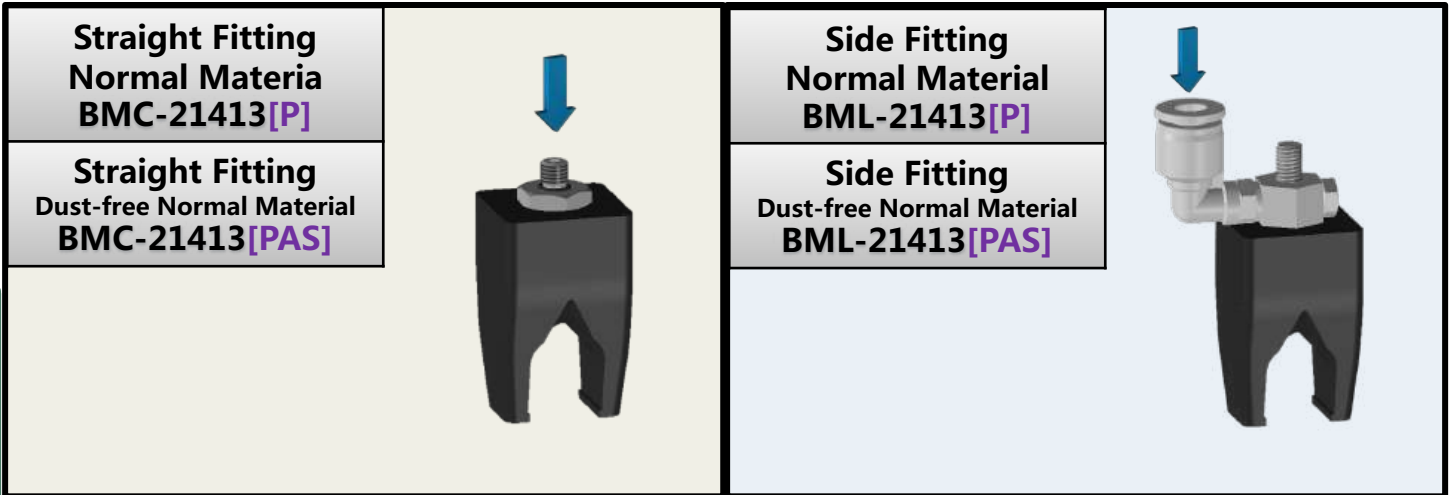
## Installation



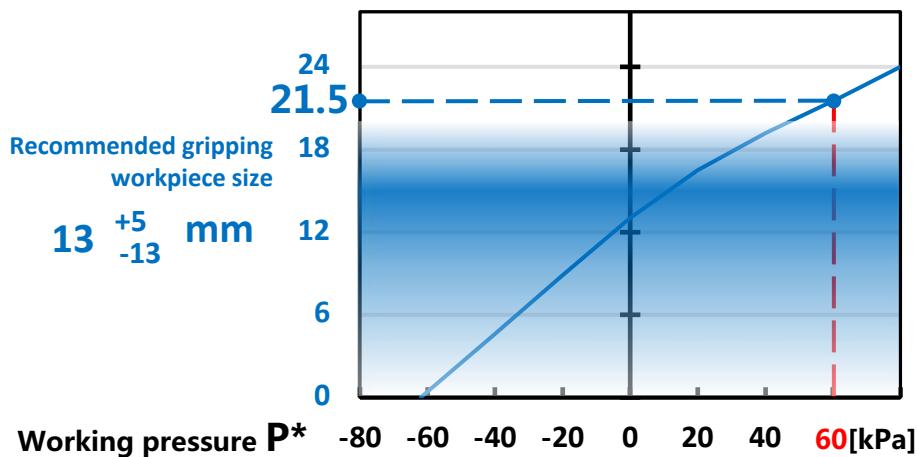


## Product features

- 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.



Gripping fingertip distance **G** [mm]



## Parameter

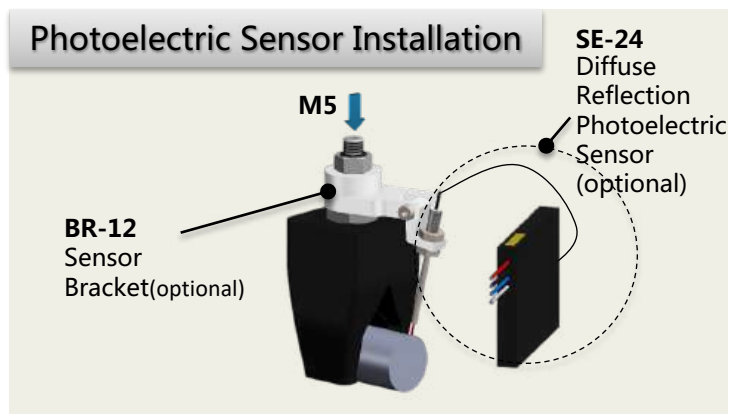
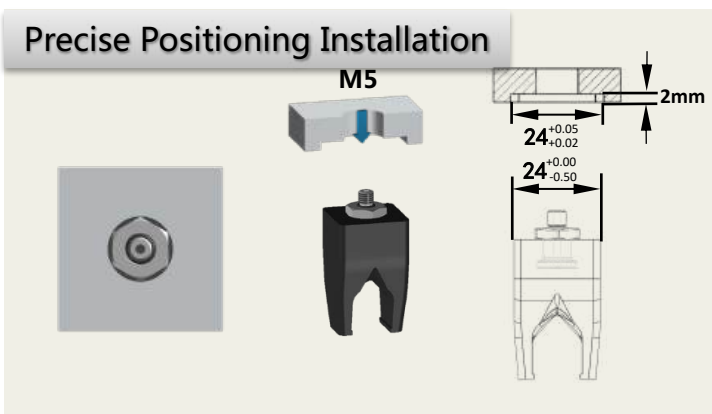
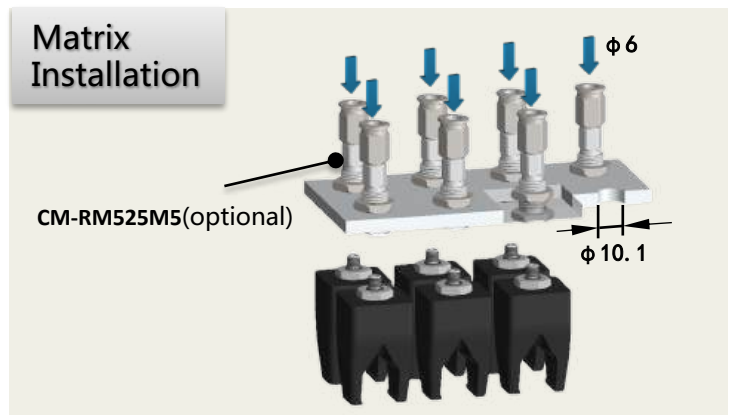
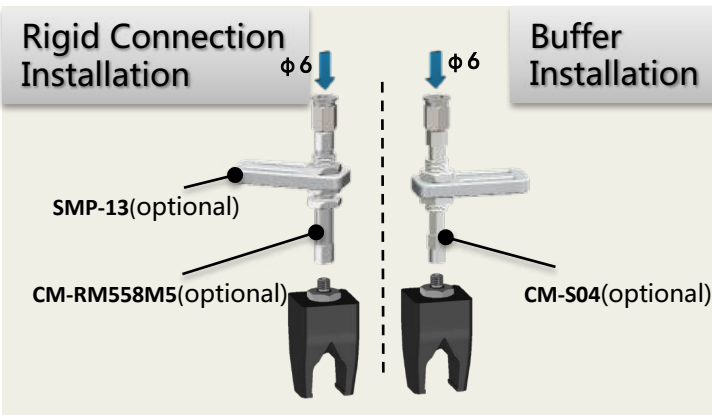
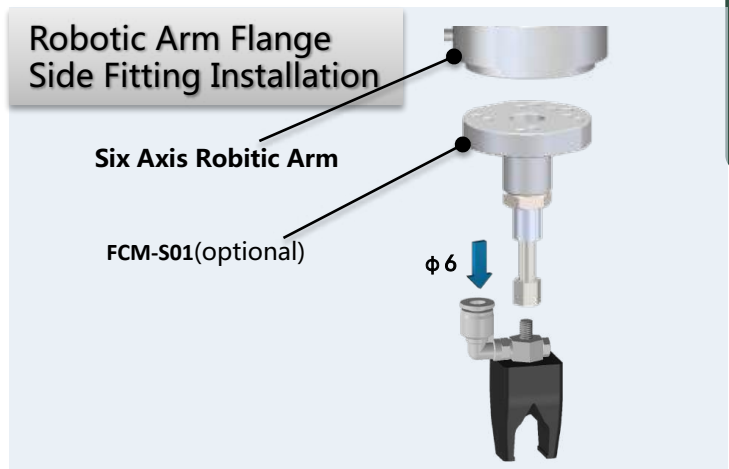
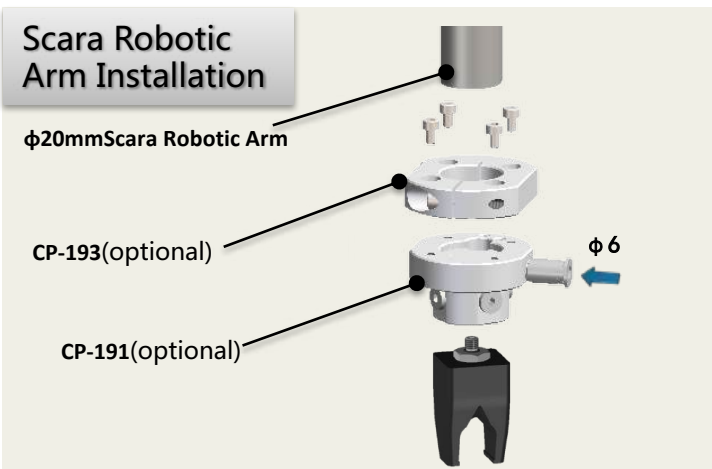
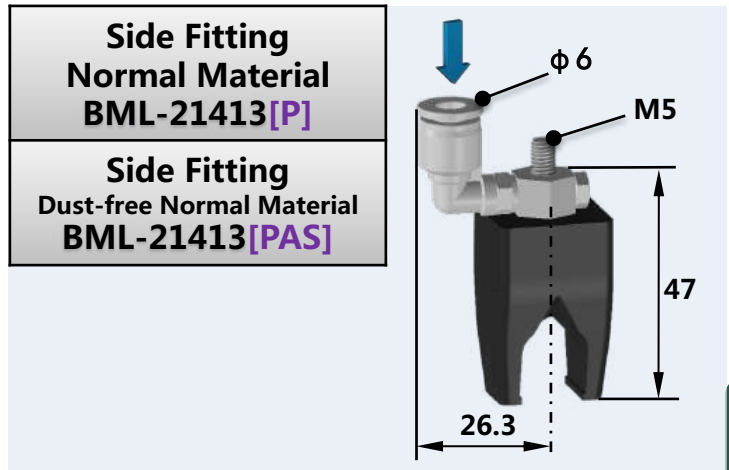
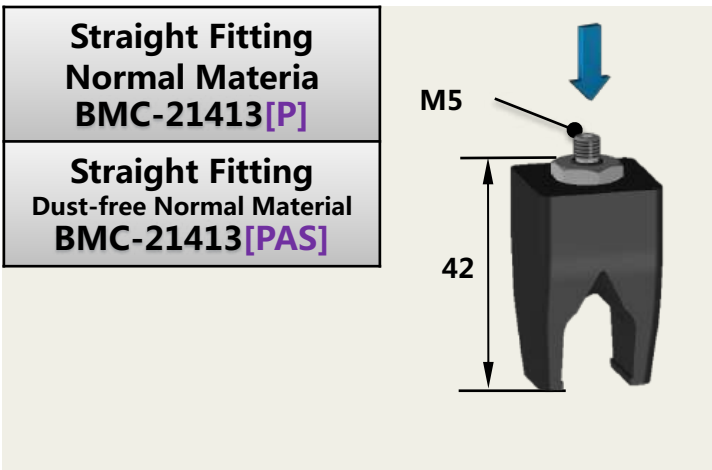
Repetitive Precision	±0.05mm	Recommend-ed Load	50g	Lifetime	1.5 million times*	Safe Pressure	+60kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.5N	Internal gripping force	x	BMC Weight	20.6g	BML Weight	30g

\* : 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.





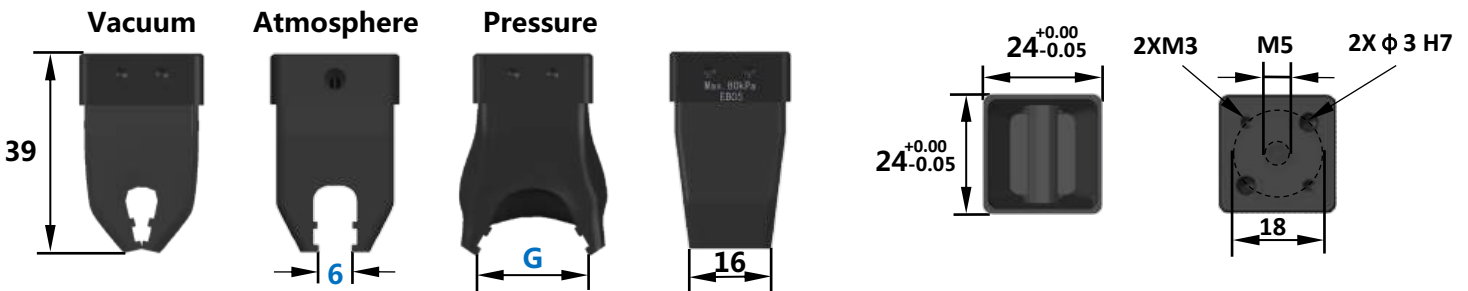
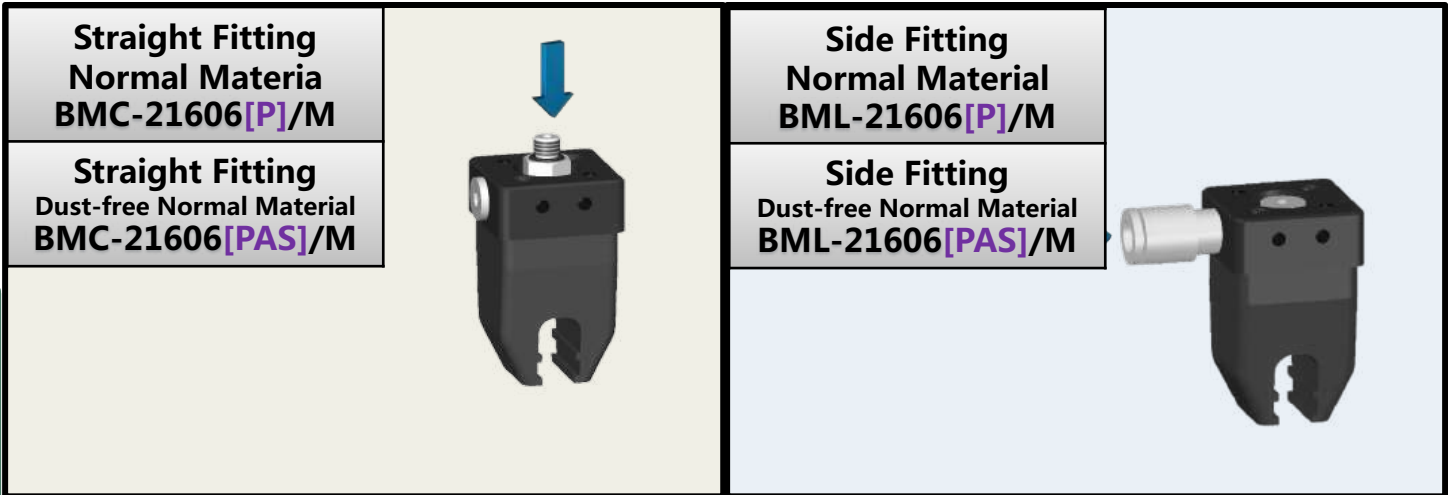
## Installation



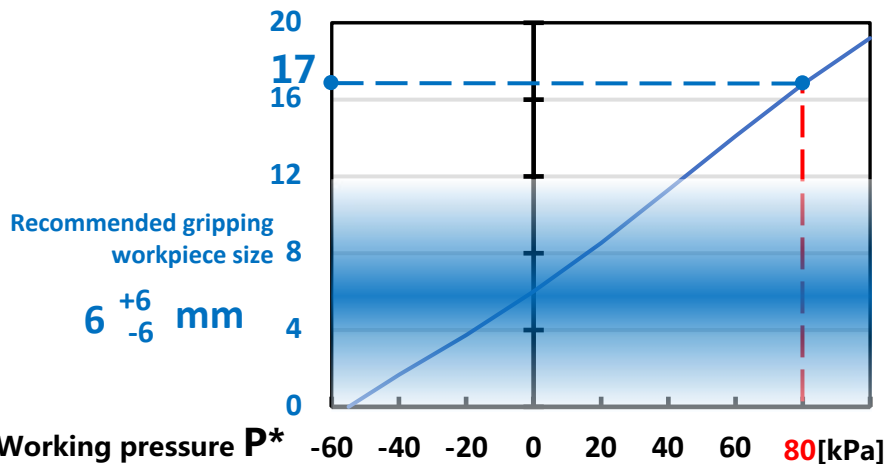


## Product features

- 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.



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°C
Frequency	6times/sec	External gripping force	0-0.3N	Internal gripping force	x	BMC Weight	24g	📦	BML Weight	23g

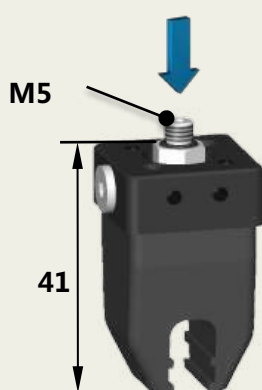
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

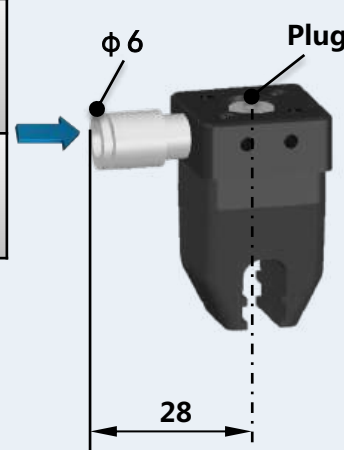
**Straight Fitting  
Normal Material  
BMC-21606[P]/M**

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

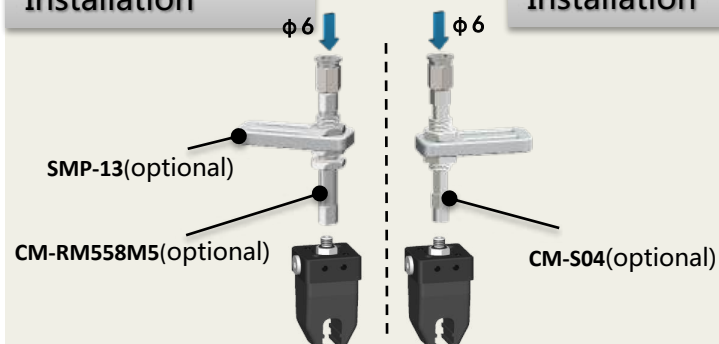


**Side Fitting Normal  
Material  
BML-21606[P]/M**

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

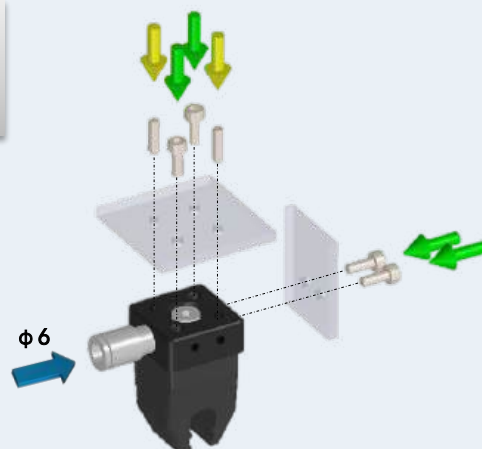


**Rigid Connection  
Installation**

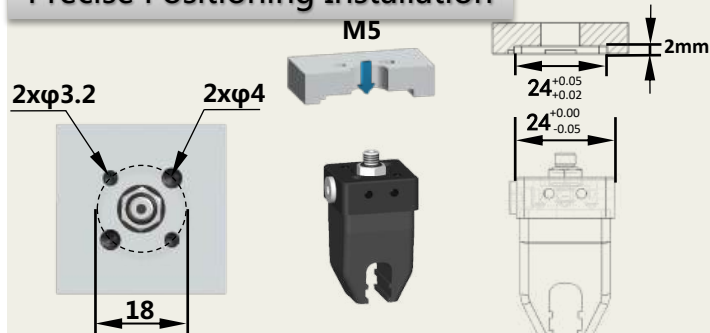


**Buffer  
Installation**

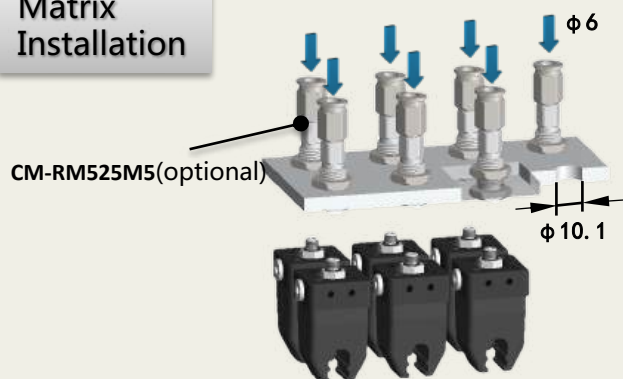
**Side Fitting  
Partition  
Installation**



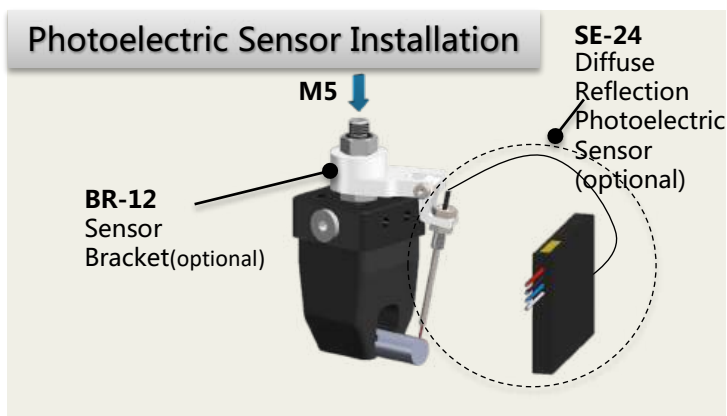
**Precise Positioning  
Installation**



**Matrix  
Installation**



**Photoelectric Sensor  
Installation**





Product features

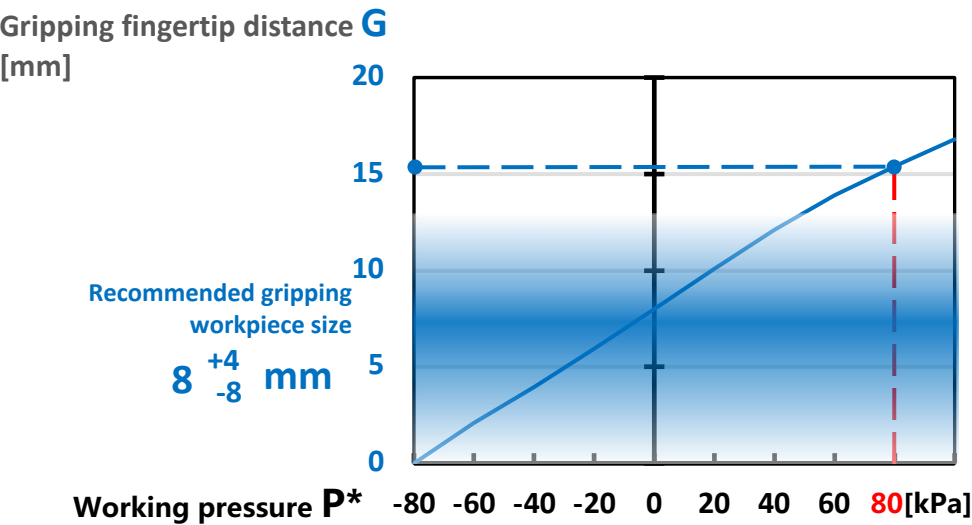
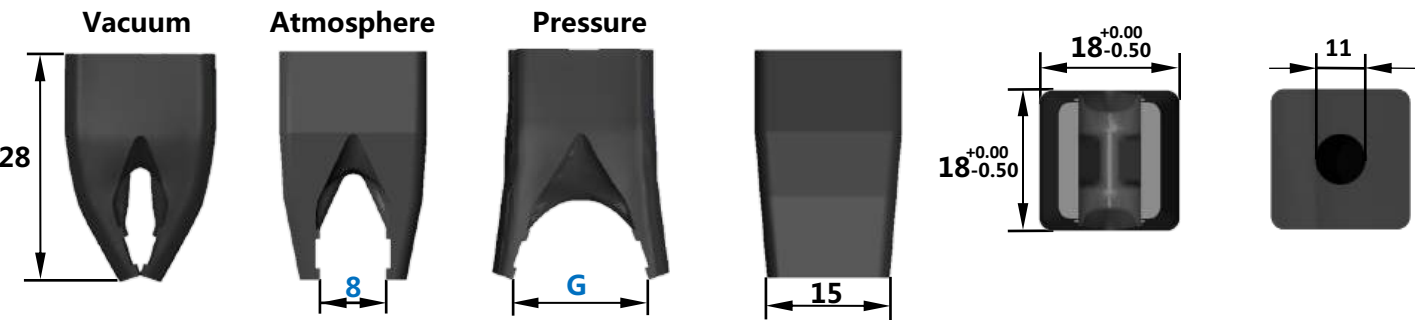
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Fingertip distance **G** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal Material **[PAS]**. When the workpiece is light,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

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]**



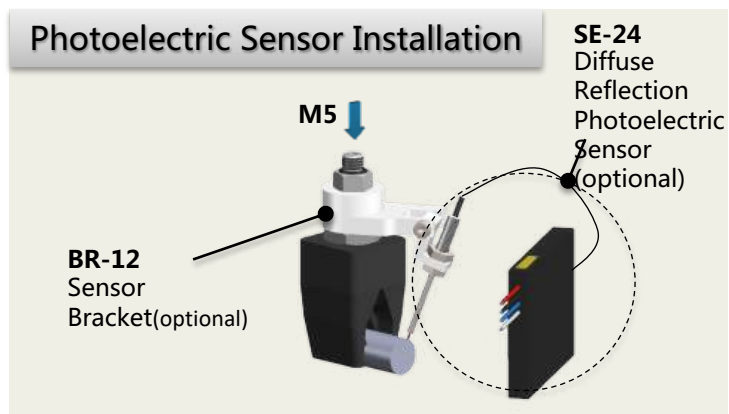
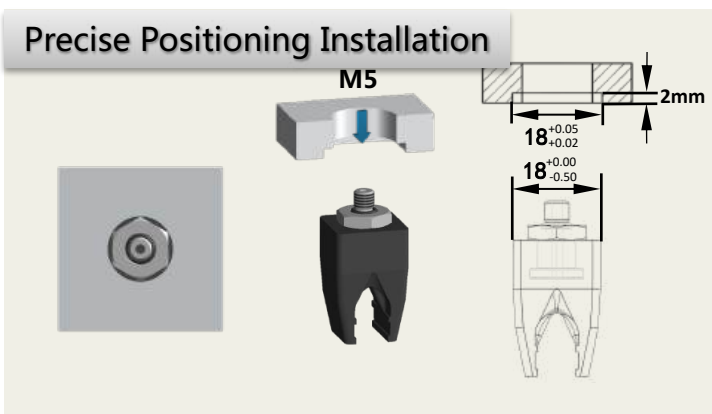
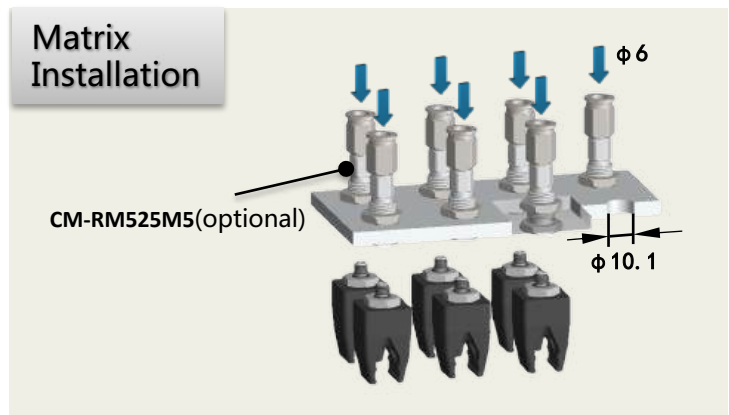
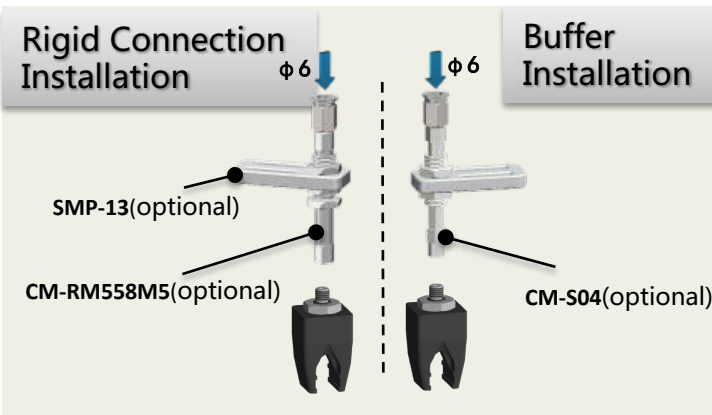
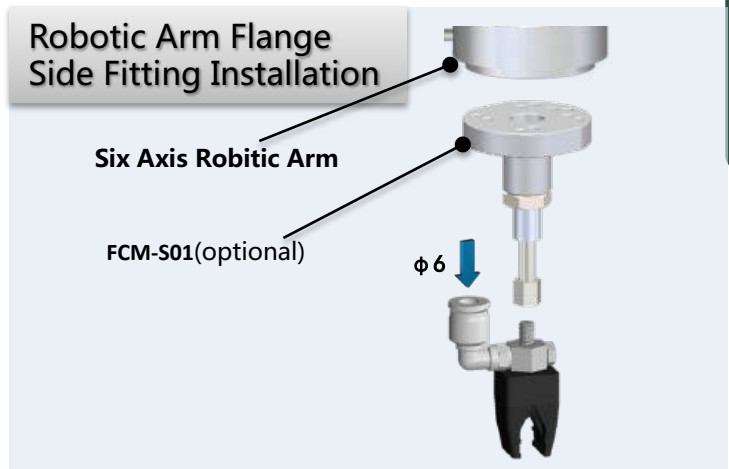
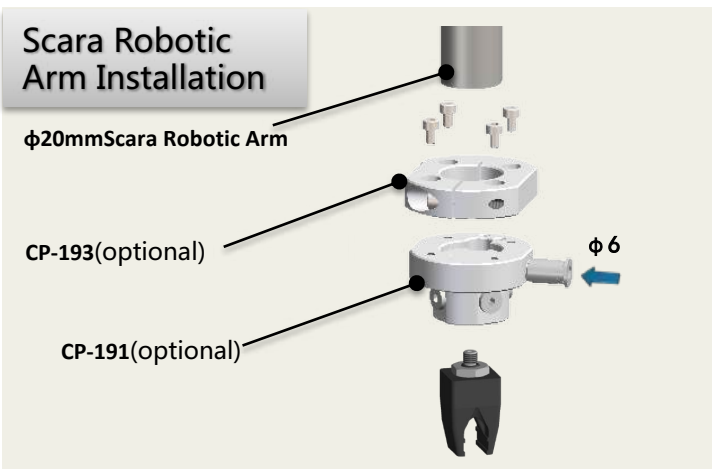
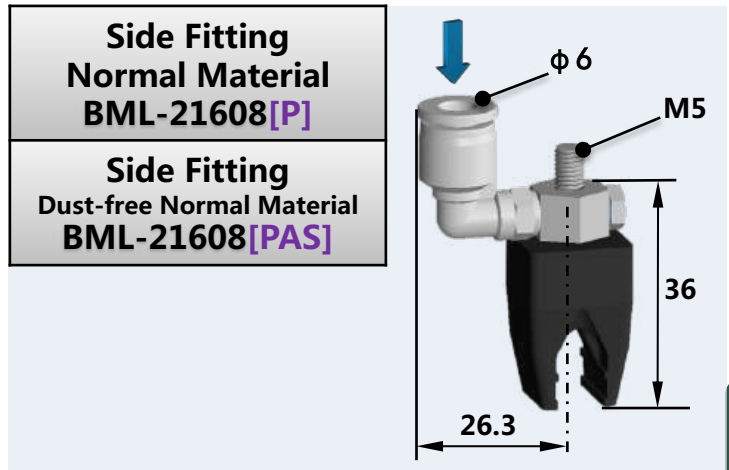
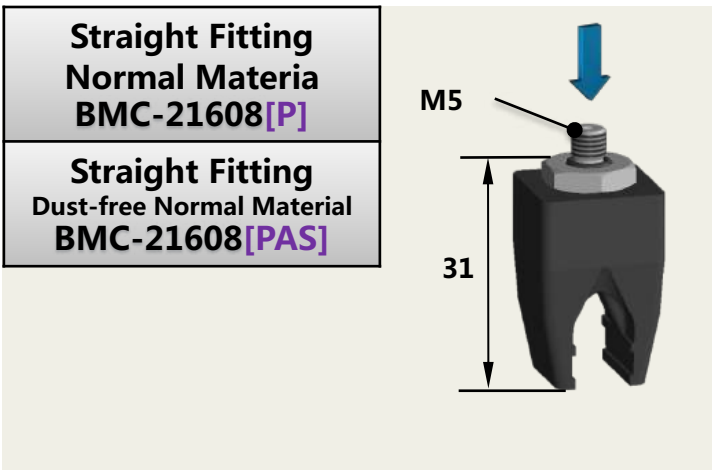
Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+80kPa	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.2N	Internal gripping force	x	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

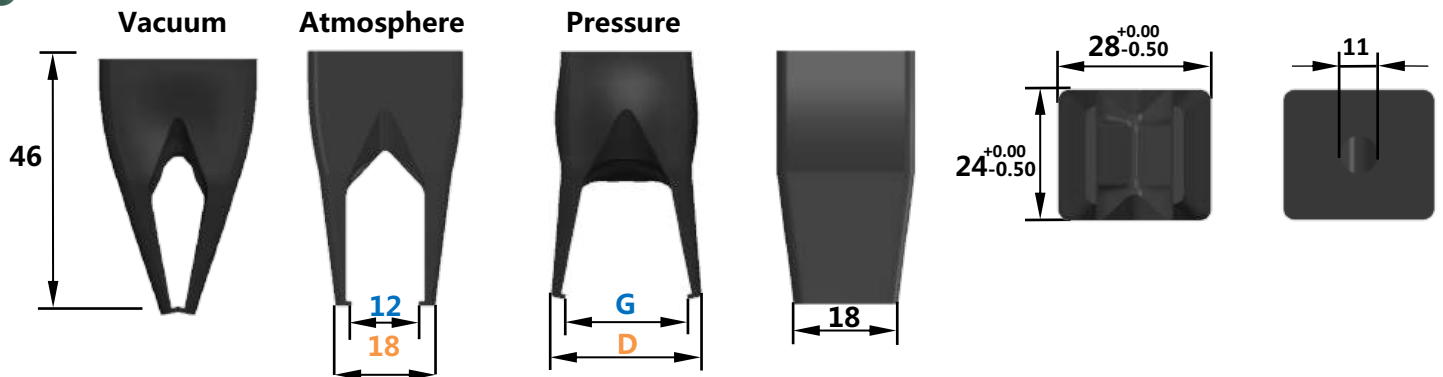
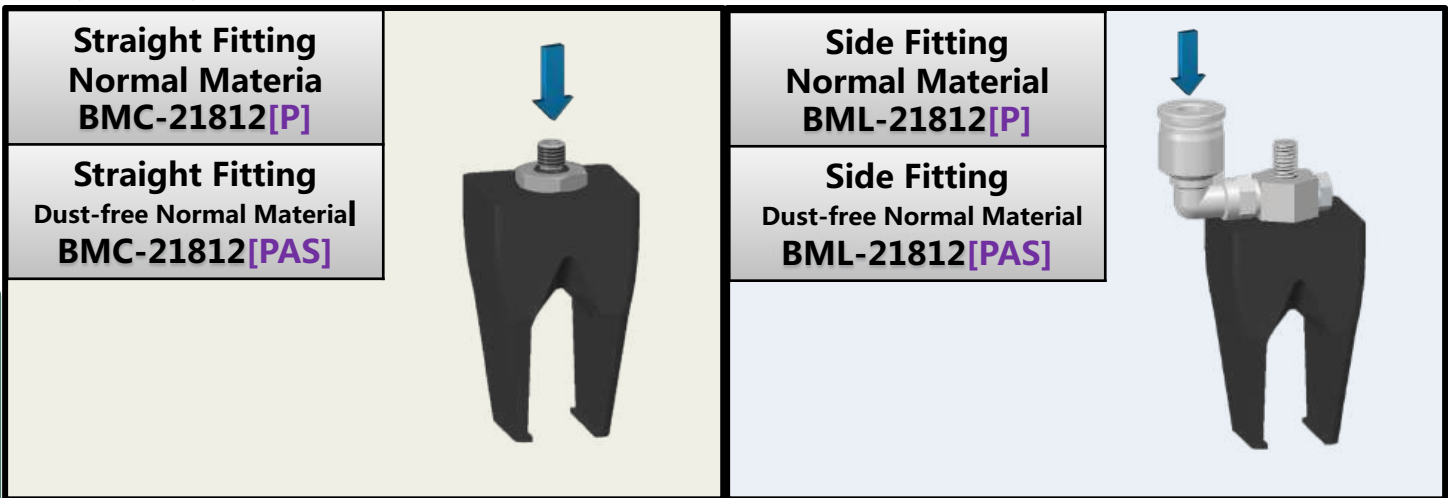




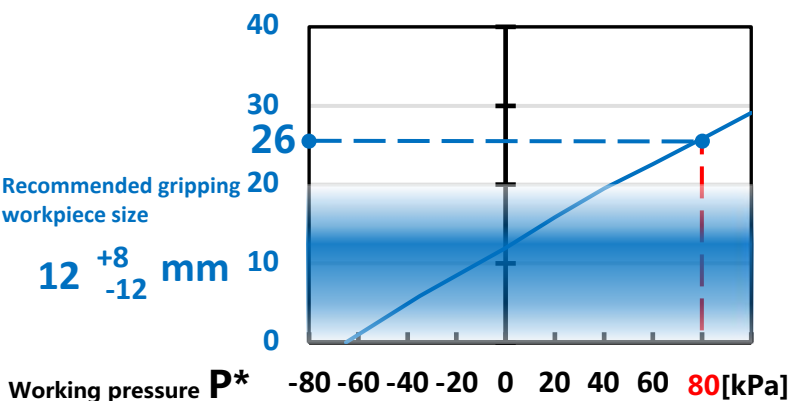


### Product features

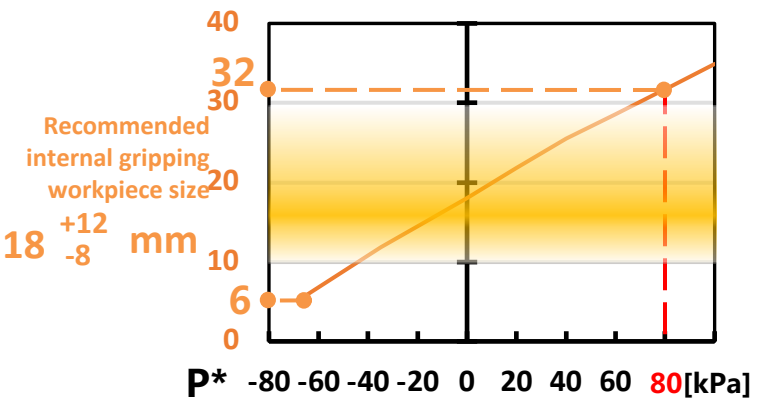
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free 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.



Gripping fingertip distance **G** [mm]



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



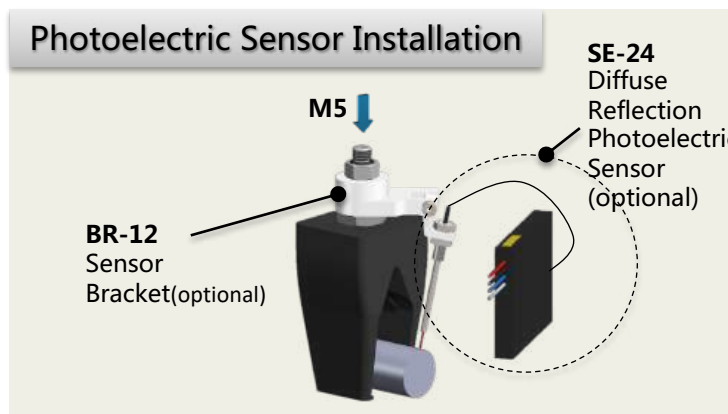
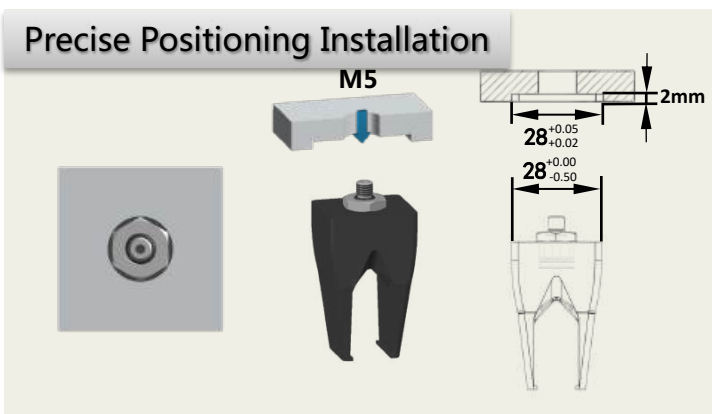
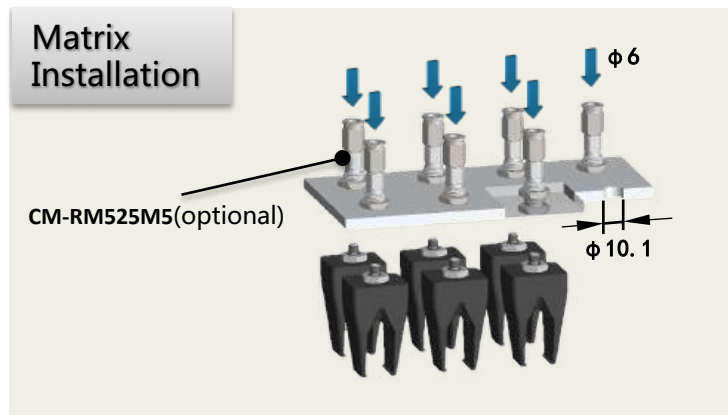
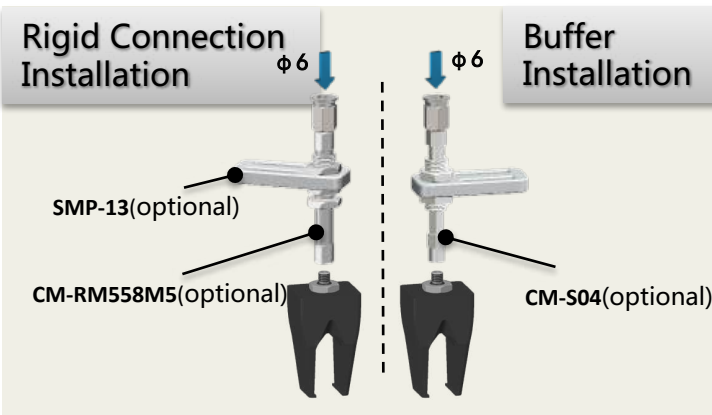
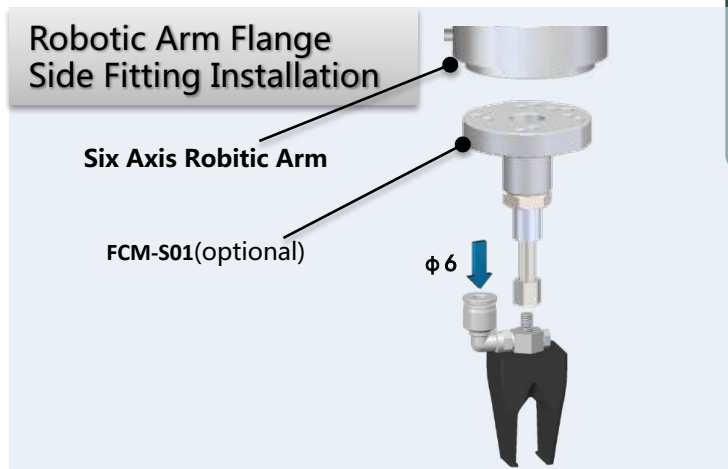
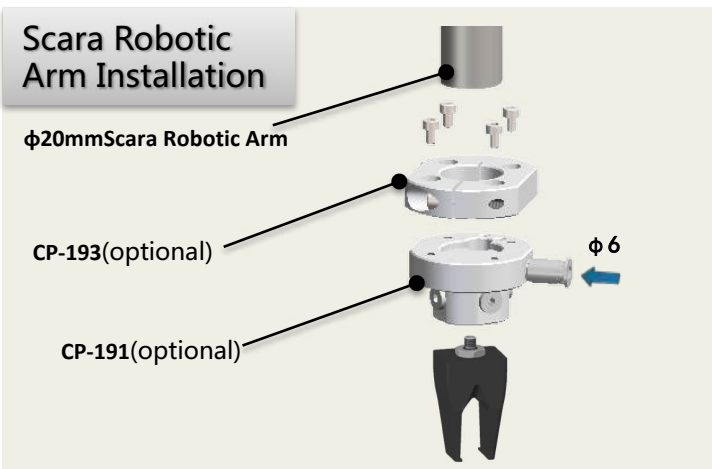
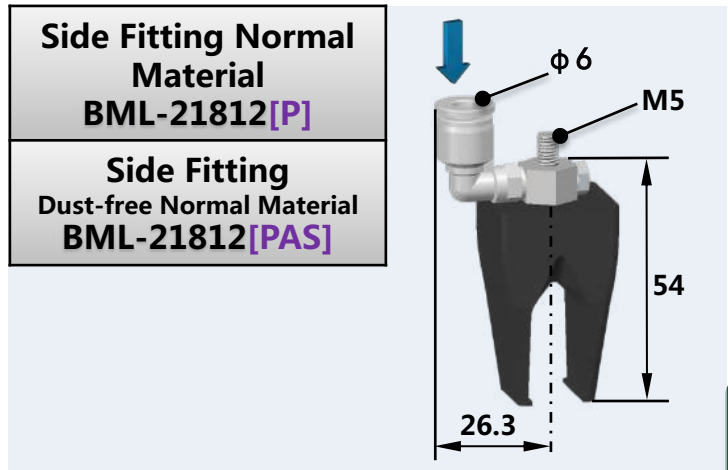
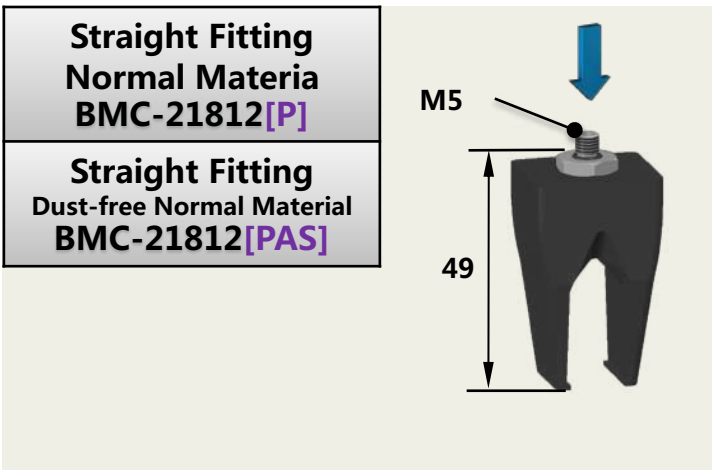
### Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	45g	Lifetime	1.5 million times*	Safe Pressure	+80kPa	⚠	Contact Temperature	180°C
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.



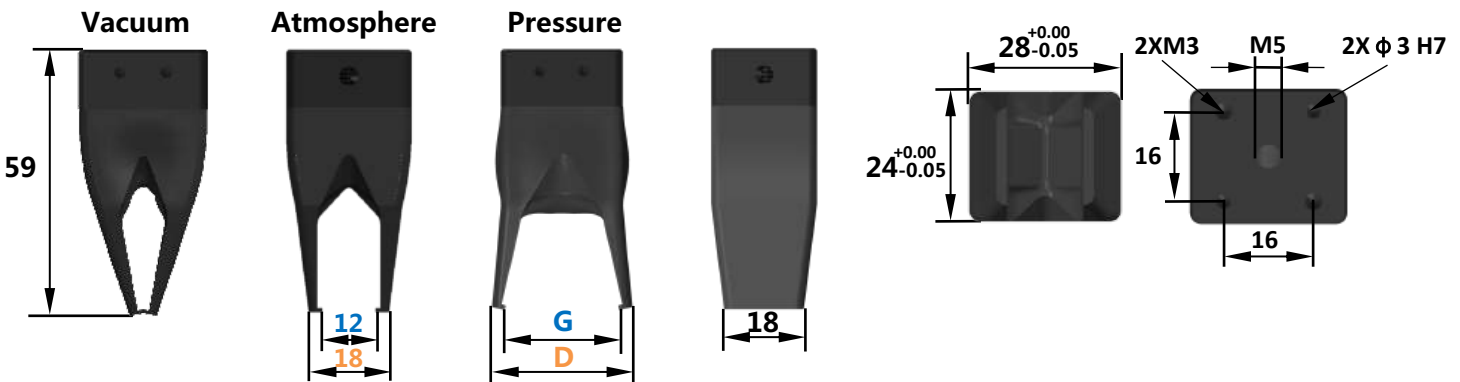
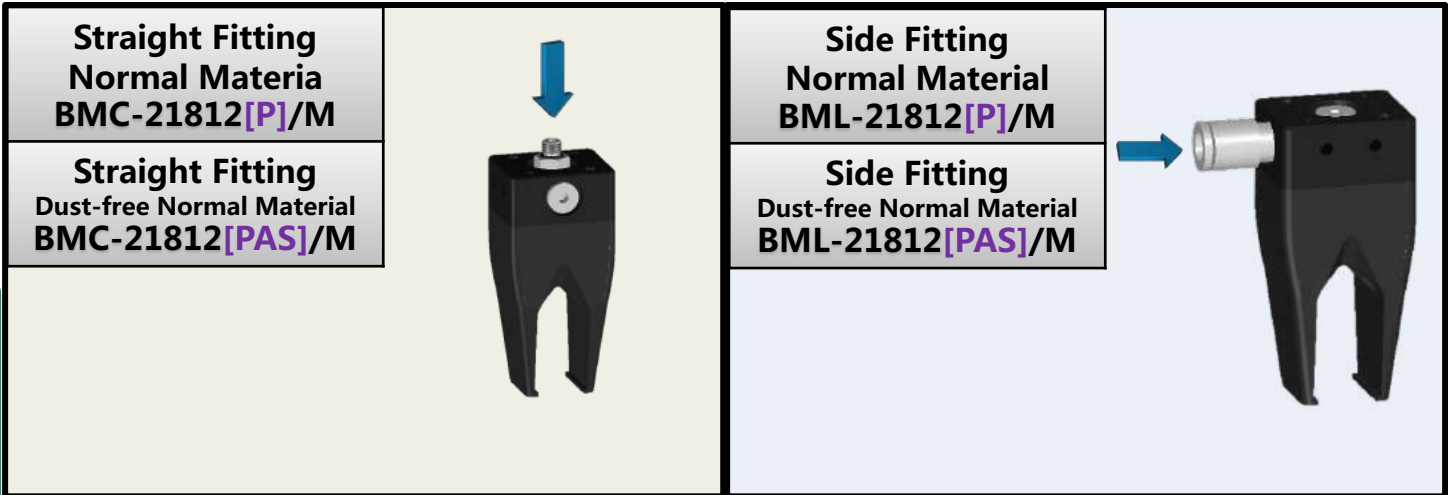
## Installation



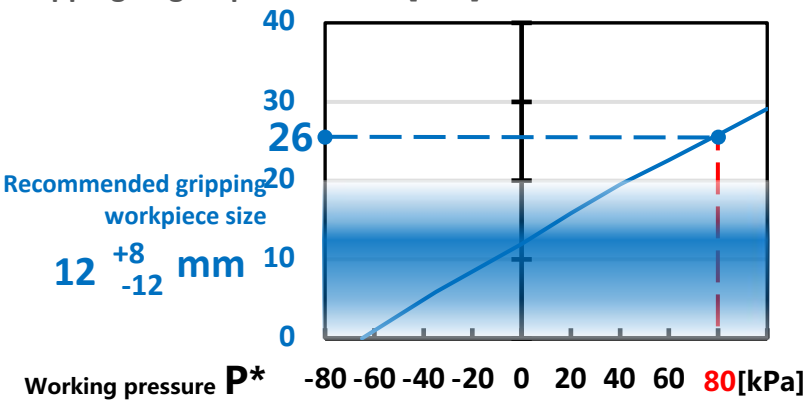


## Product features

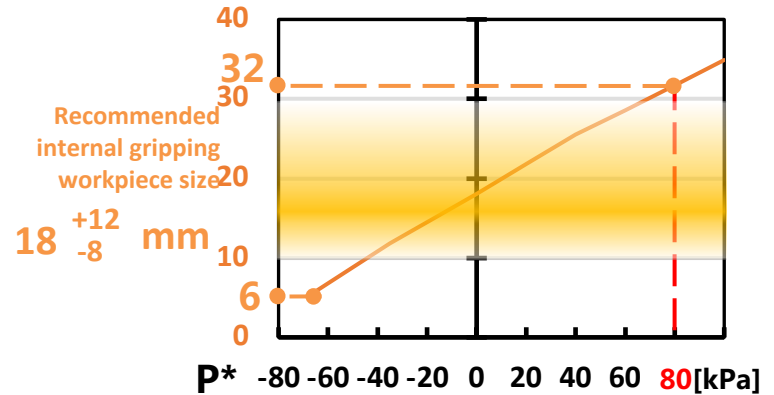
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free 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.



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°C
Frequency	6times/sec	External gripping force	0-0.45N	Internal gripping force	0-1N	BMC Weight	40g	BML Weight	50g

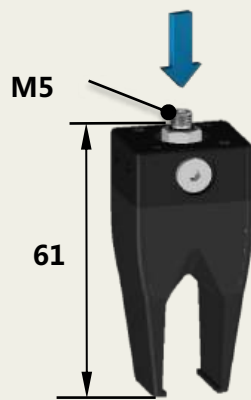
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

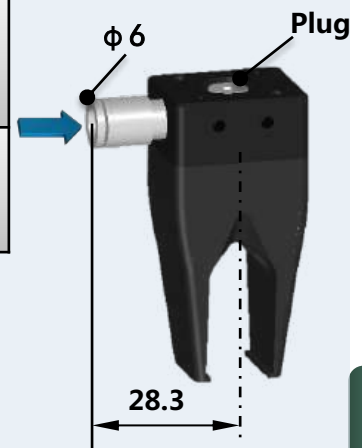
**Straight Fitting**  
Normal Material  
BMC-21812[P]/M

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



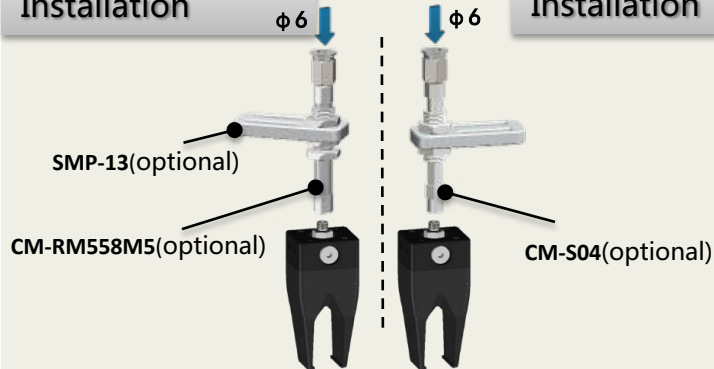
**Side Fitting**  
Normal Material  
BML-21812[P]/M

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

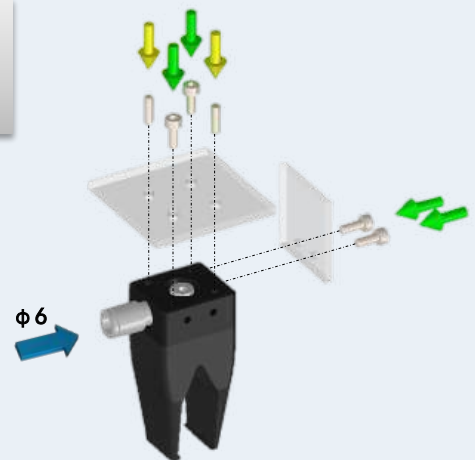


**Rigid Connection**  
Installation

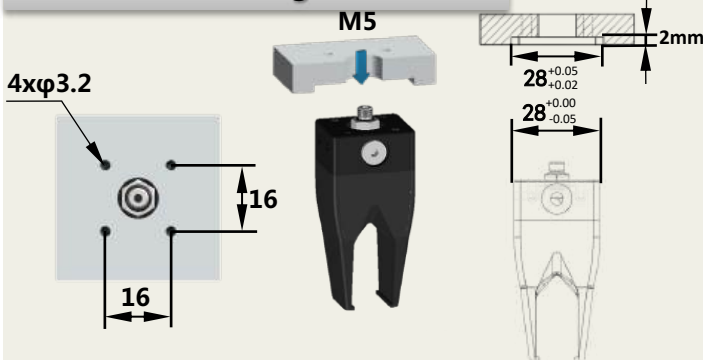
**Buffer**  
Installation



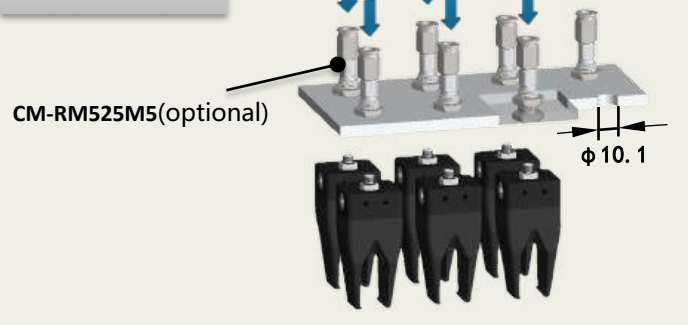
**Side Fitting**  
Partition  
Installation



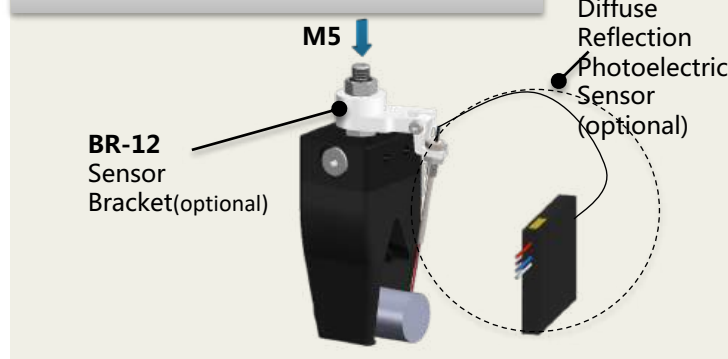
**Precise Positioning**  
Installation



**Matrix**  
Installation



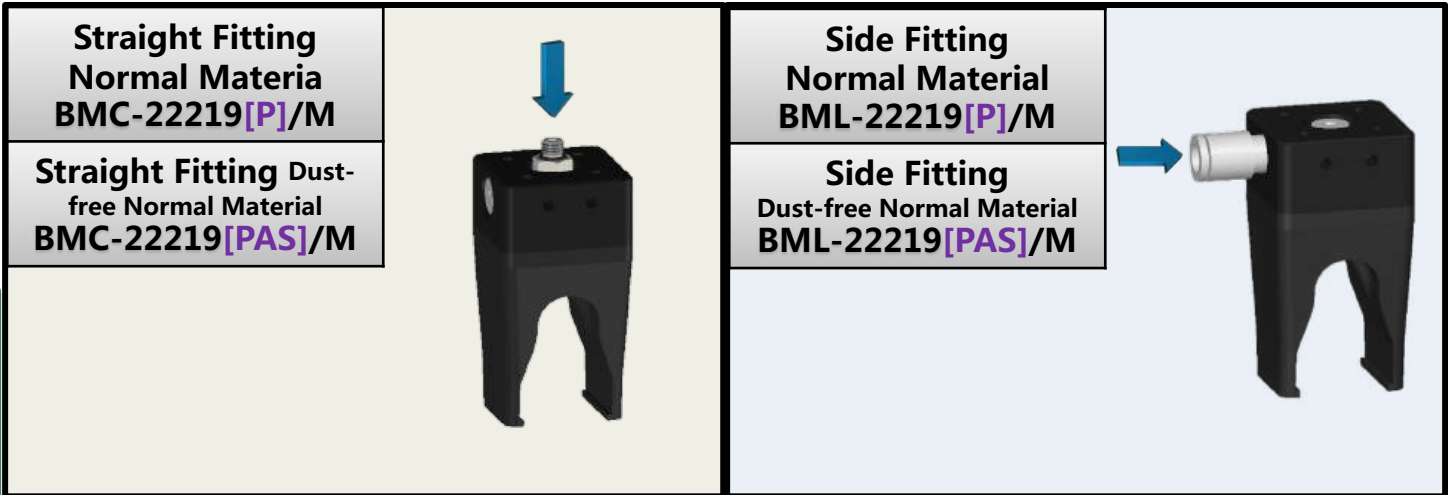
**Photoelectric Sensor**  
Installation



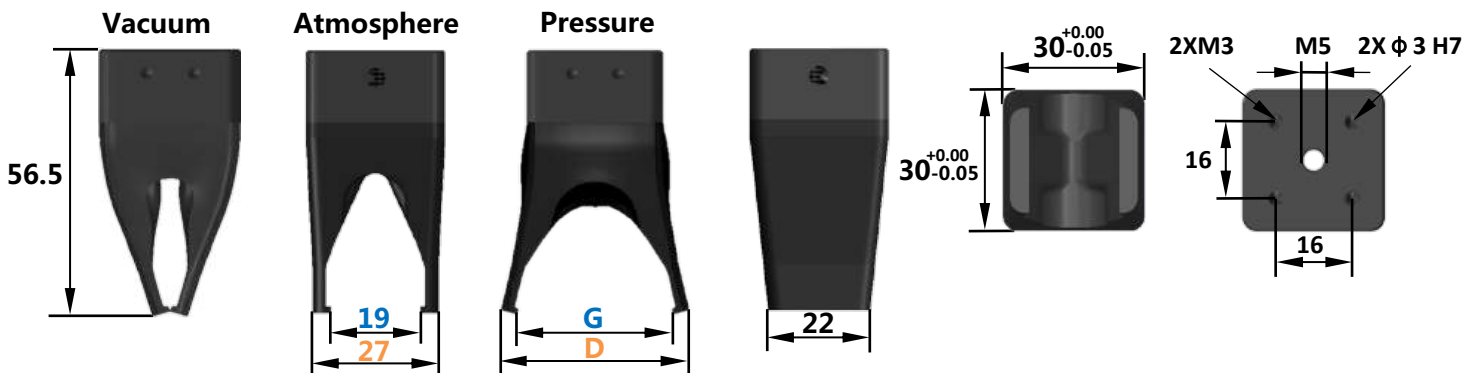
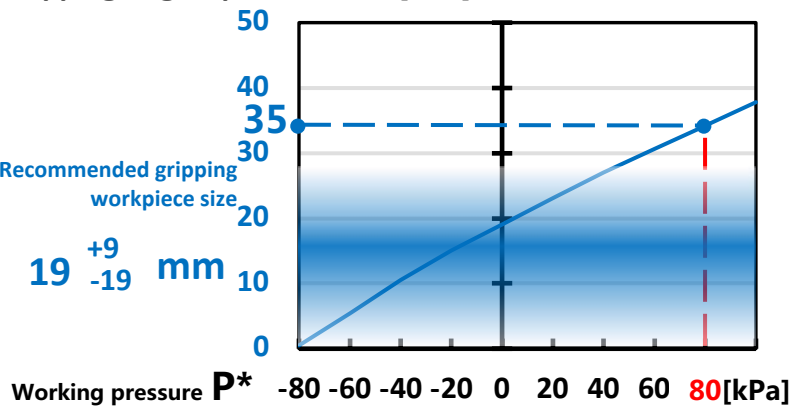
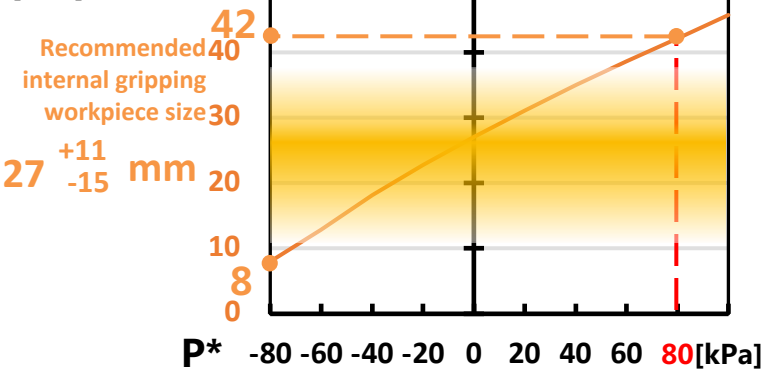


## Product features

- 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.



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	+80kPa	⚠	Contact Temperature	180°C
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.

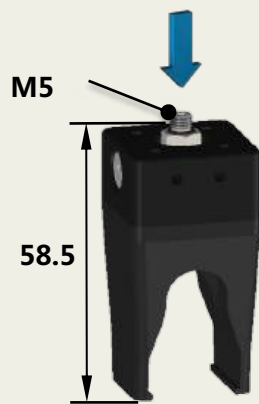




## Installation

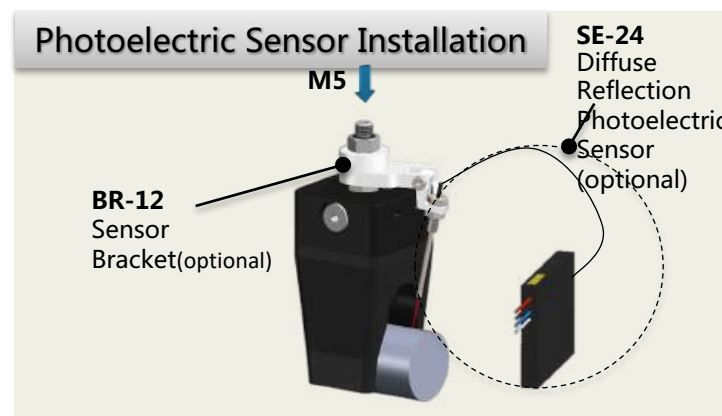
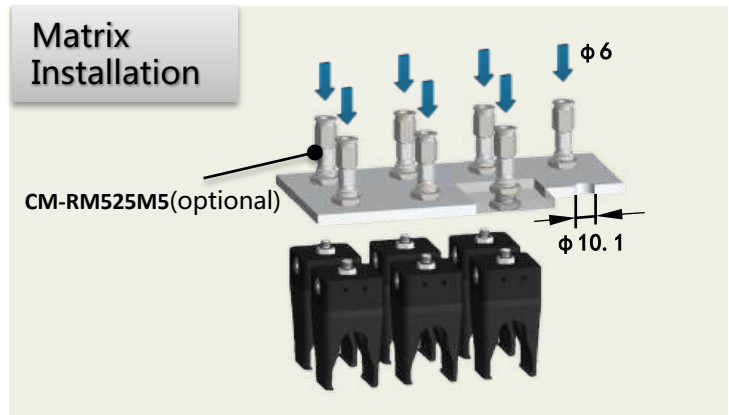
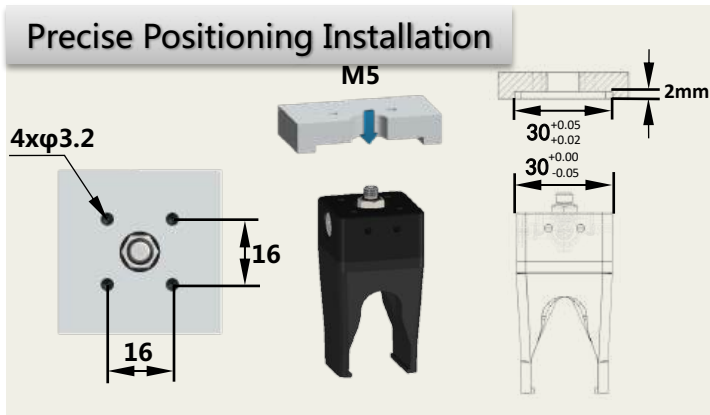
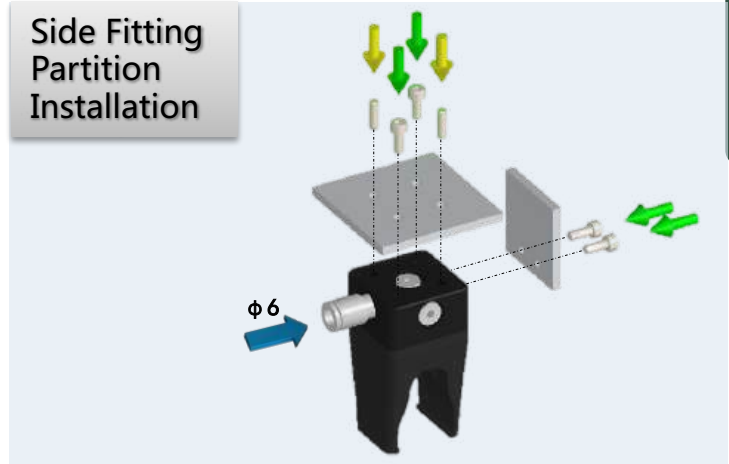
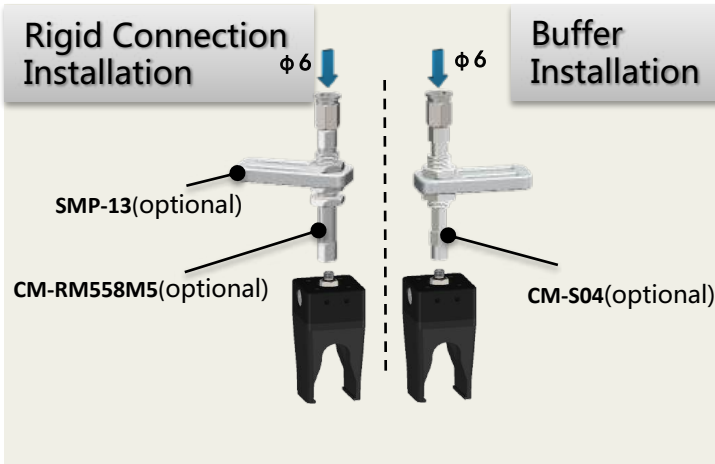
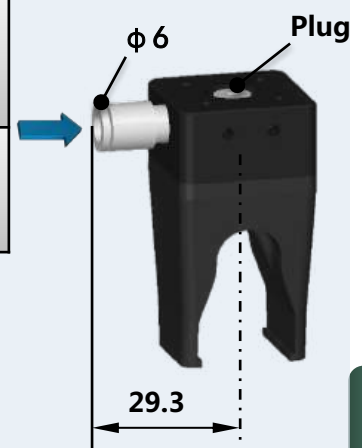
**Straight Fitting**  
Normal Material  
BMC-22219[P]/M

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



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

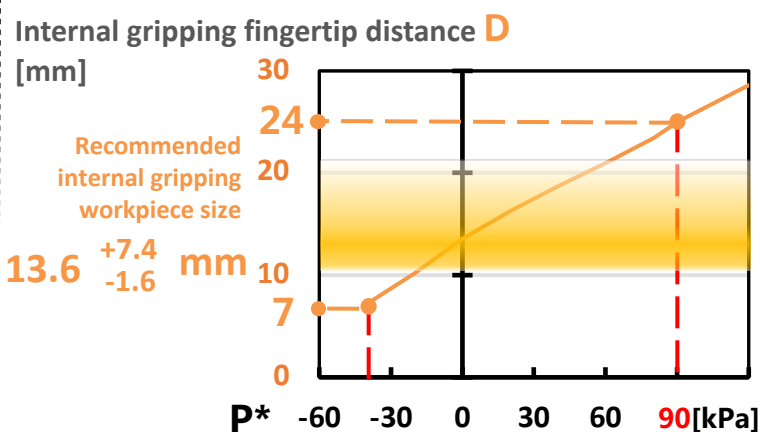
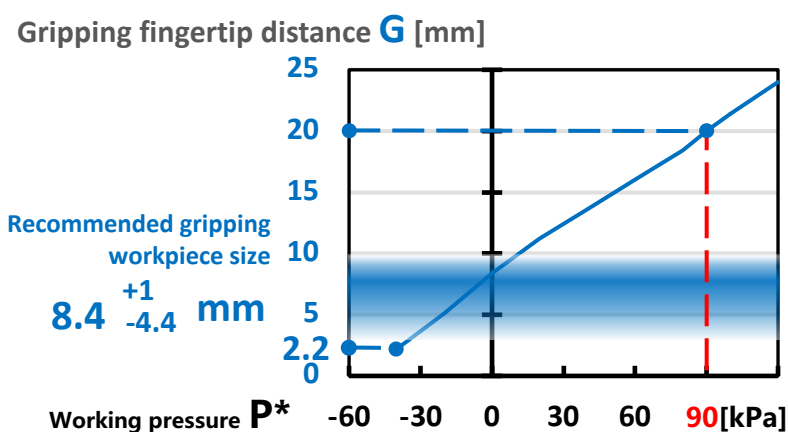
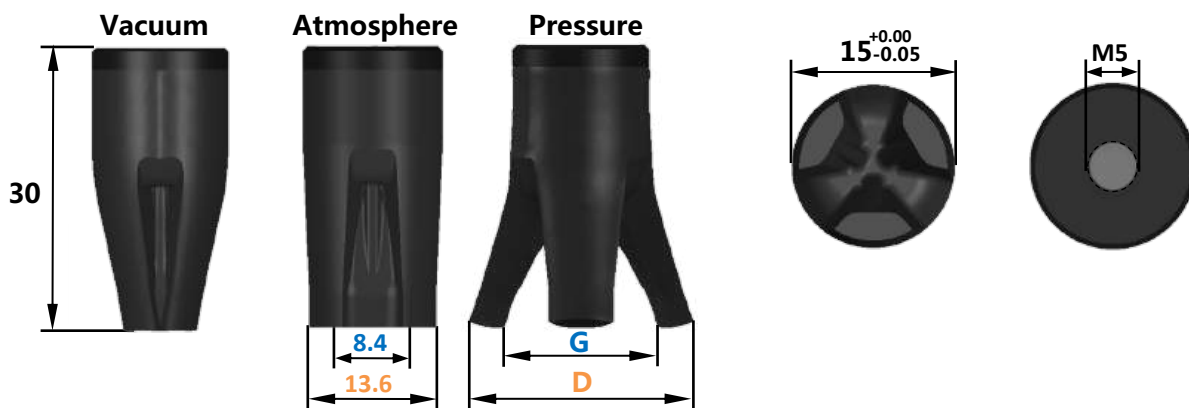
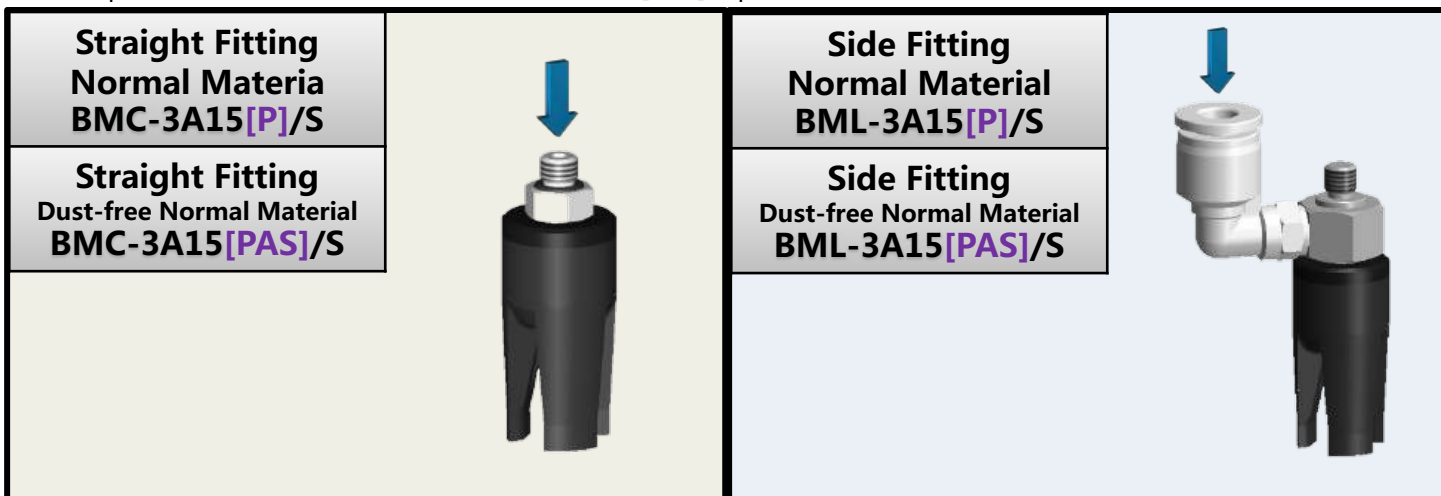
**Side Fitting**  
Dust-free Normal Material  
BML-22219[PAS]/M





## 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.



## Parameter

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

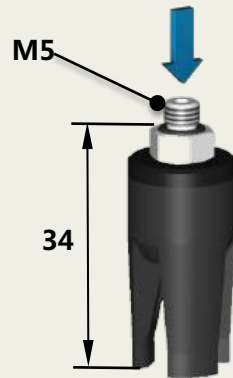
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

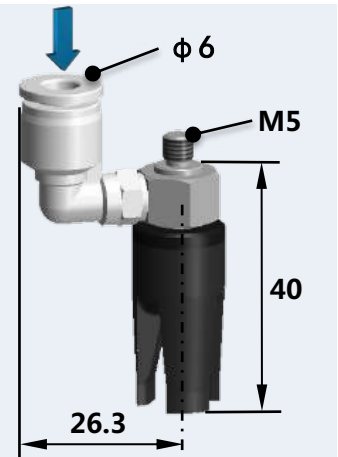
**Straight Fitting**  
Normal Material  
BMC-3A15[P]/S

**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

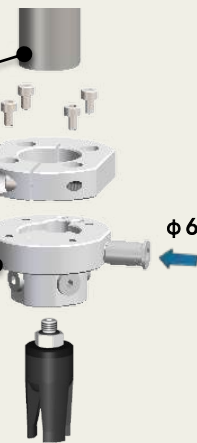


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

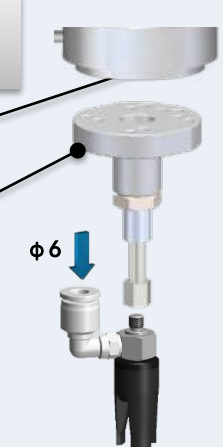
CP-191(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

φ6

SMP-13(optional)

CM-RM558M5(optional)



### Buffer Installation

φ6

CM-S04(optional)

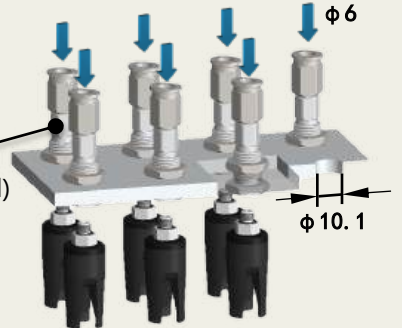


### Matrix Installation

CM-RM525M5(optional)

φ6

φ10.1



### Precise Positioning Installation

M5

2mm

15<sup>+0.05</sup><sub>+0.02</sub>

15<sup>+0.00</sup><sub>-0.05</sub>

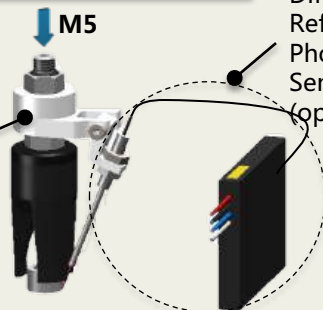


### Photoelectric Sensor Installation

SE-24  
Diffuse  
Reflection  
Photoelectric  
Sensor  
(optional)

BR-12  
Sensor  
Bracket(optional)

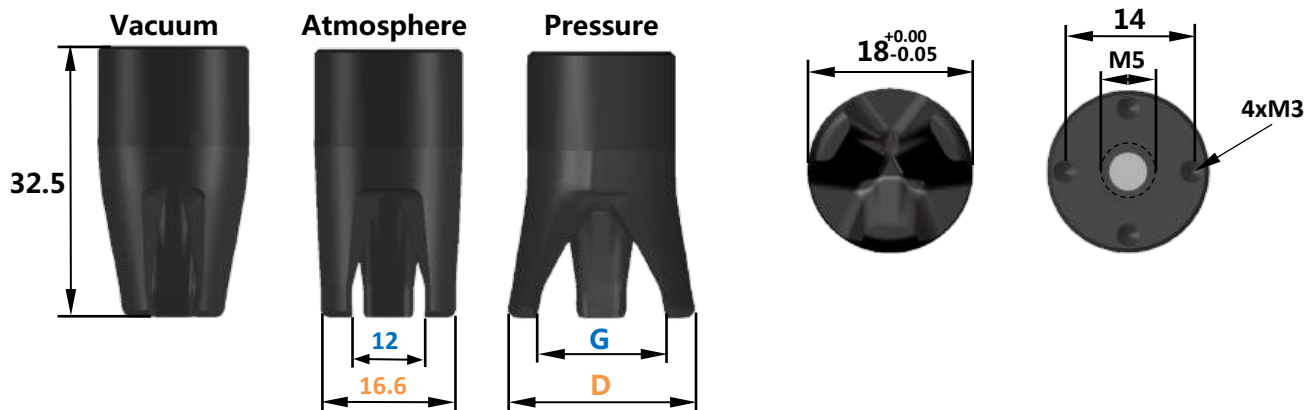
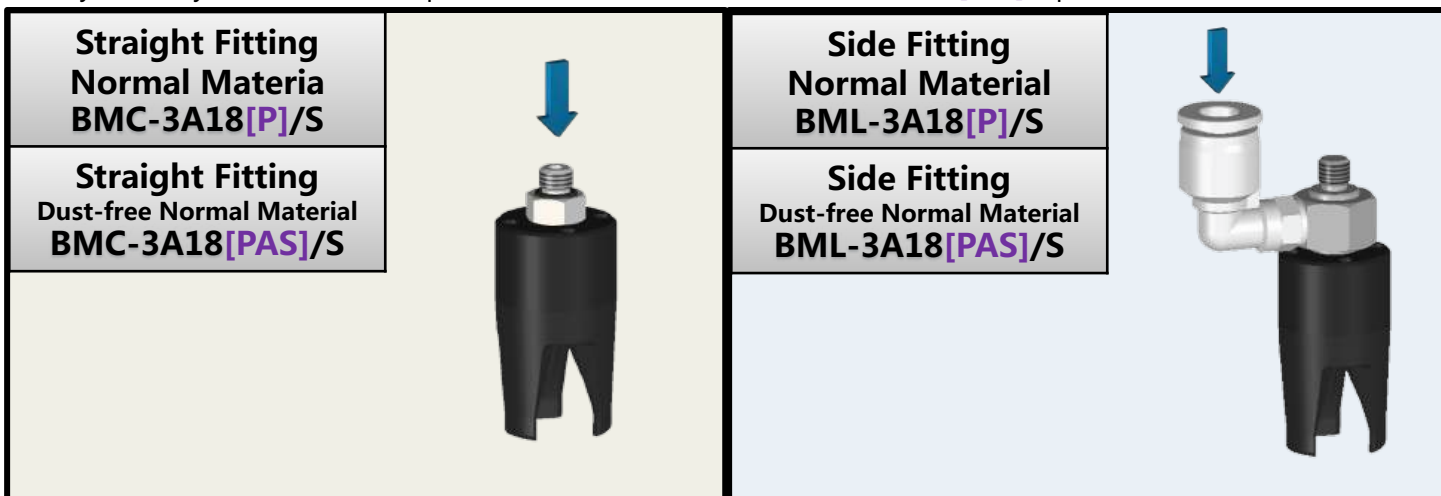
M5



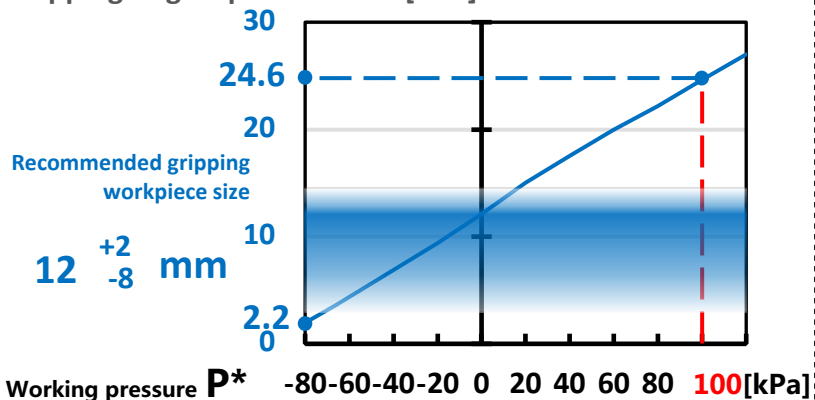


## Product features

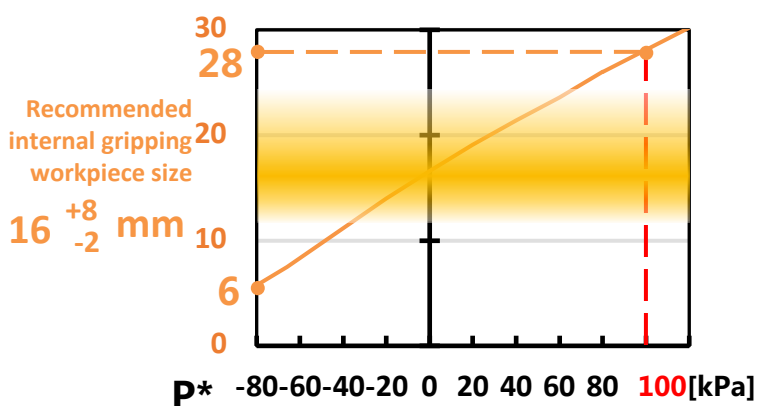
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free 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.



Gripping fingertip distance **G** [mm]



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



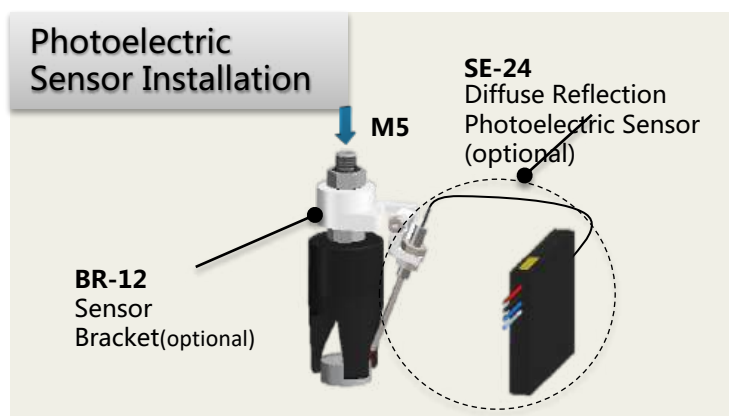
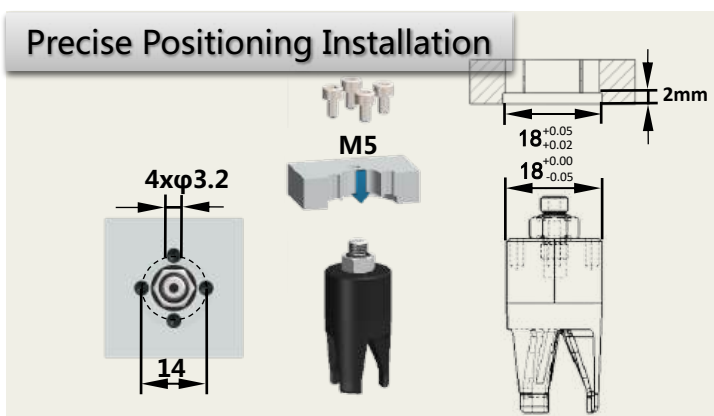
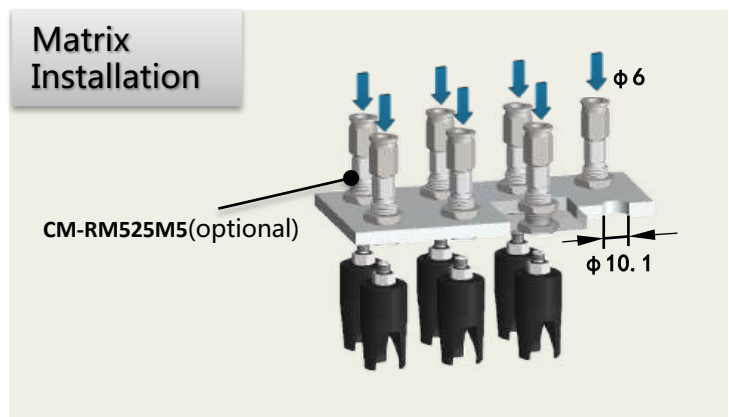
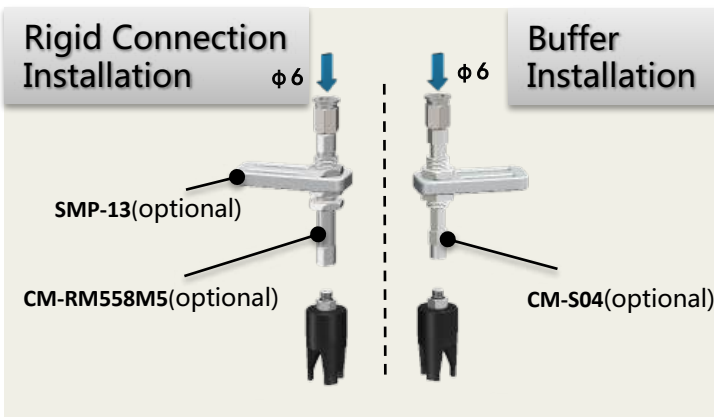
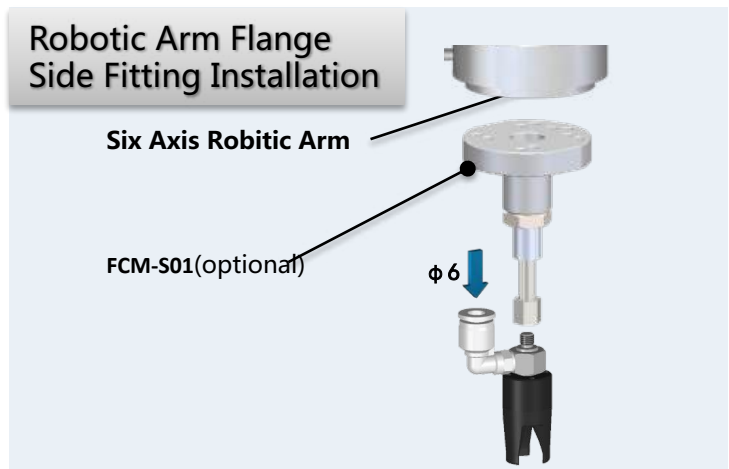
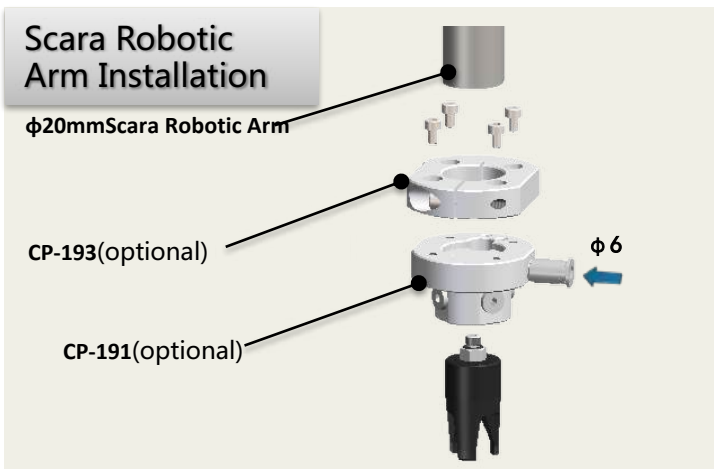
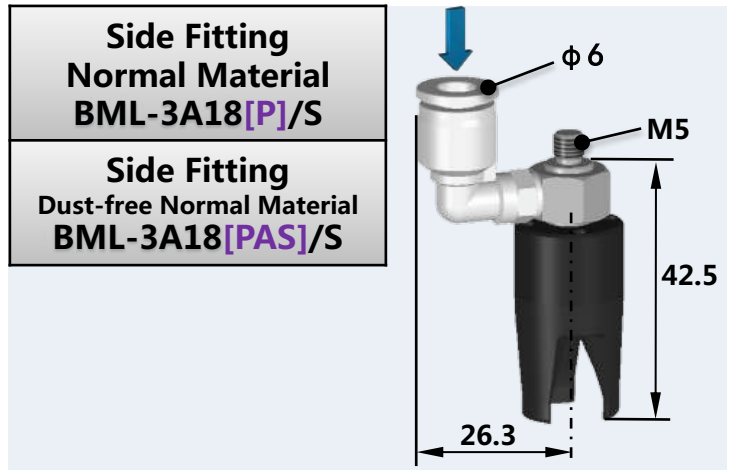
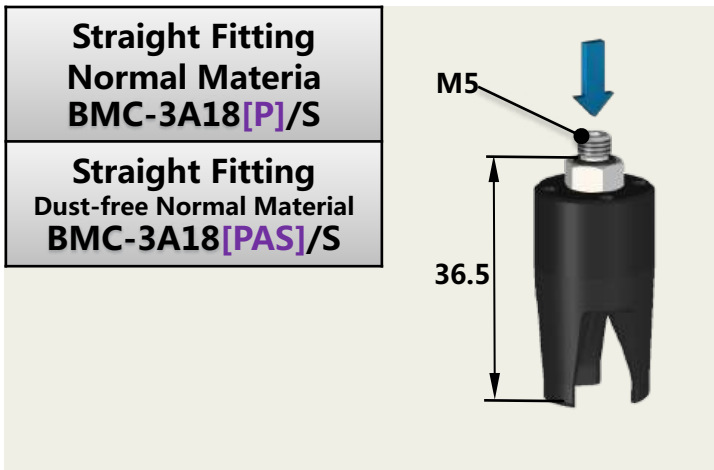
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180°C
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

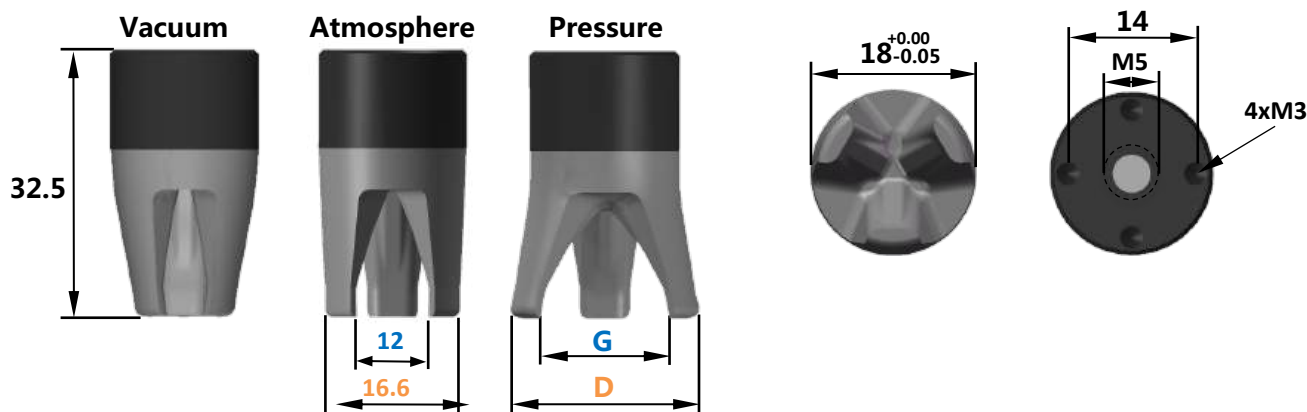
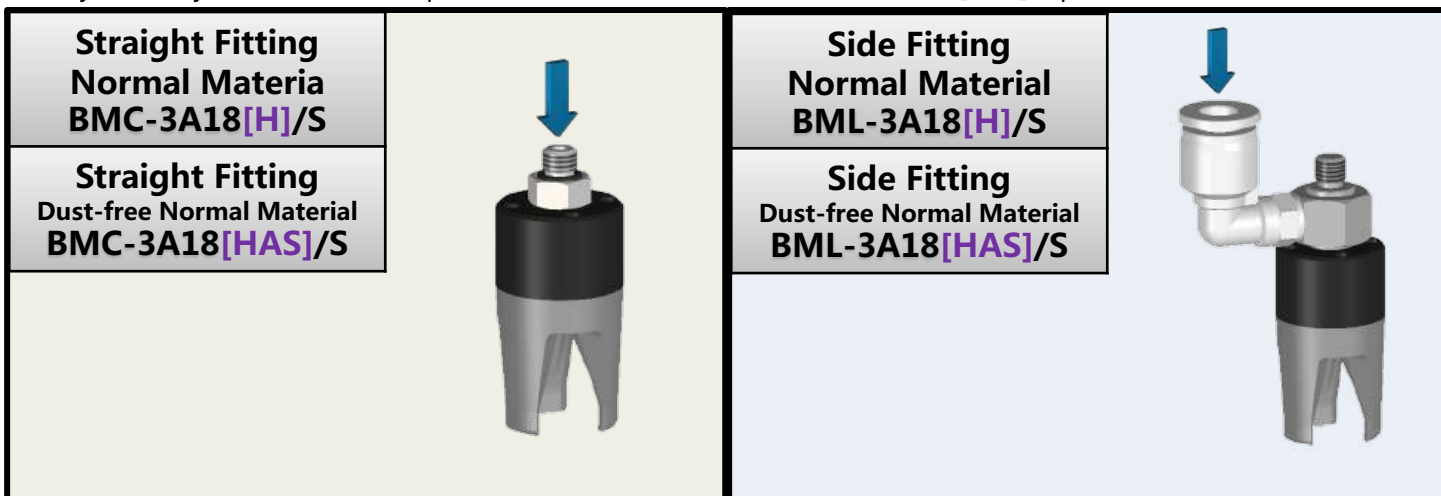




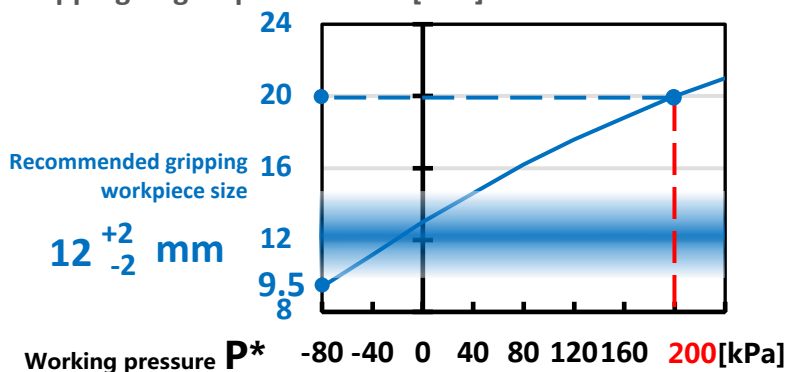


## Product features

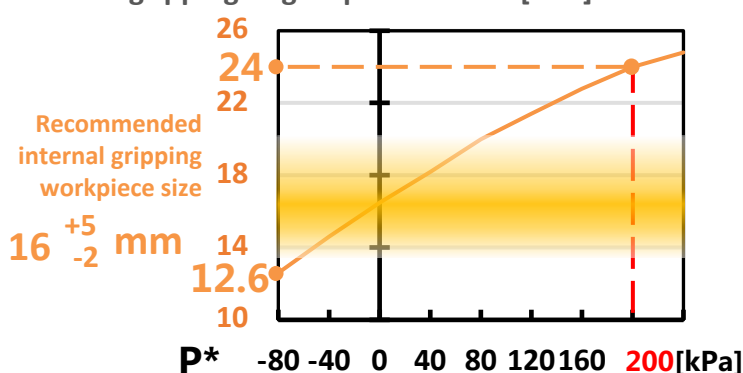
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free 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.



Gripping fingertip distance **G** [mm]



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



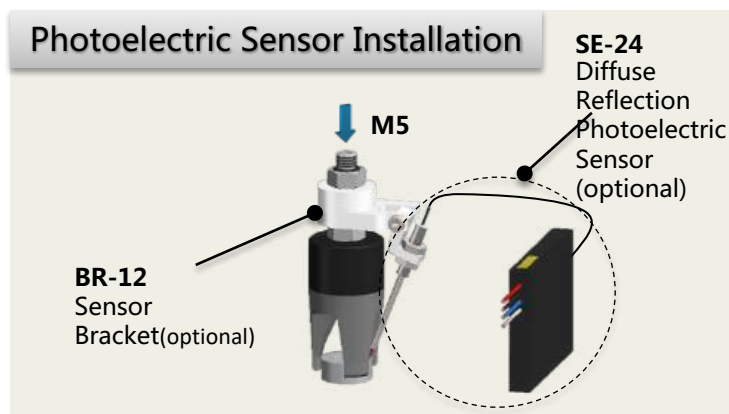
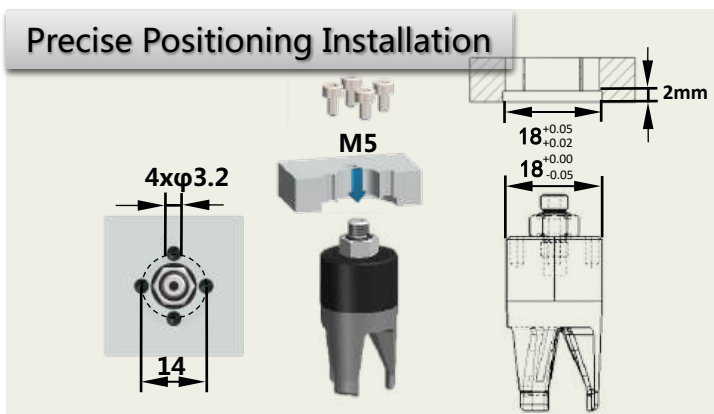
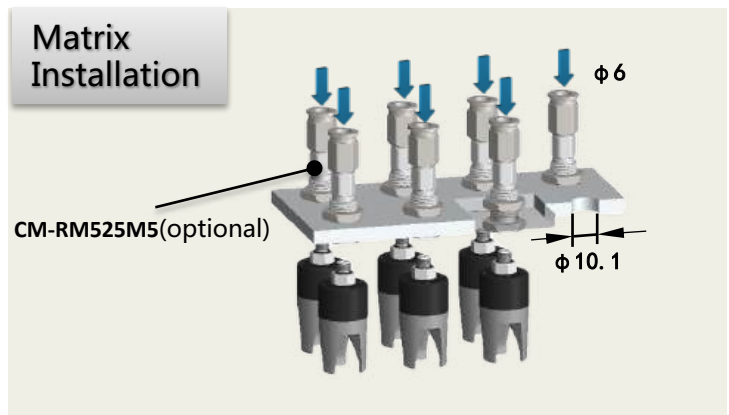
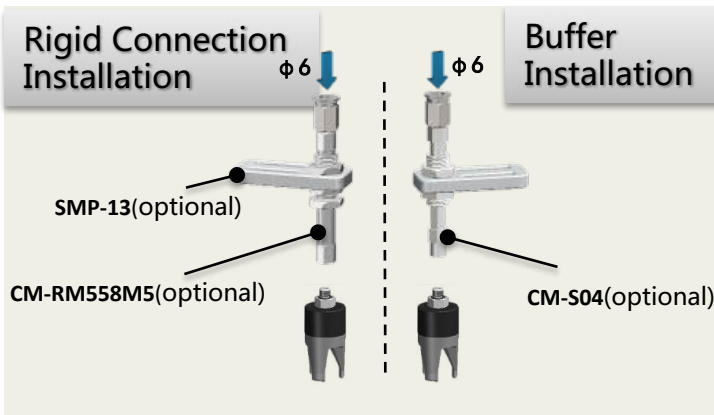
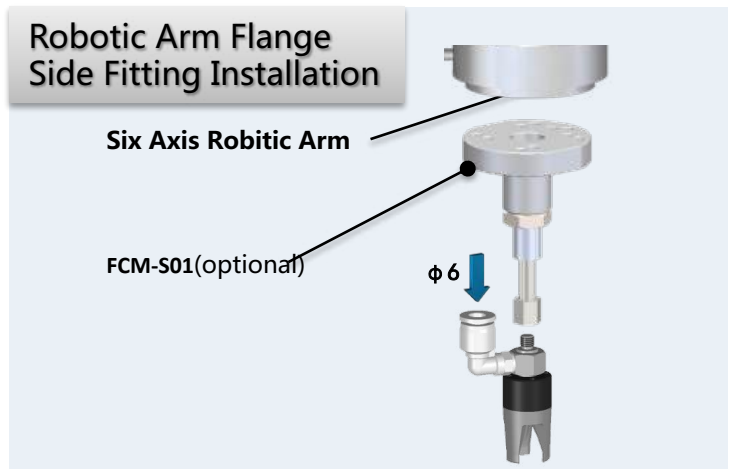
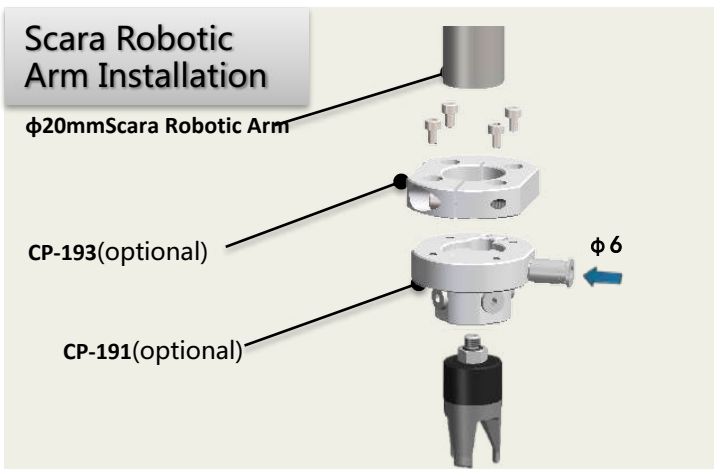
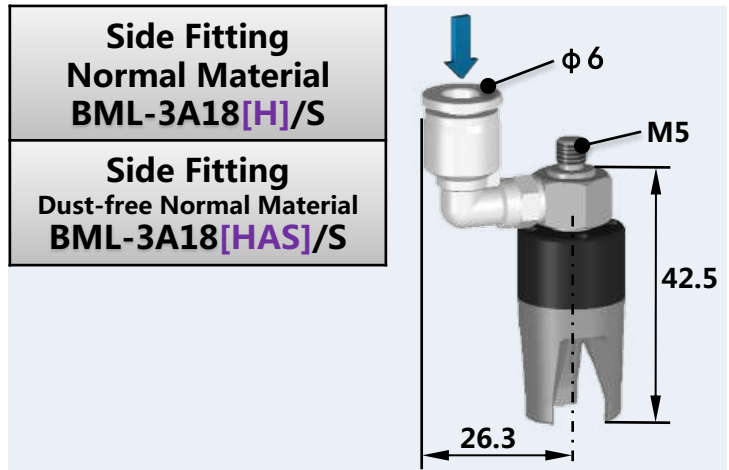
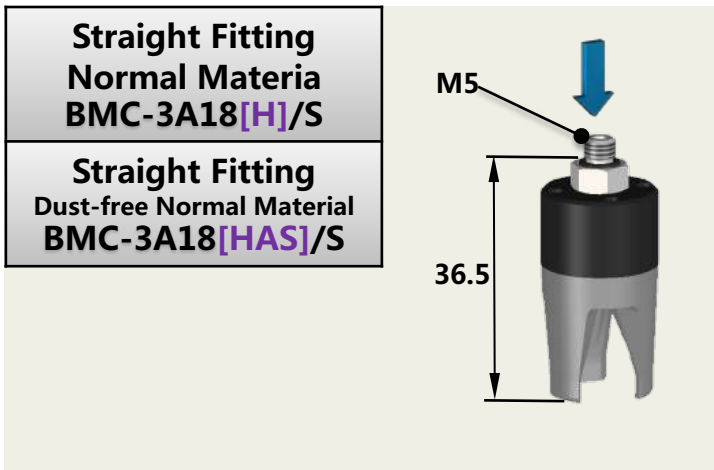
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+200kPa ⚠	Contact Temperature	180°C
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.



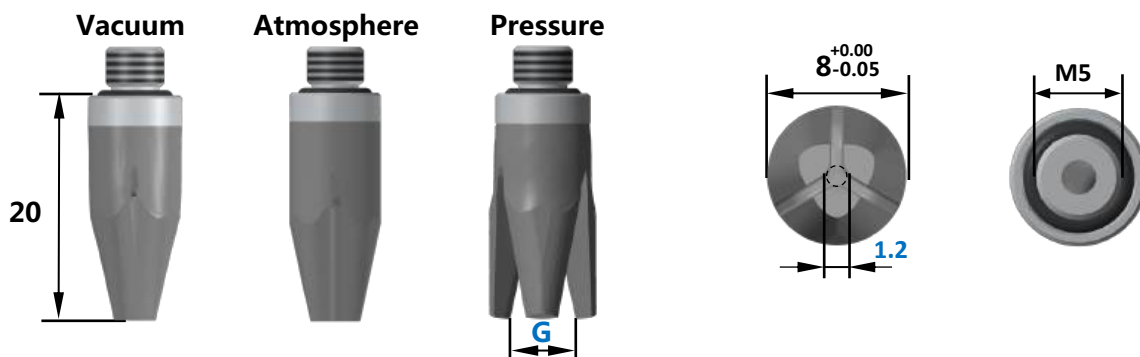
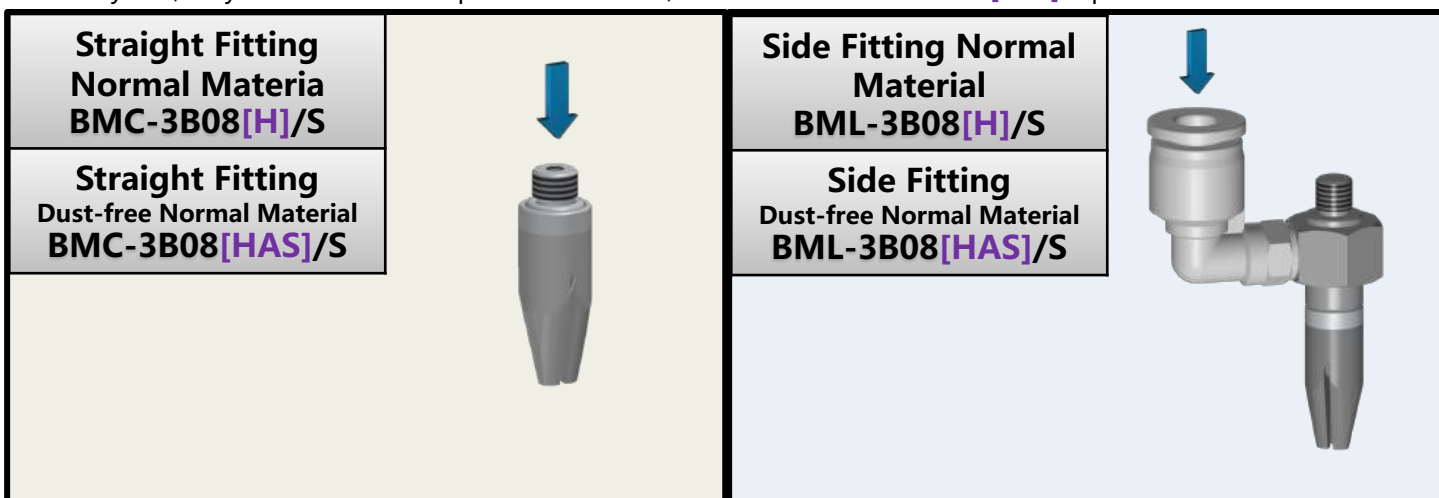
## Installation



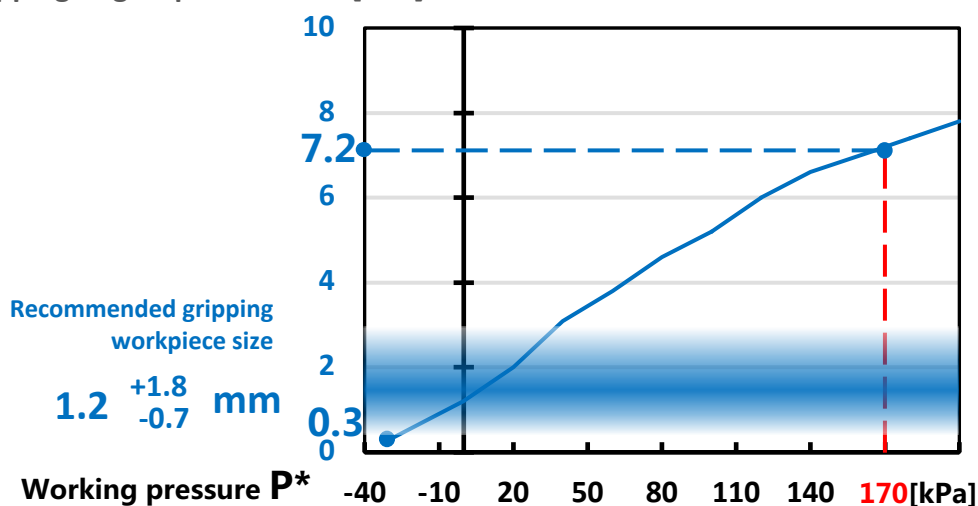


## Product features

- 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.



Gripping fingertip distance **G** [mm]



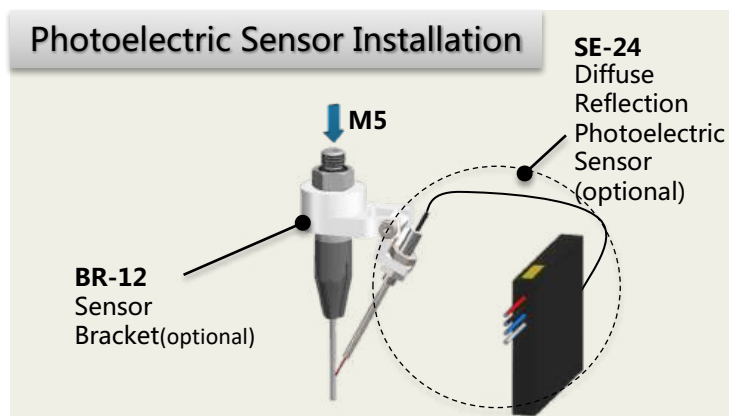
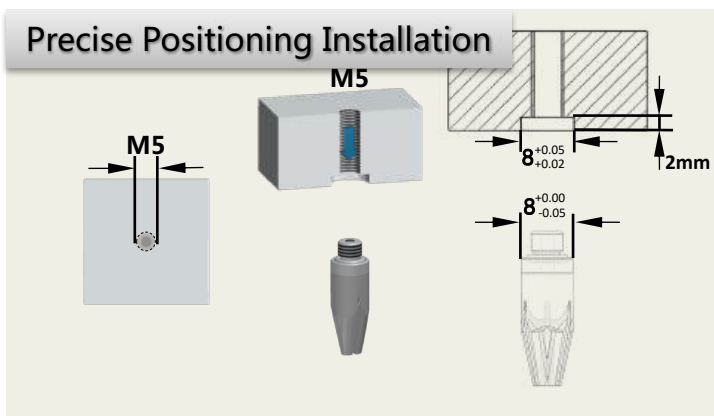
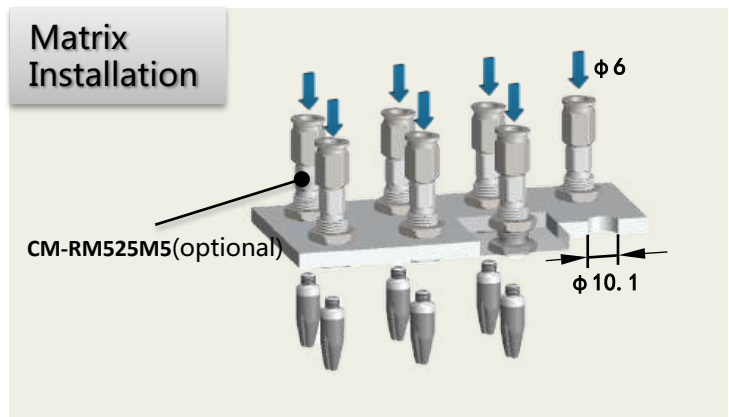
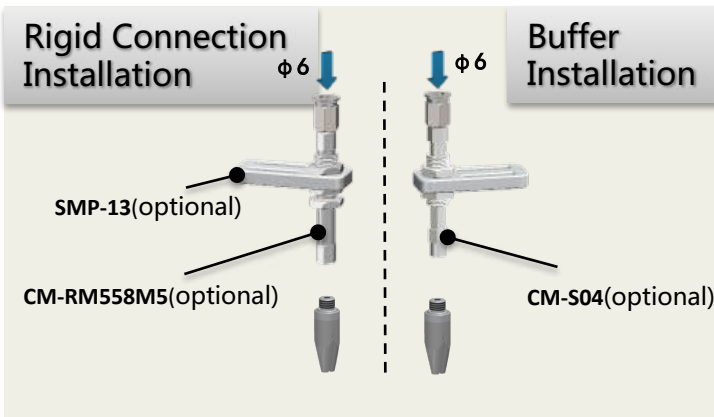
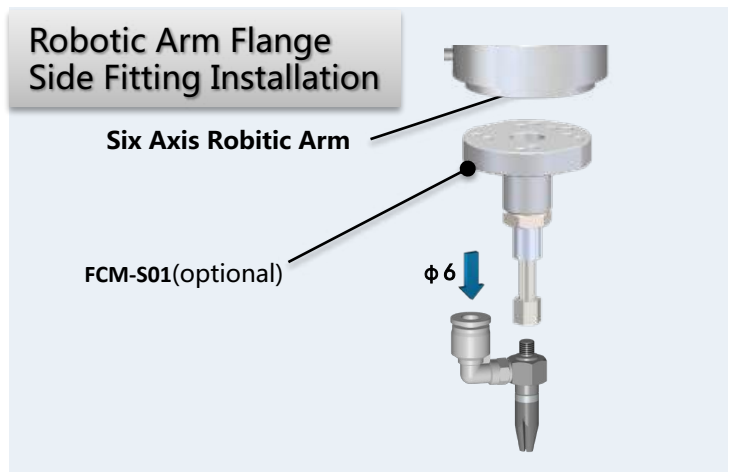
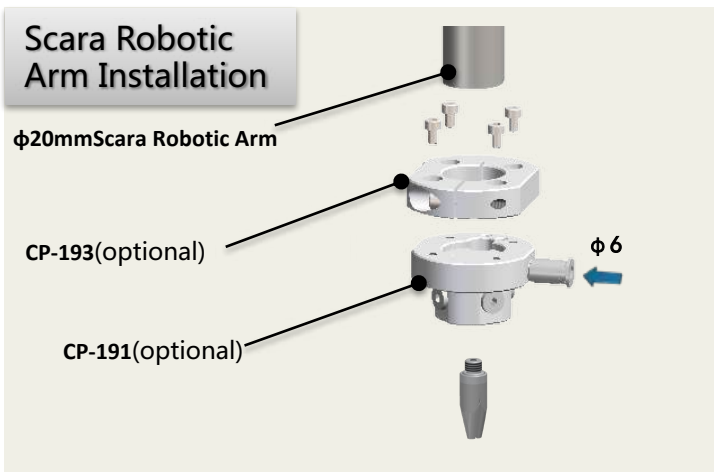
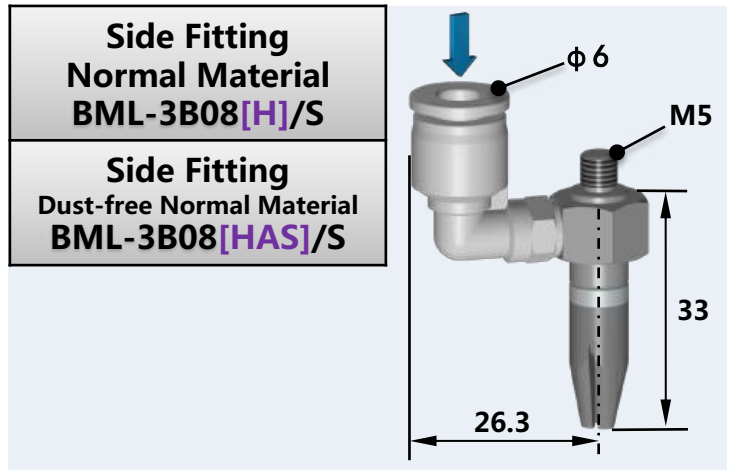
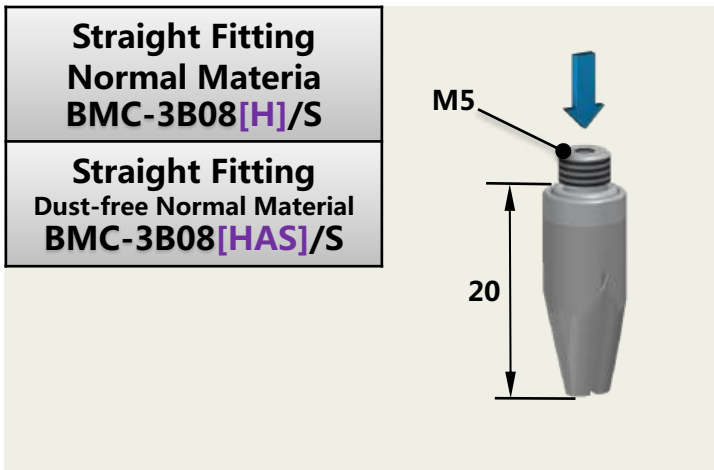
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	4g	Lifetime	1.5 million times*	Safe Pressure	+170kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.04N	Internal gripping force	x	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.



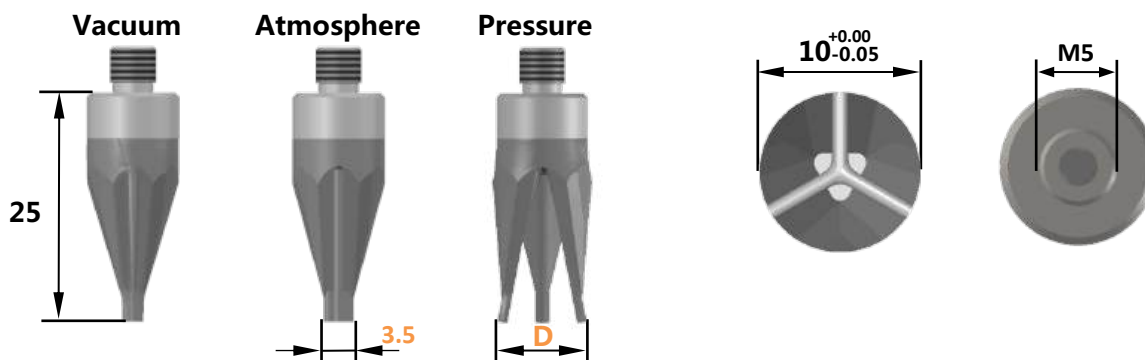
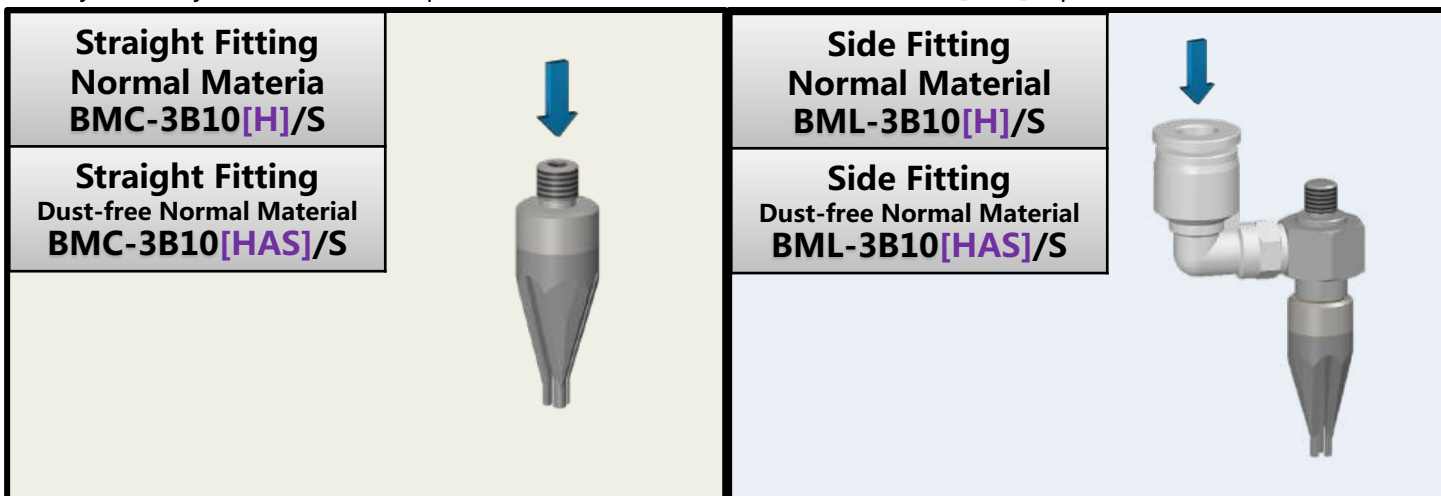
## Installation



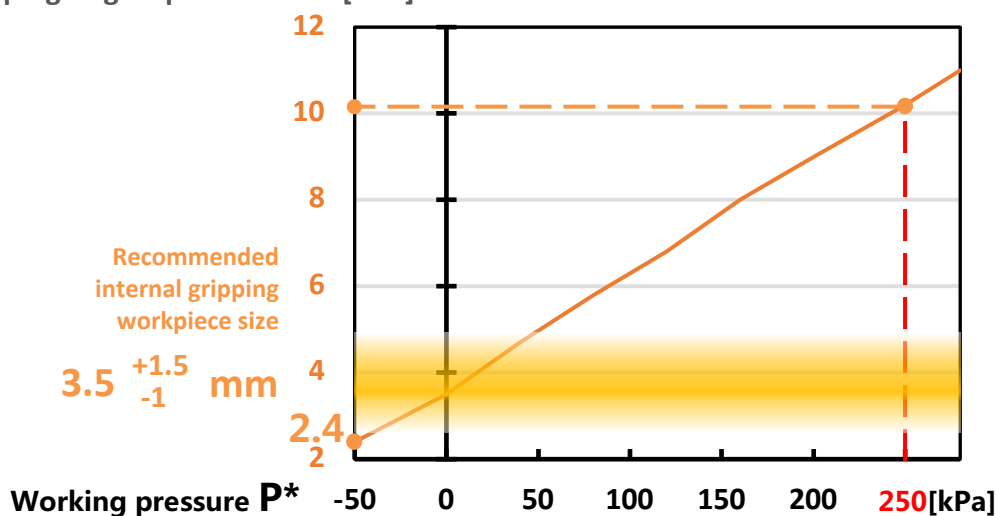


### Product features

- 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.



Internal gripping fingertip distance  $D$  [mm]



### Parameter

Repetitive Precision	$\pm 0.05$ mm	Recommend-ed Load	2g	Lifetime	1.5 million times*	Safe Pressure	+250kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	X	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.

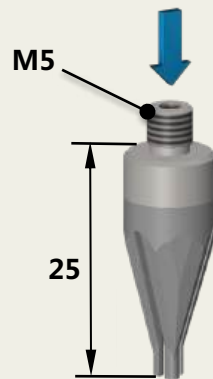




## Installation

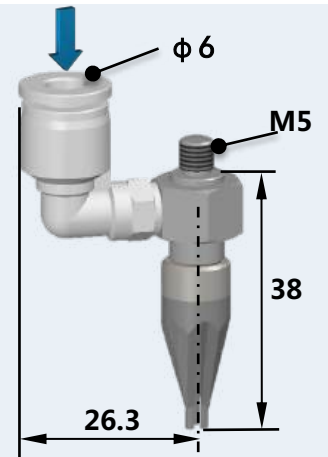
**Straight Fitting**  
Normal Material  
BMC-3B10[H]/S

**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

$\phi 20$ mm Scara Robotic Arm

CP-193(optional)

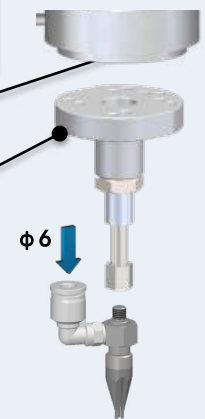
CP-191(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



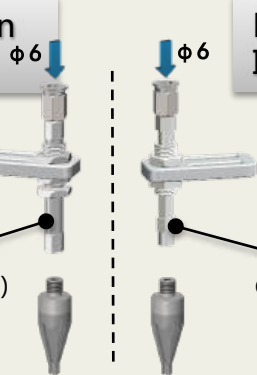
### Rigid Connection Installation

SMP-13(optional)

CM-RM558M5(optional)

### Buffer Installation

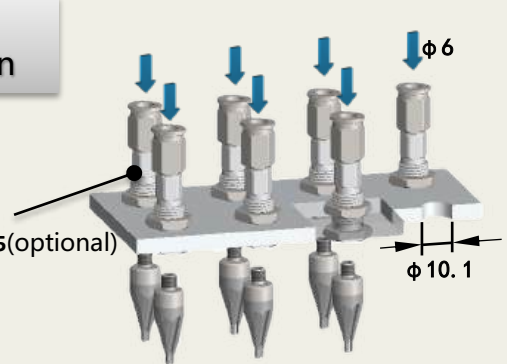
CM-S04(optional)



### Matrix Installation

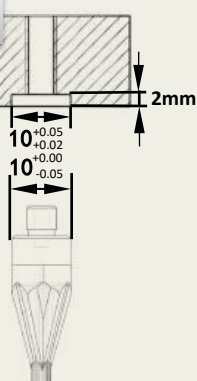
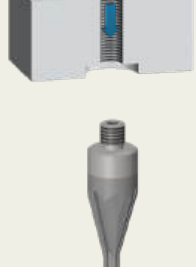
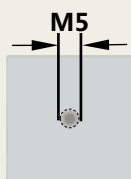
CM-RM525M5(optional)

$\phi 10.1$



### Precise Positioning Installation

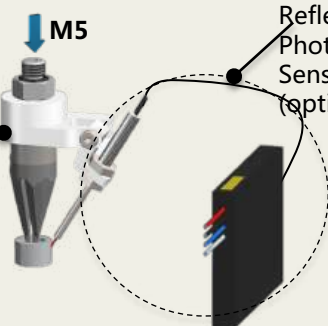
M5



### Photoelectric Sensor Installation

SE-24  
Diffuse  
Reflection  
Photoelectric  
Sensor  
(optional)

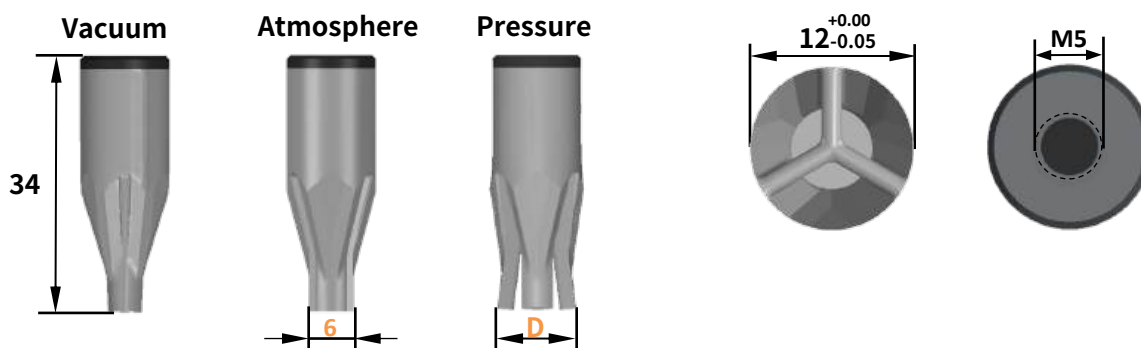
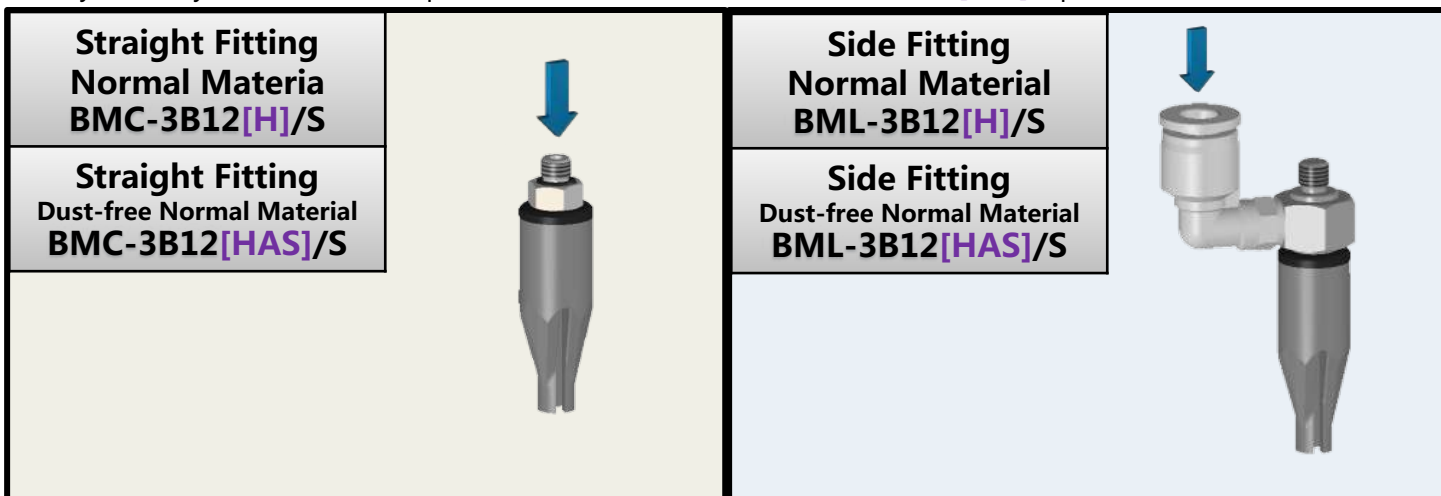
BR-12  
Sensor  
Bracket(optional)



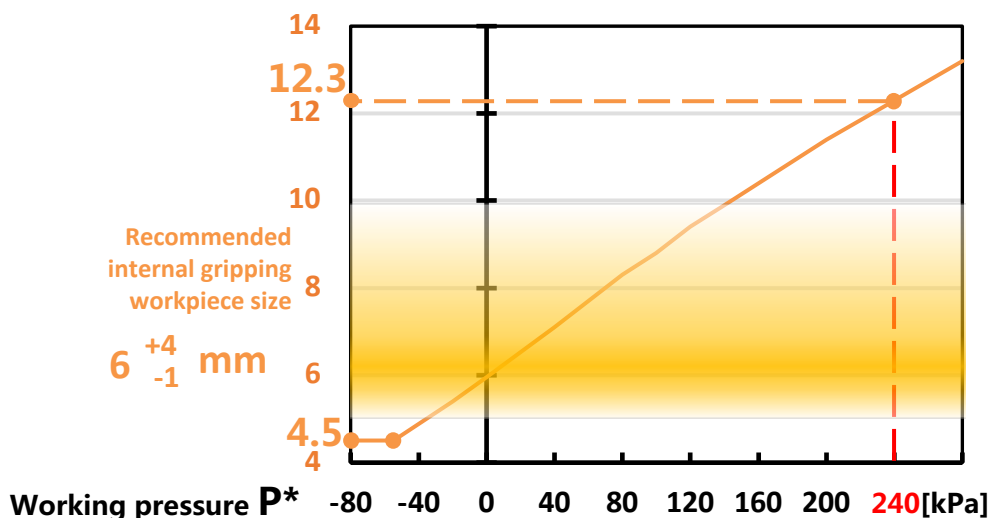


## Product features

- 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.



Internal gripping fingertip distance  $D$  [mm]



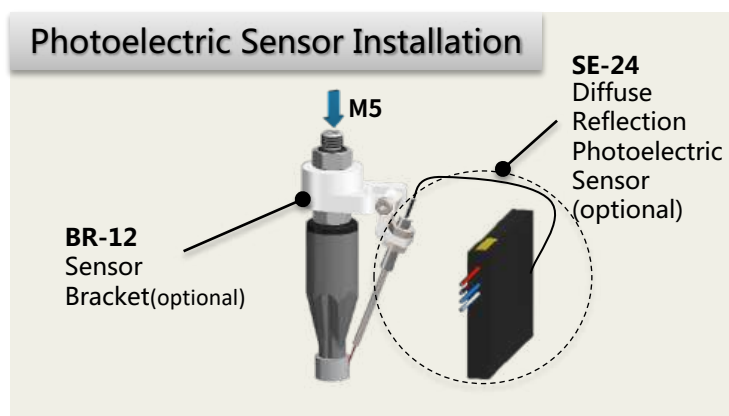
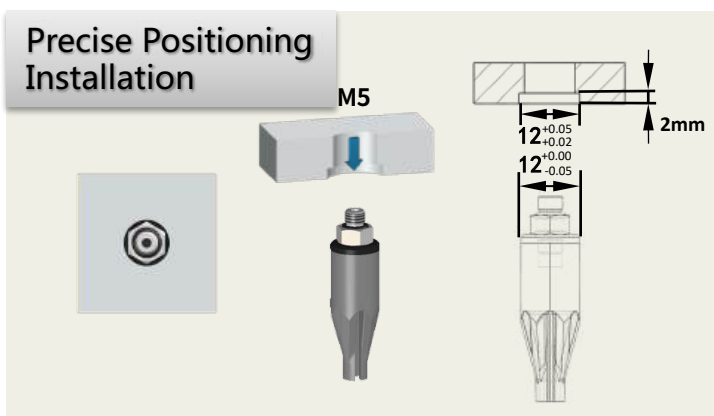
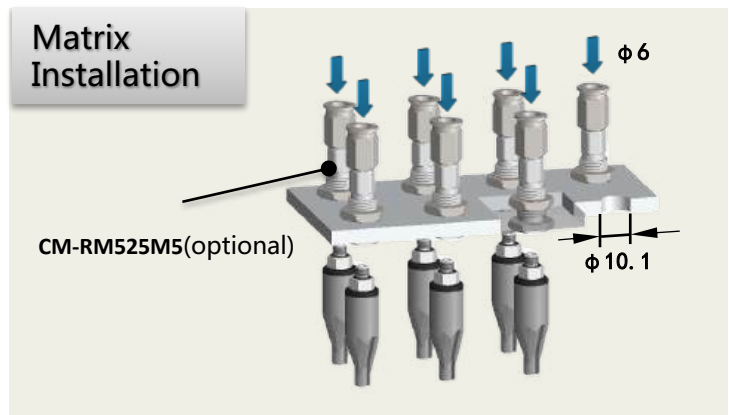
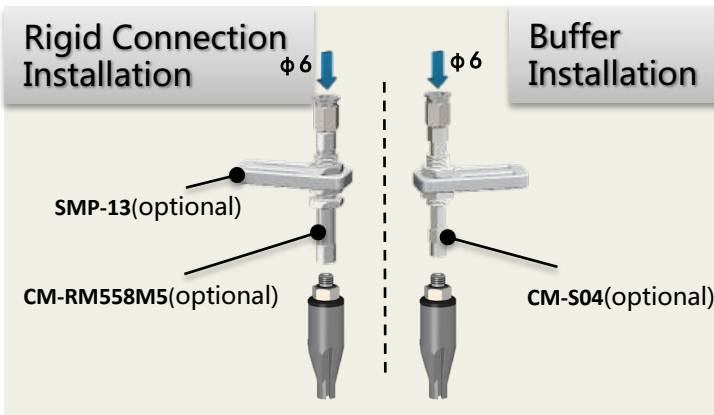
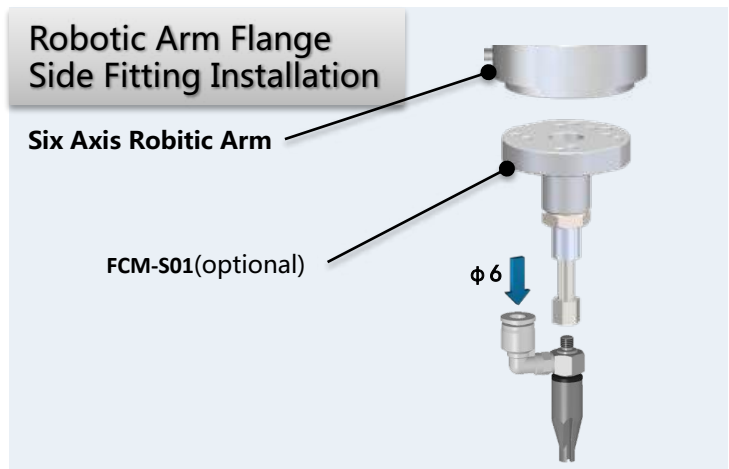
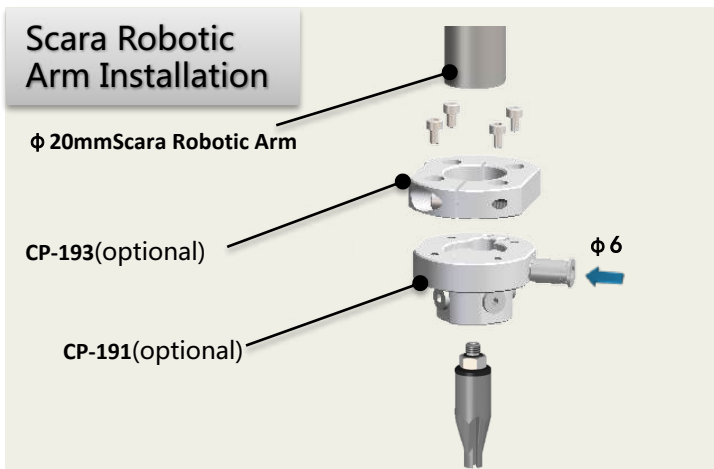
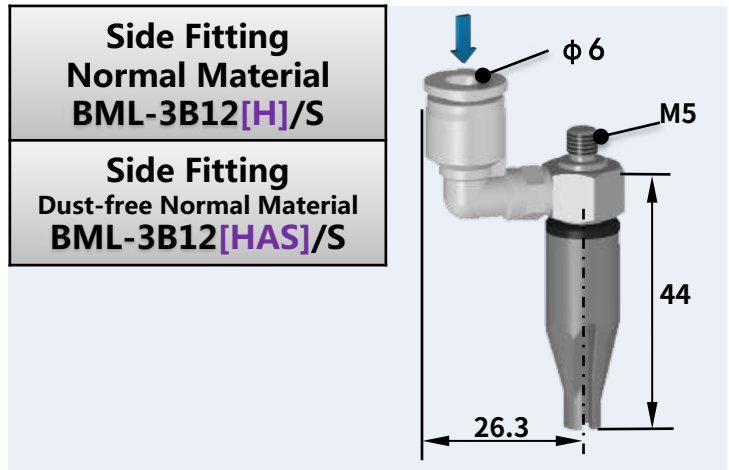
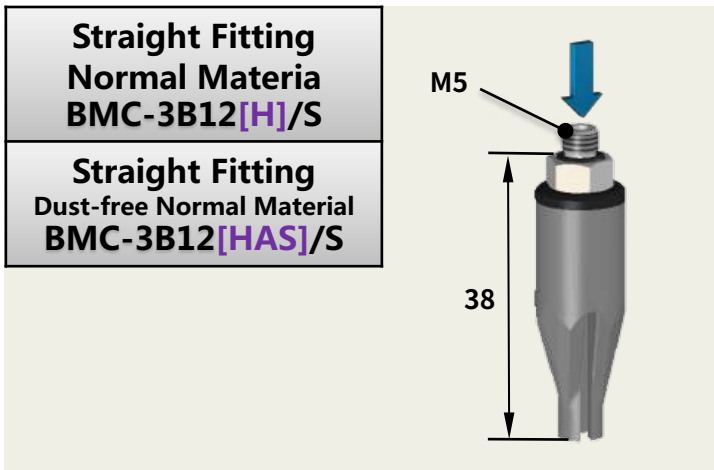
## Parameter

Repetitive Precision	$\pm 0.05$ mm	Recommend -ed Load	10g	Lifetime	1.5 million times*	Safe Pressure	+240kPa ⚠	Contact Temperature	180°C
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.



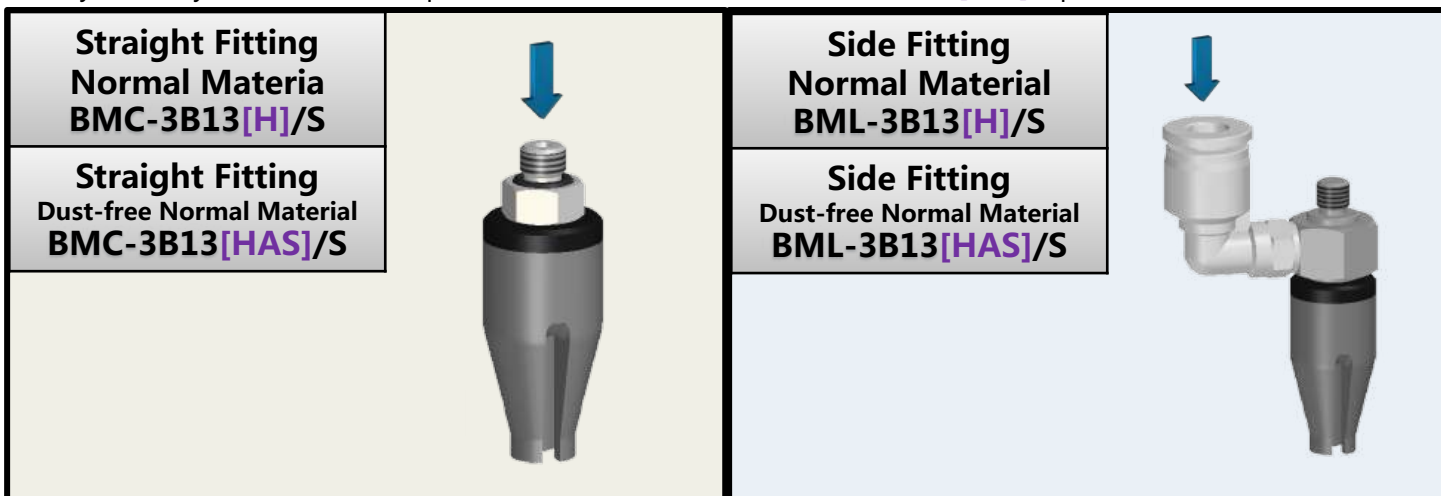
## Installation



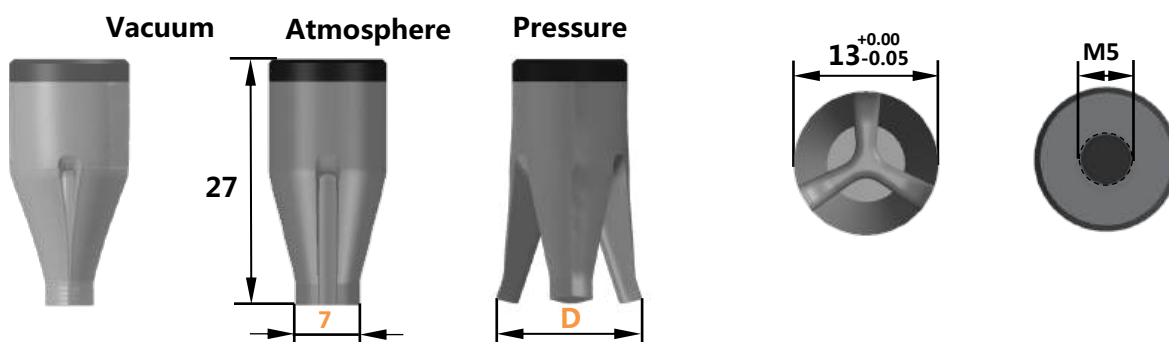


### Product features

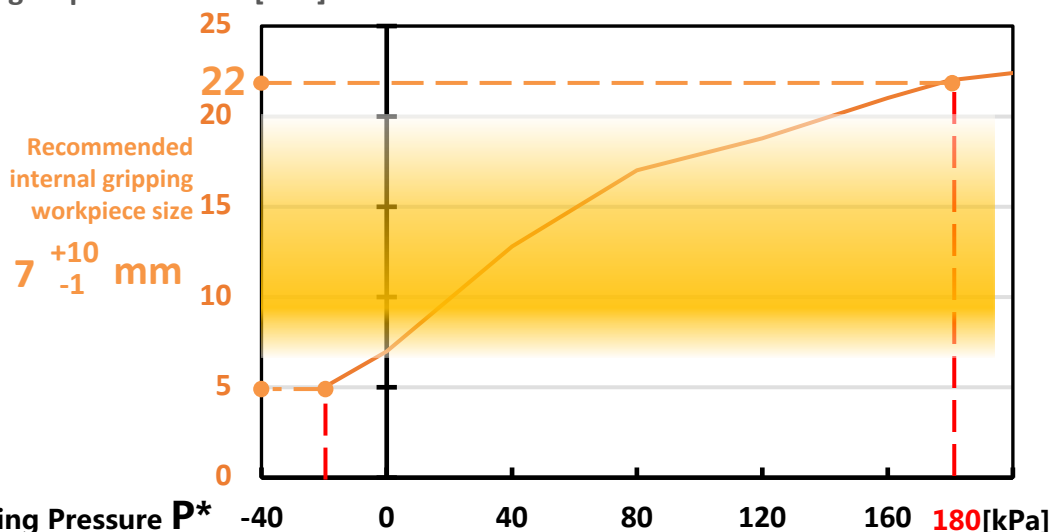
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Internal gripping fingertip distance  $D$  can be adjusted by working pressure.
- Soft beak material is divided into Normal Material [H] and Dust-free Normal Material [HAS]. When the workpiece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



BM



Internal gripping fingertip distance  $D$  [mm]



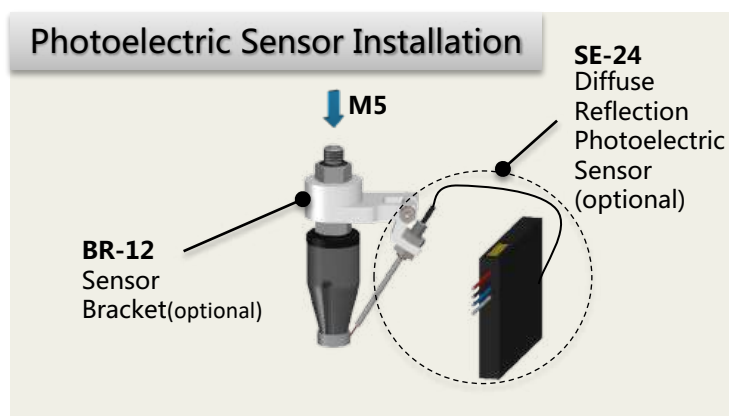
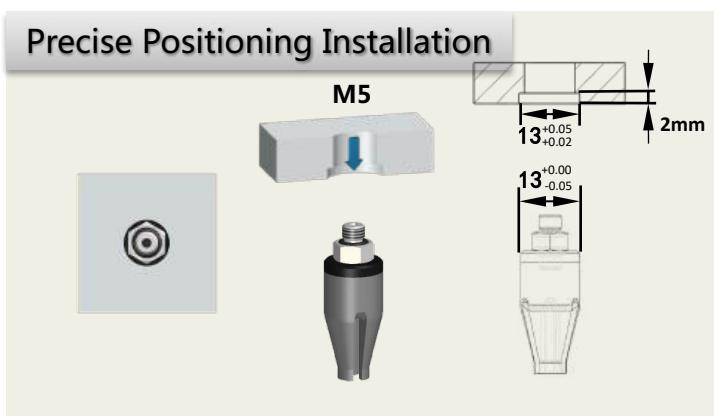
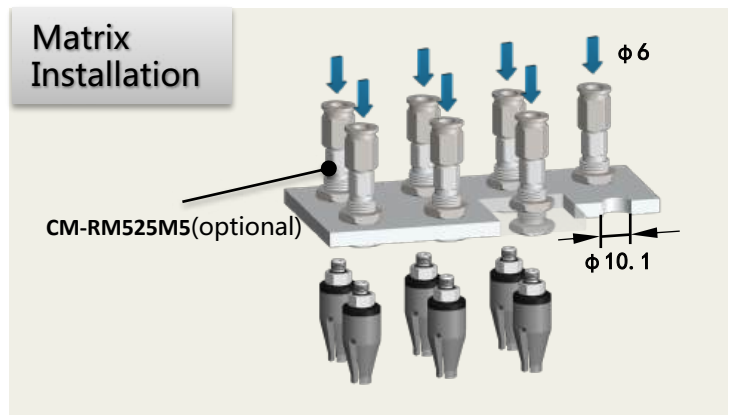
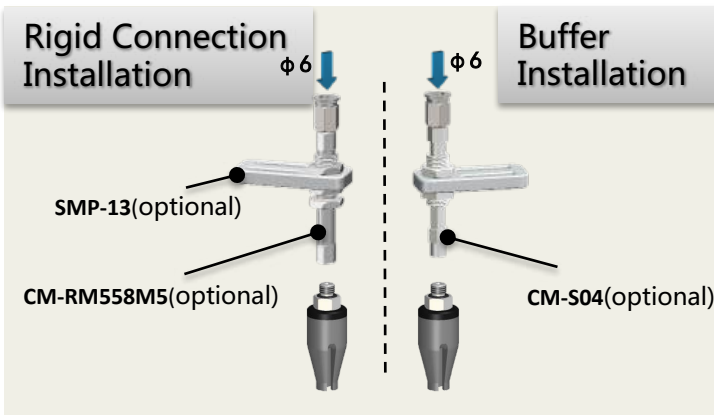
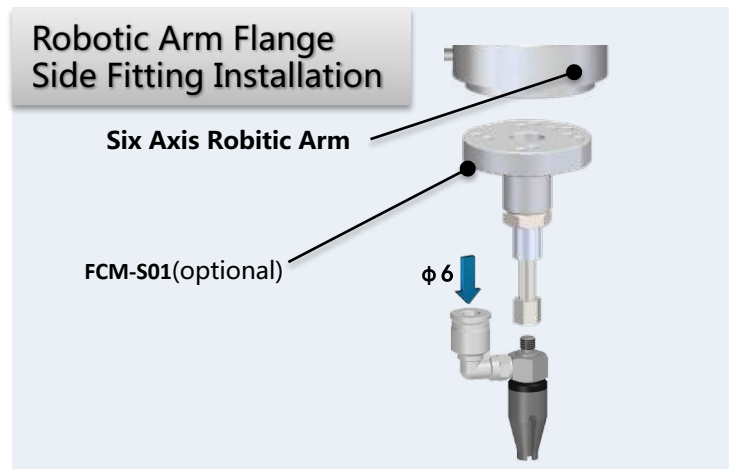
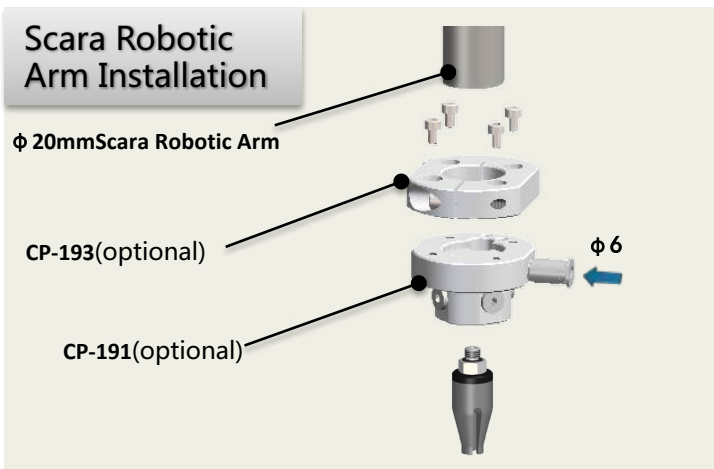
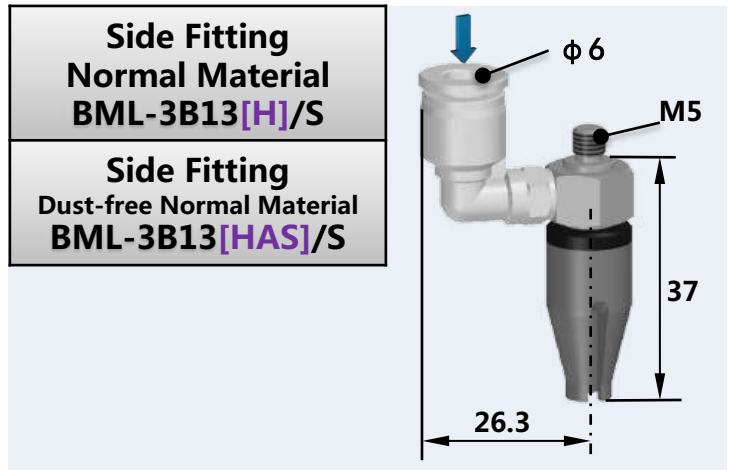
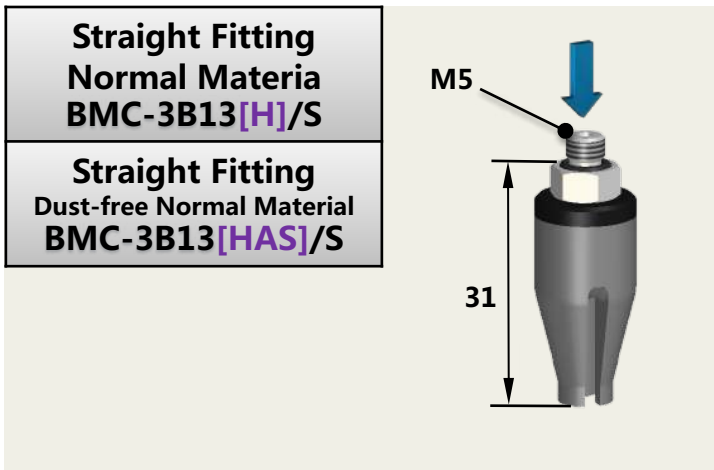
### Parameter

Repetitive Precision	$\pm 0.05$ mm	Recommend -ed Load	20g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	X	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

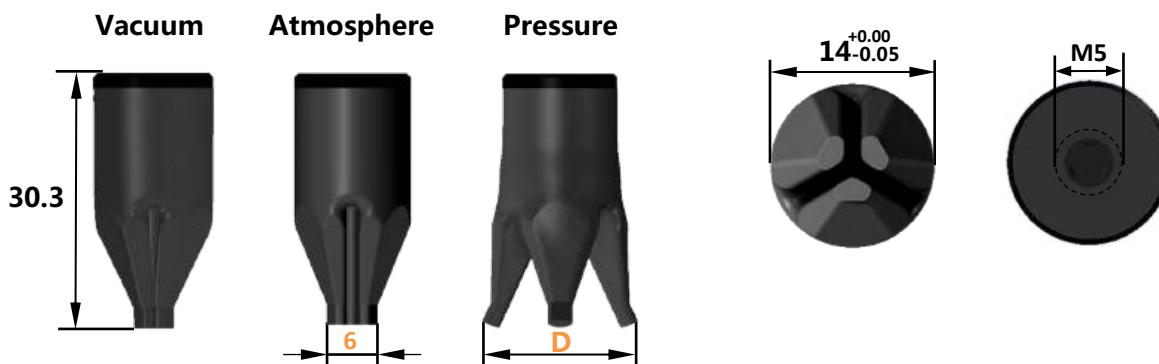
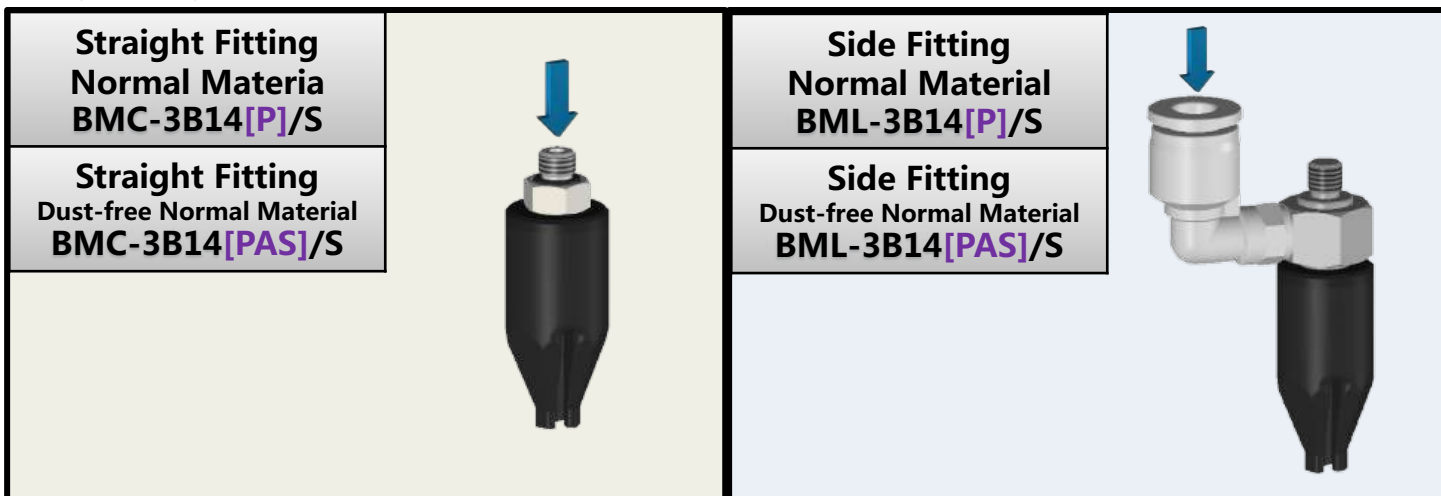




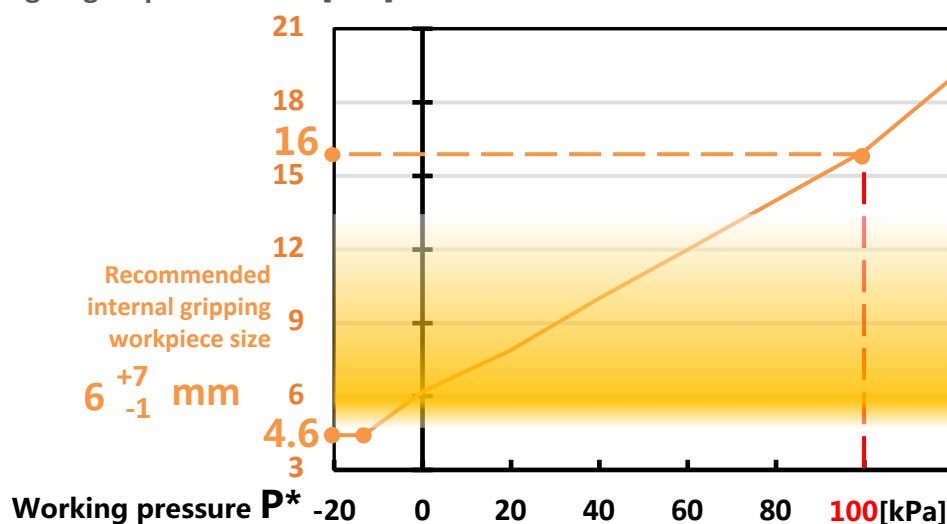


## Product features

- 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.



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



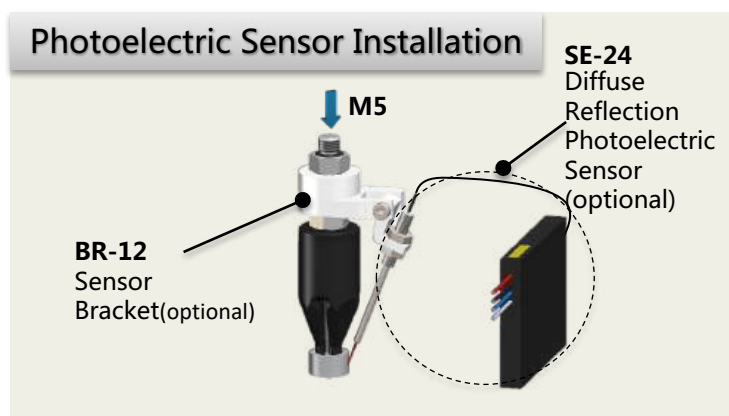
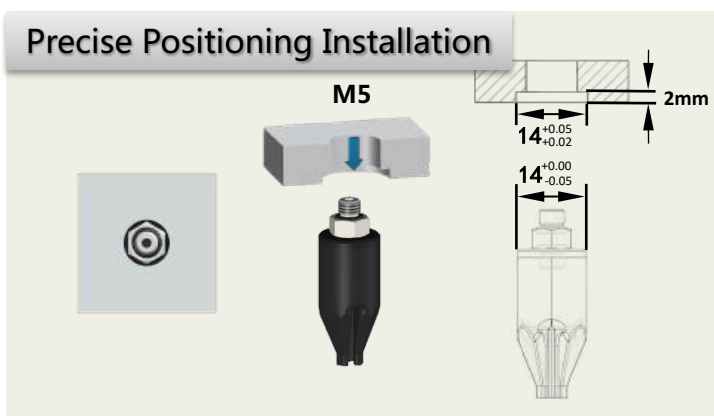
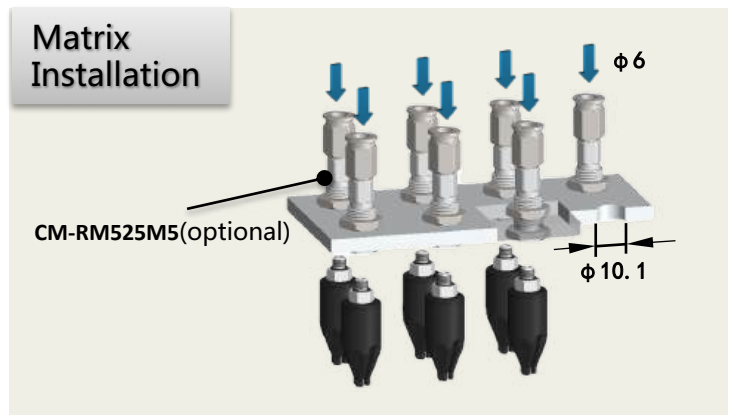
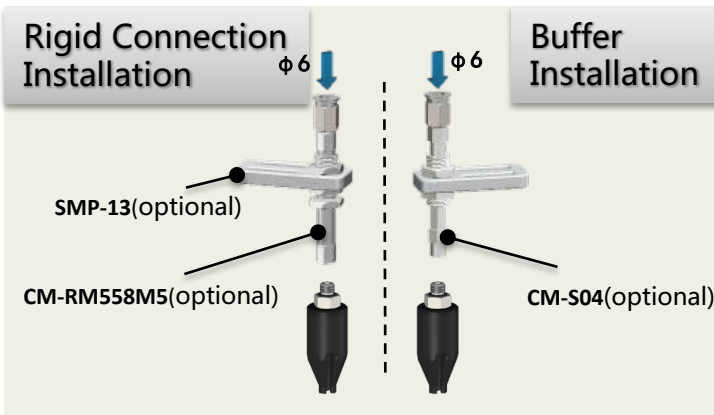
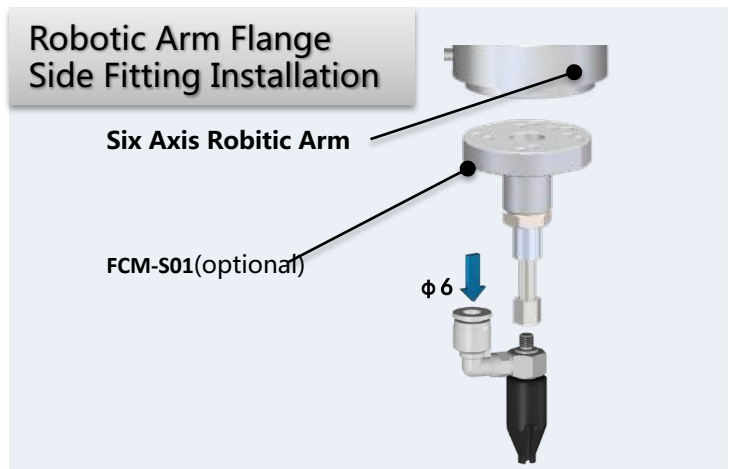
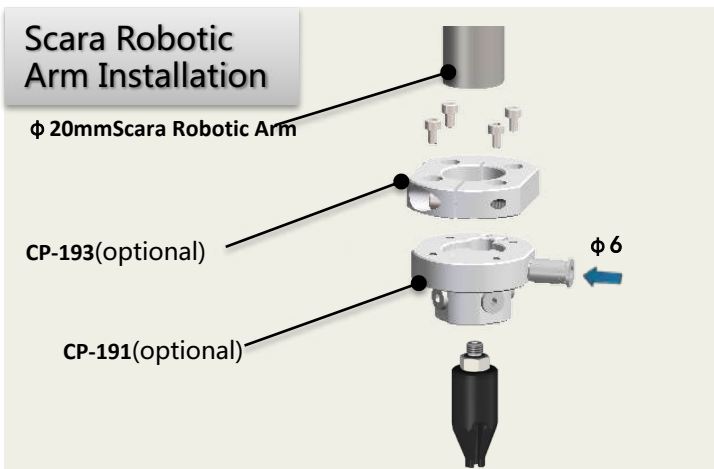
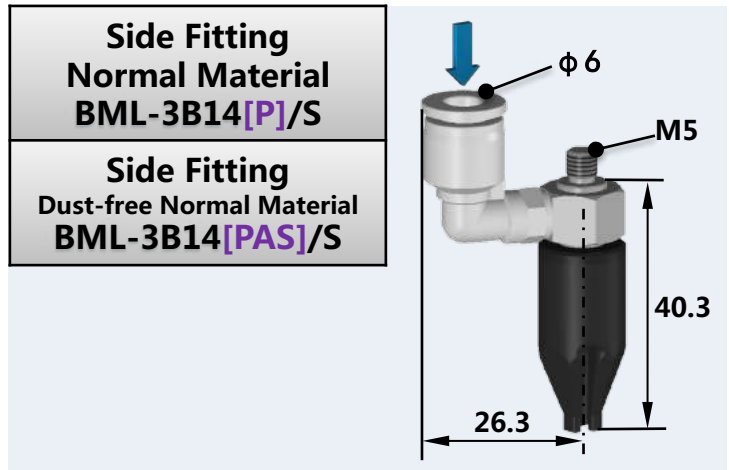
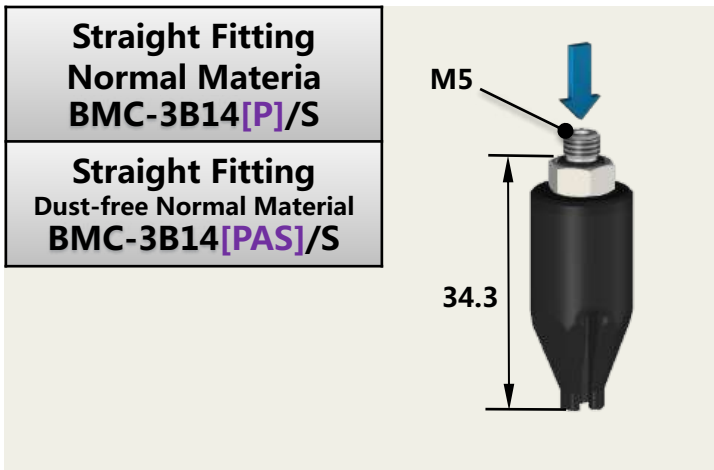
## Parameter

Repetitive Precision	$\pm 0.05$ mm	Recommend -ed Load	12g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	X	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.



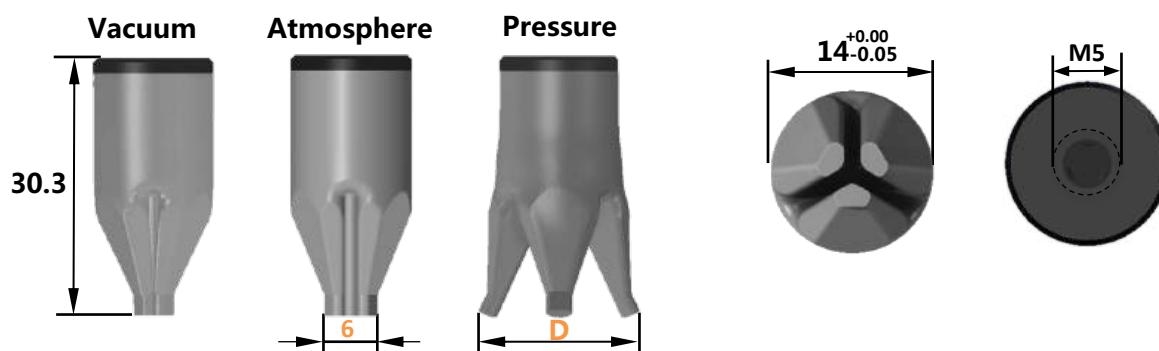
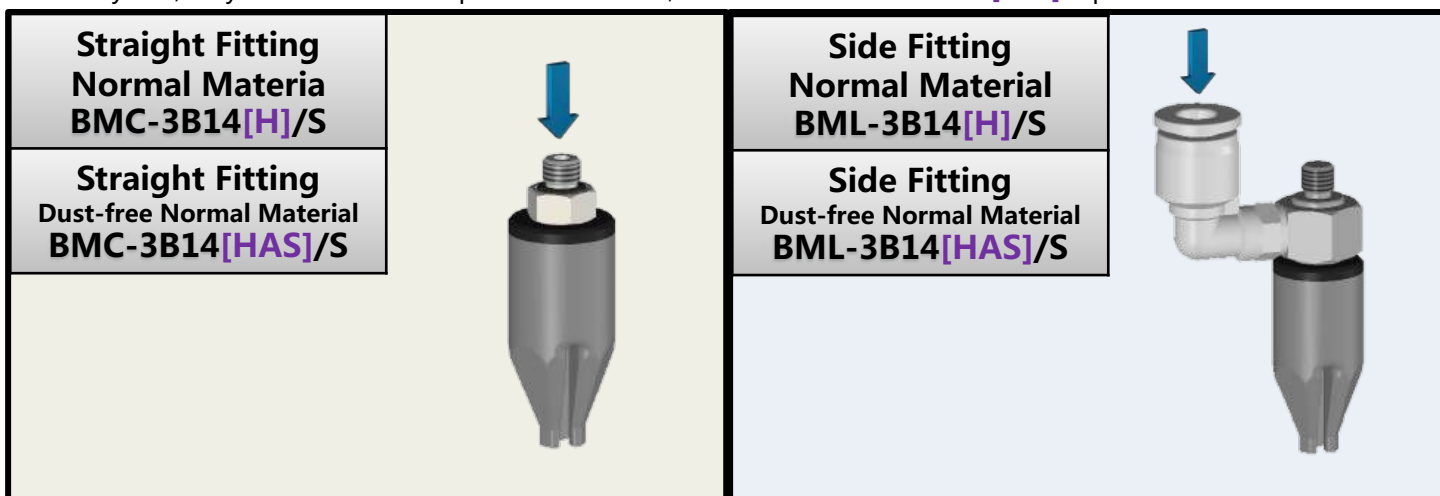
## Installation



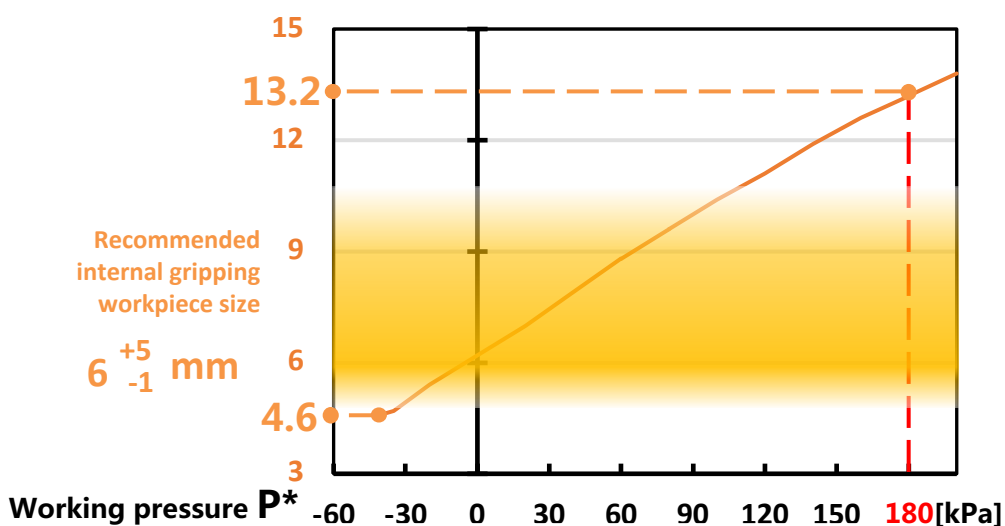


## Product features

- 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.



Internal gripping fingertip distance  $D$  [mm]



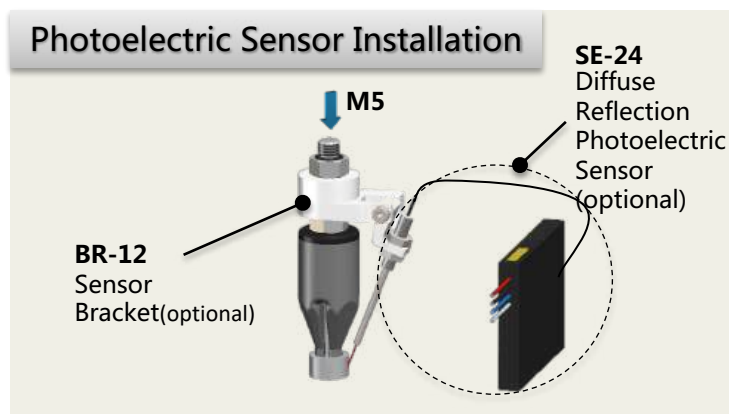
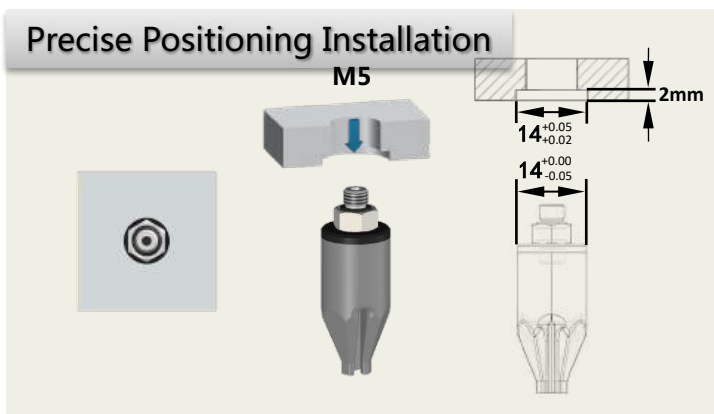
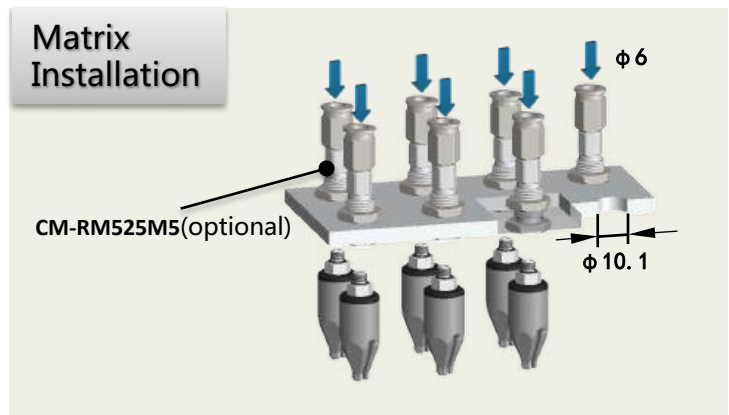
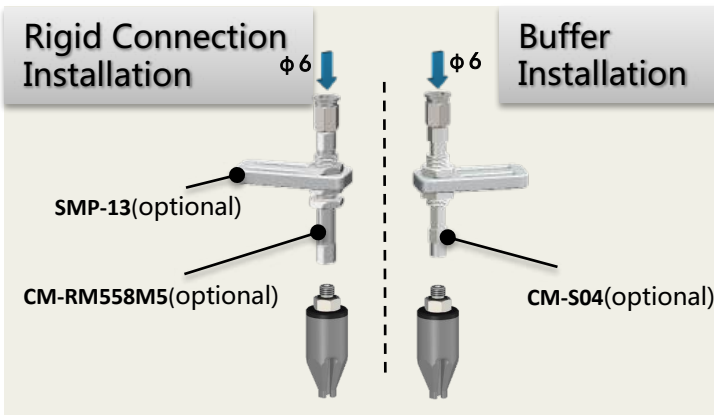
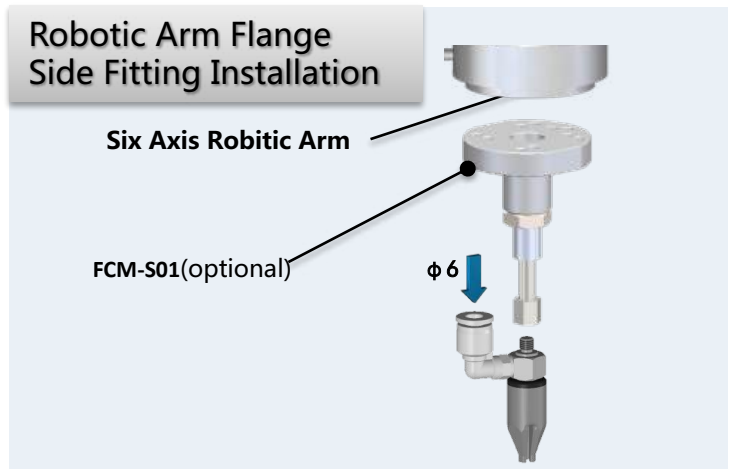
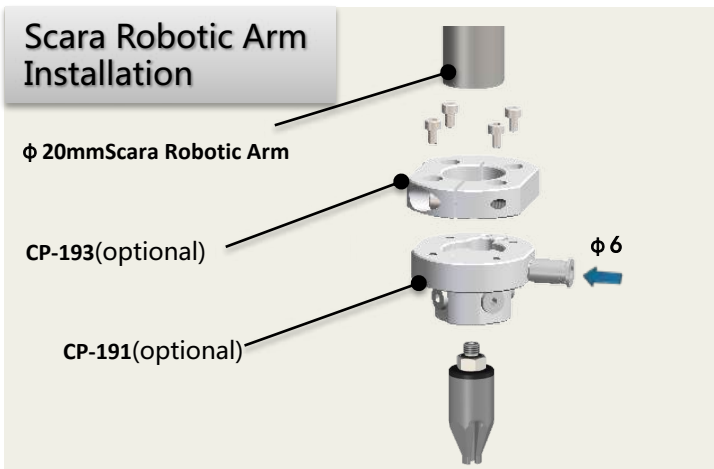
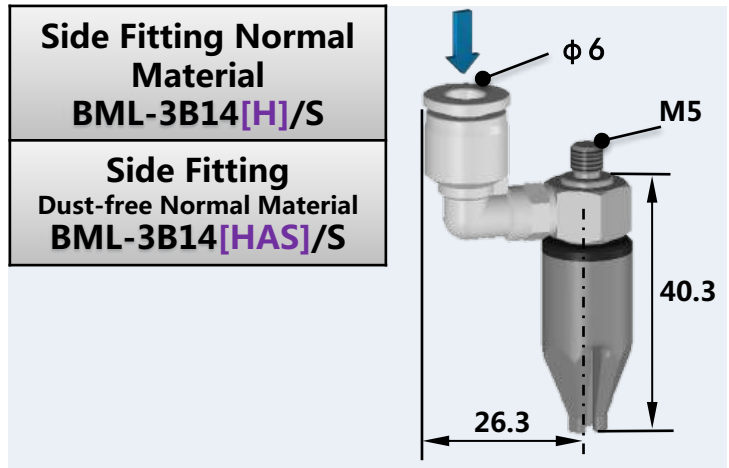
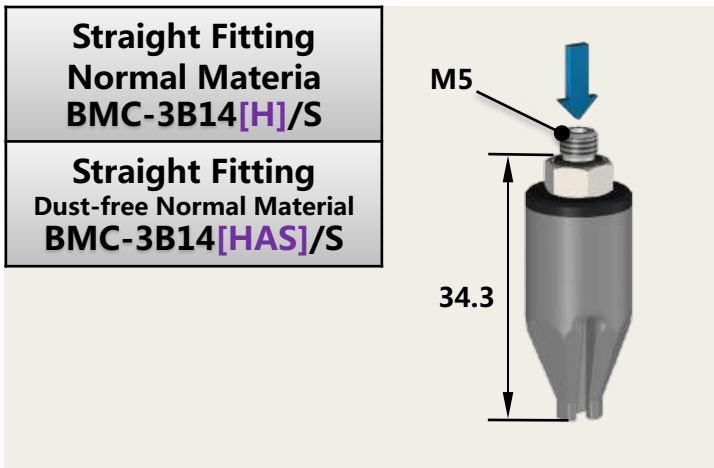
## Parameter

Repetitive Precision	$\pm 0.05$ mm	Recommend -ed Load	12g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	X	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.



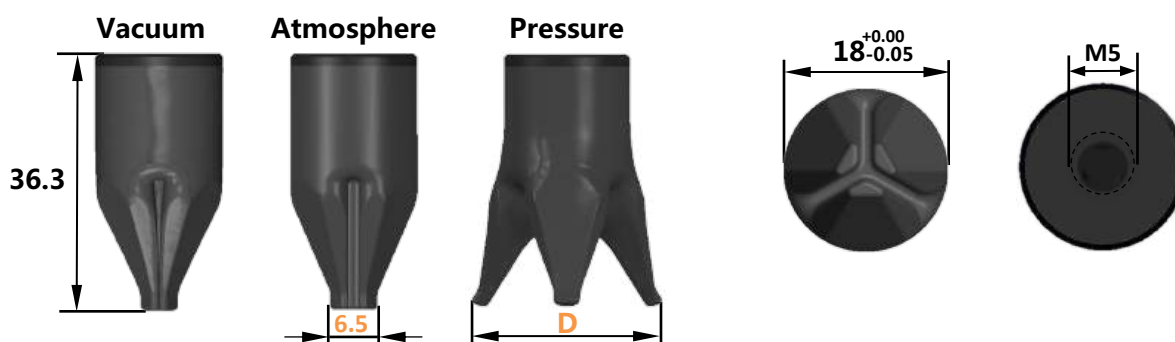
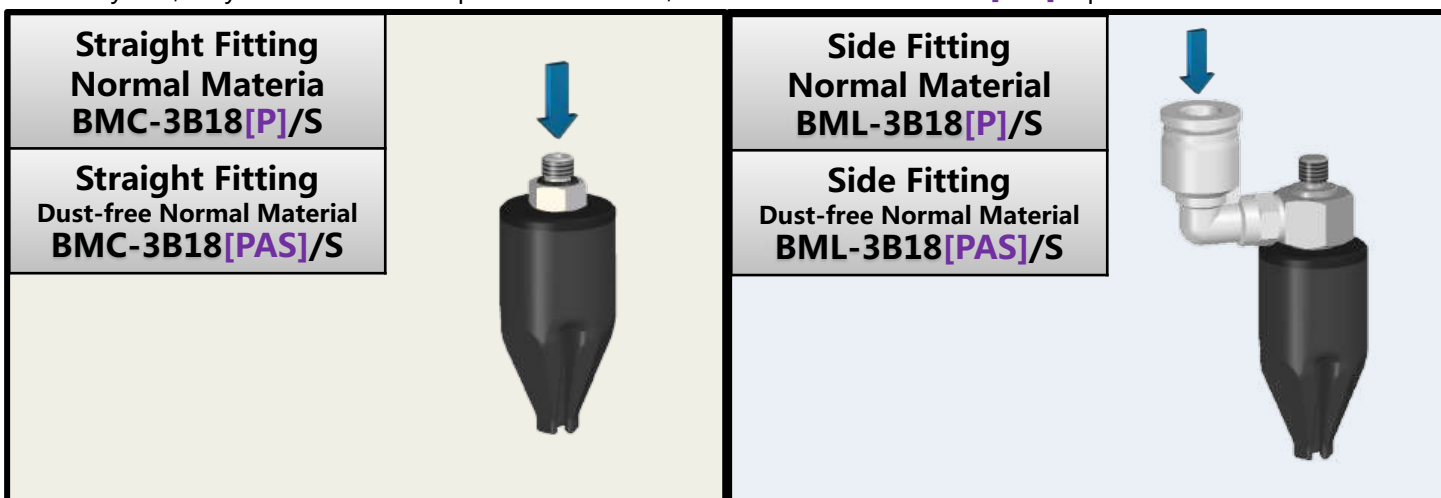
## Installation



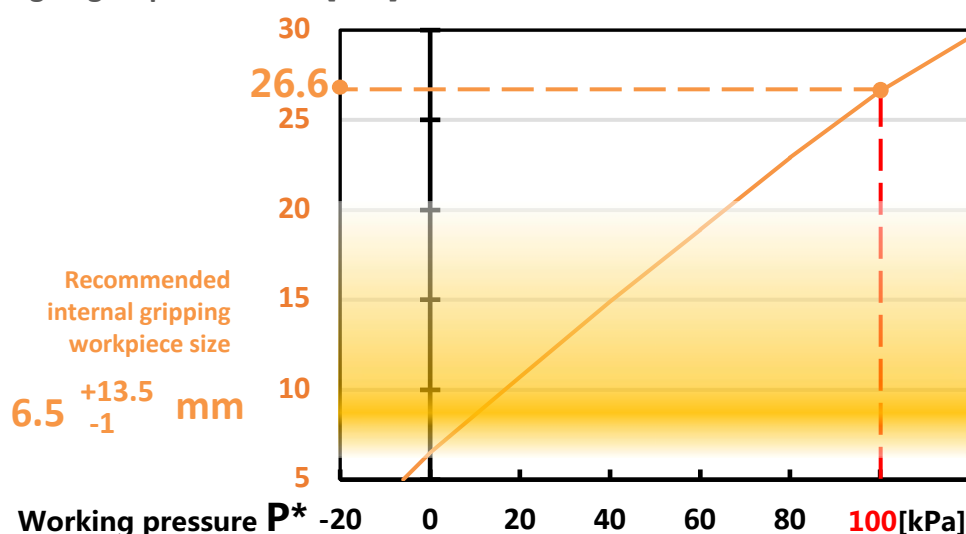


### Product features

- 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.



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



### Parameter

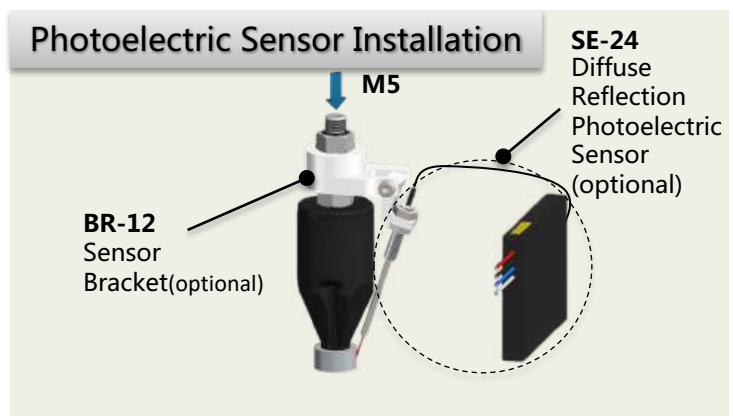
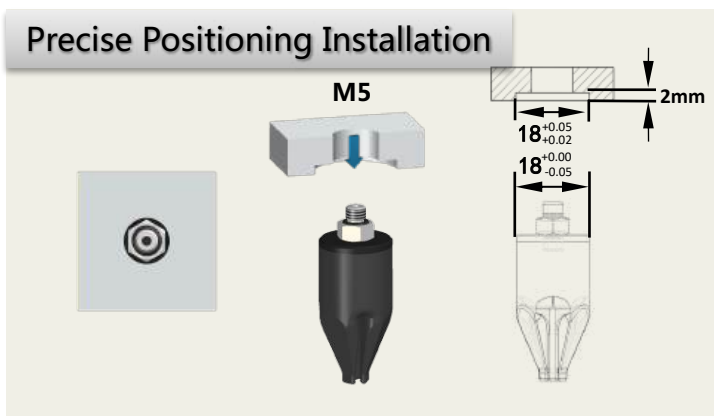
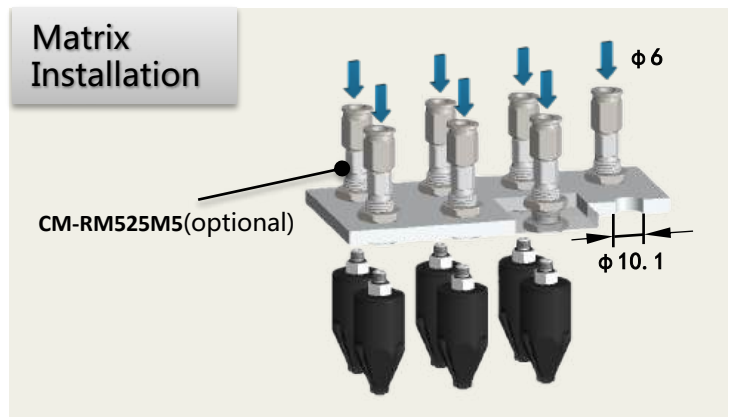
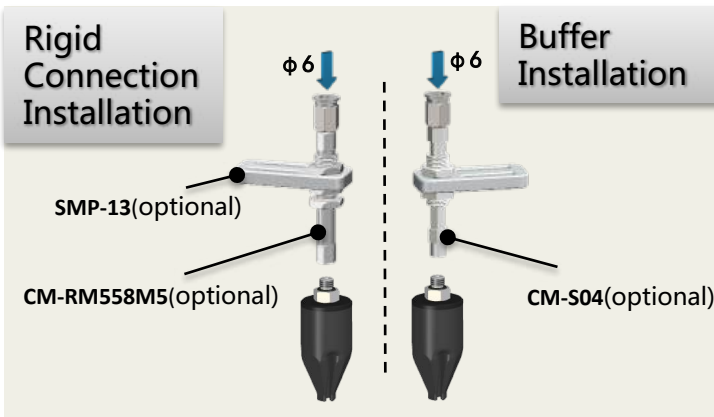
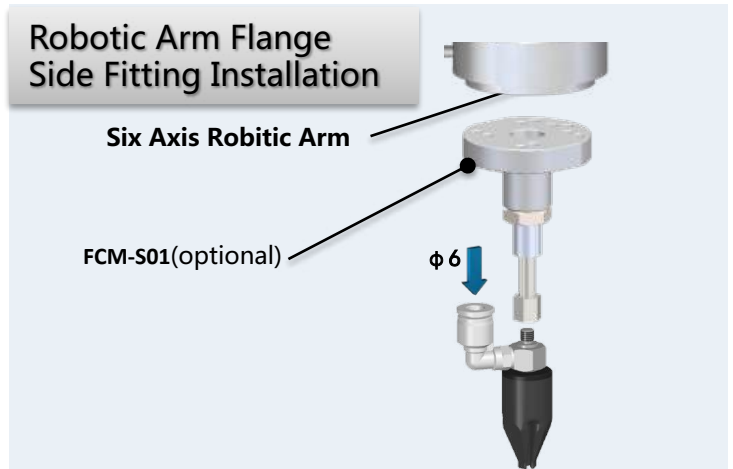
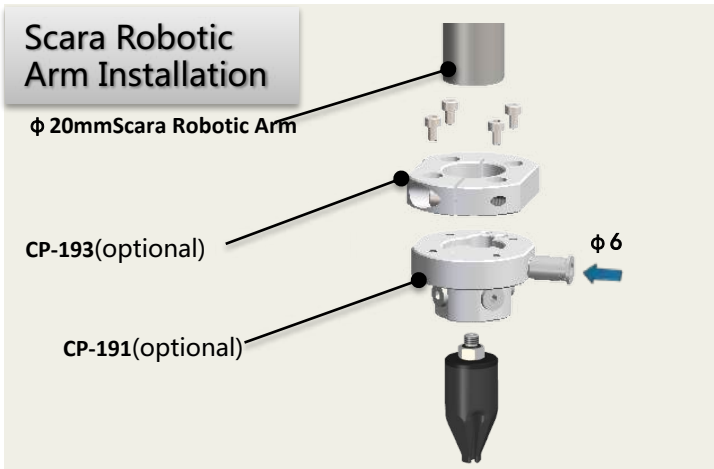
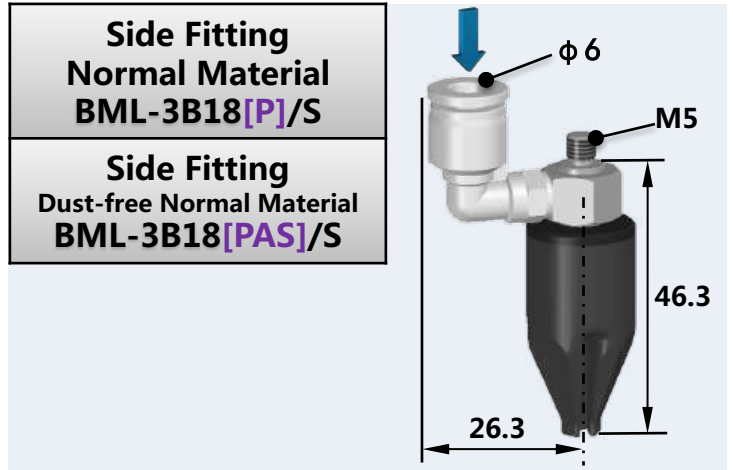
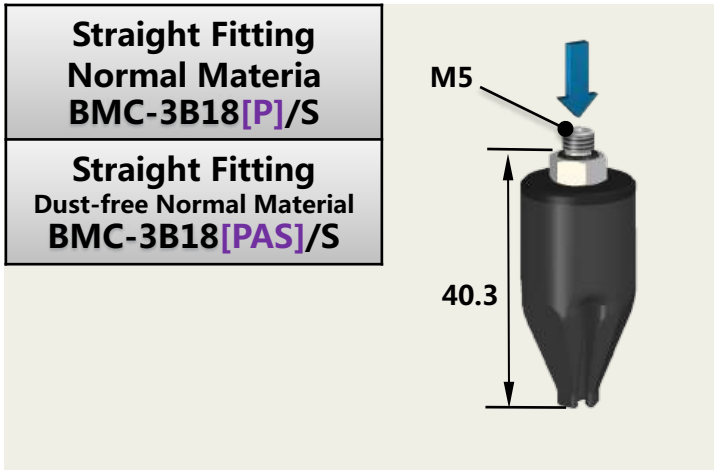
Repetitive Precision	±0.05mm	Recommend-ed Load	15g	Lifetime	1.5 million times*	Safe Pressure	+100kPa ⚠	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	×	Internal gripping force	0-0.15N	BMC Weight	15g	BML Weight	24g

\* : 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.





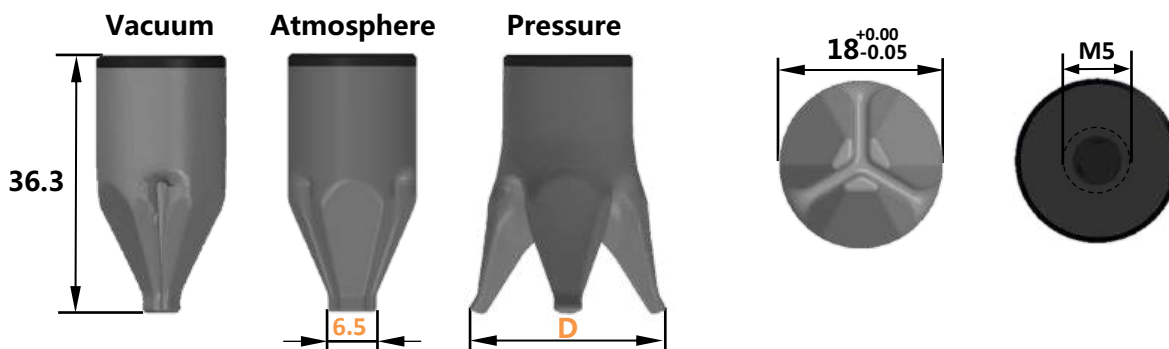
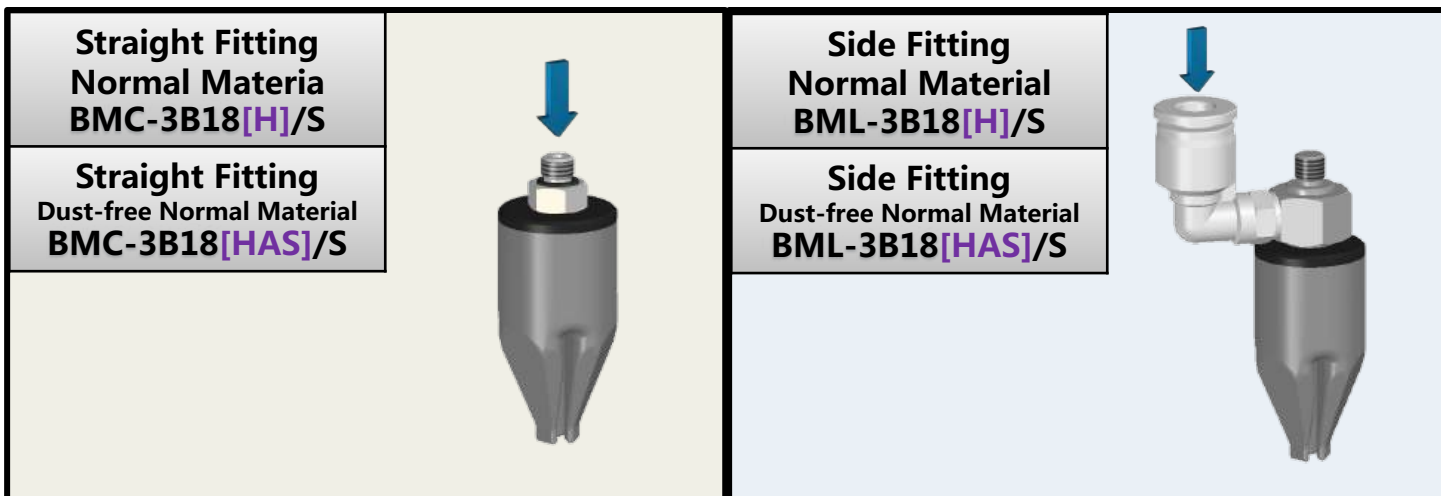
## Installation



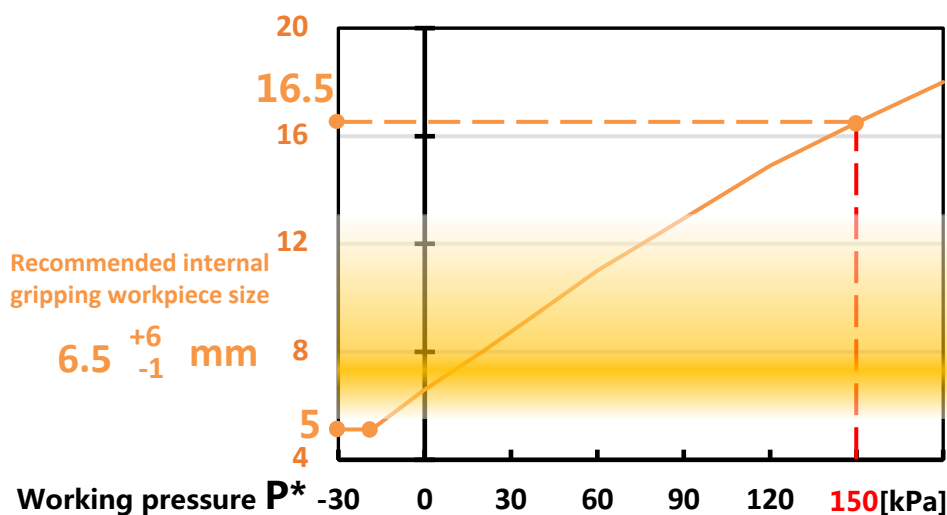


### Product features

- 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.



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



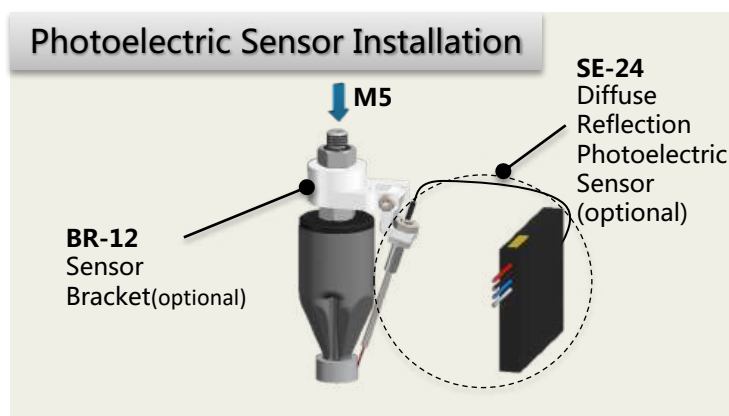
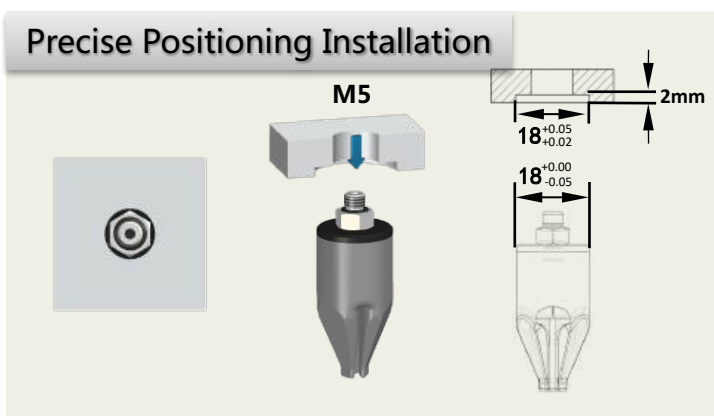
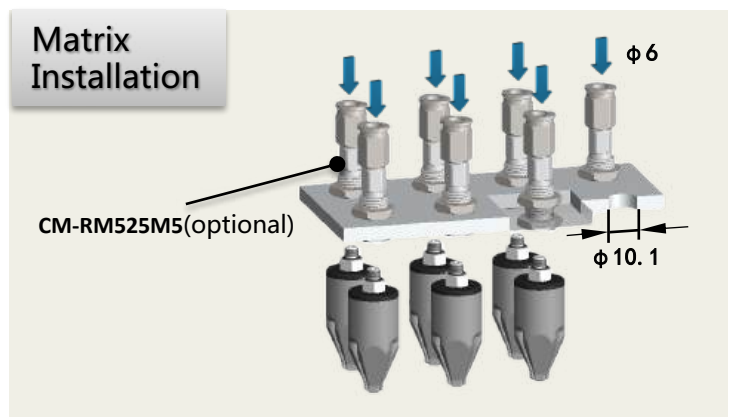
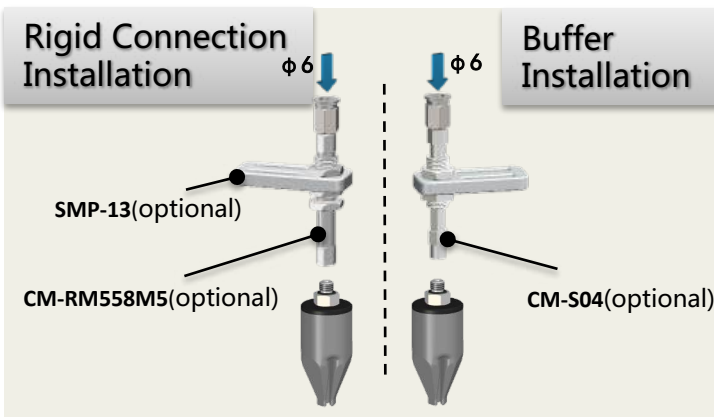
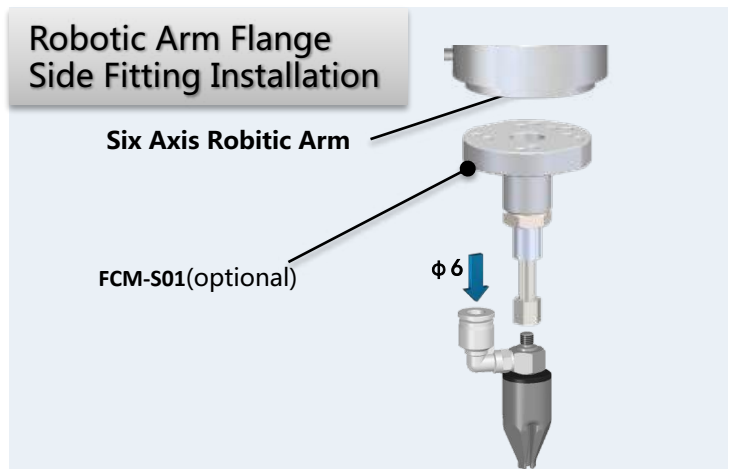
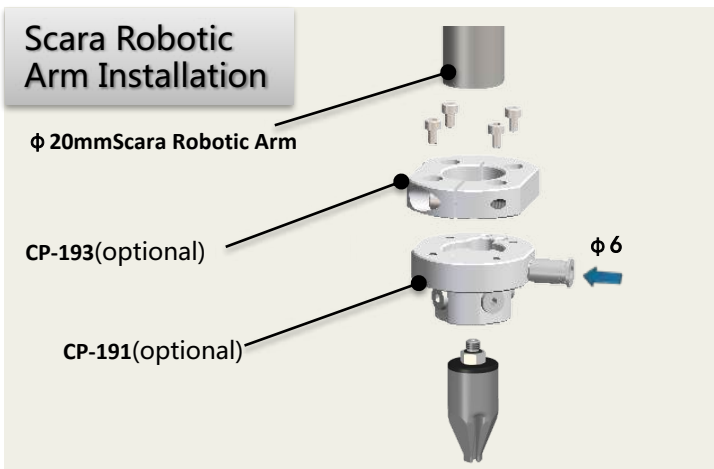
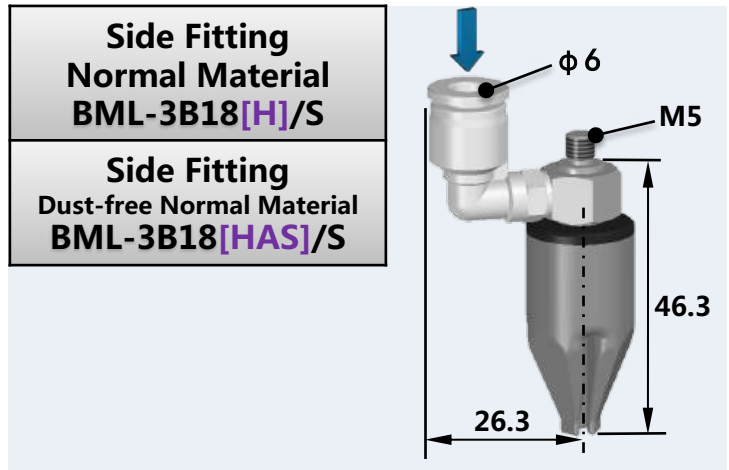
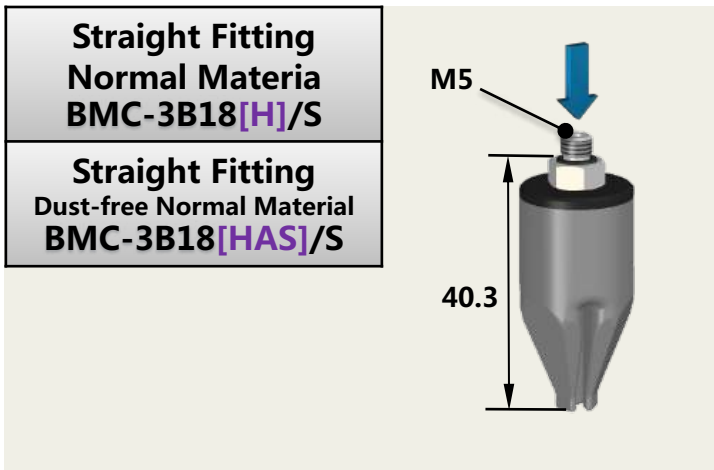
### Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	15g	Lifetime	1.5 million times*	Safe Pressure	+150kPa ⚠	Contact Temperature	180°C
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.



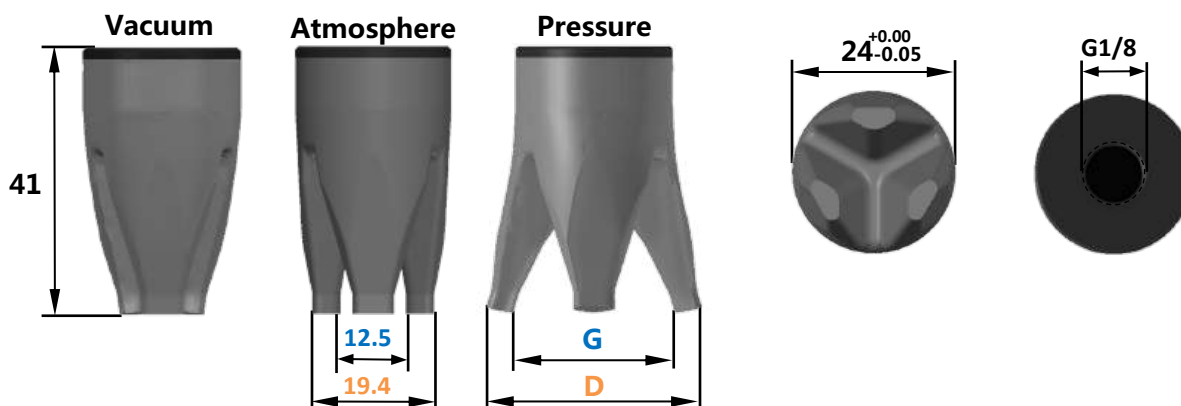
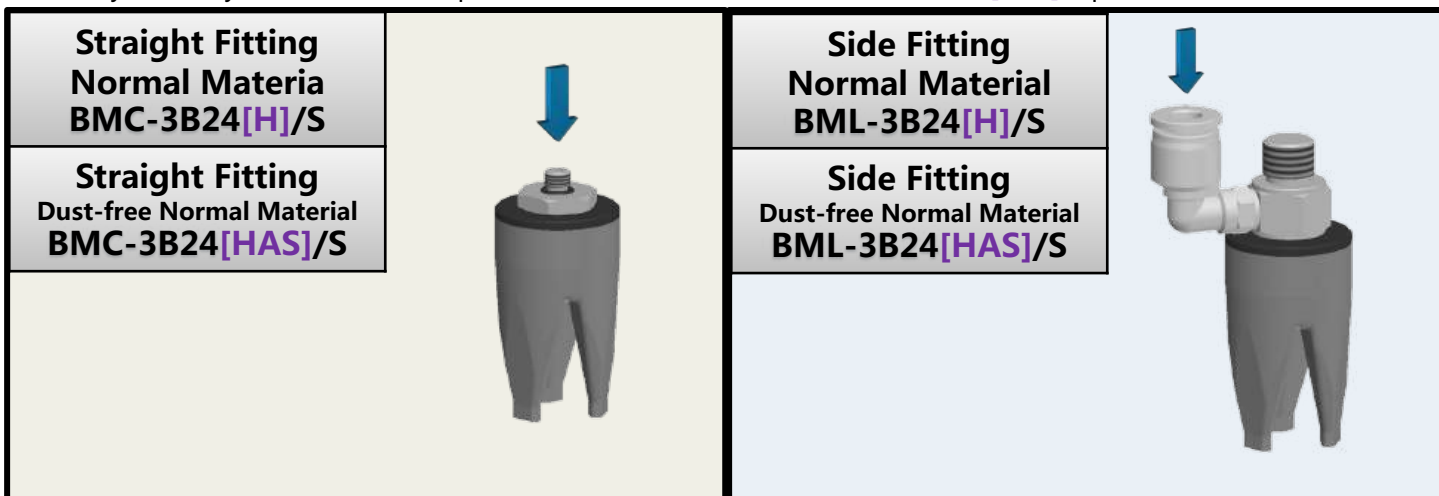
## Installation



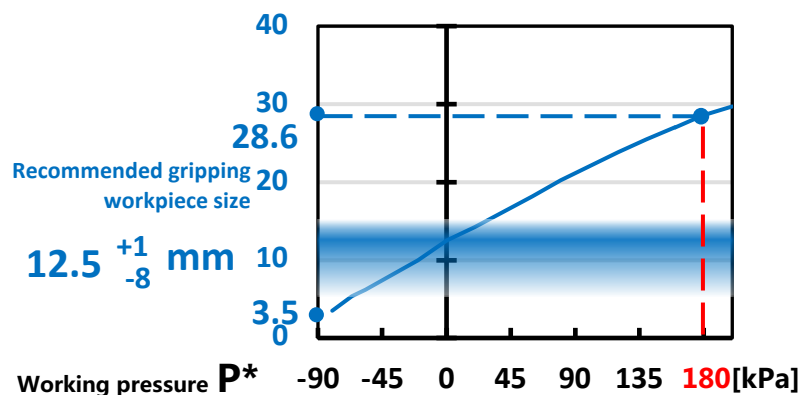


## Product features

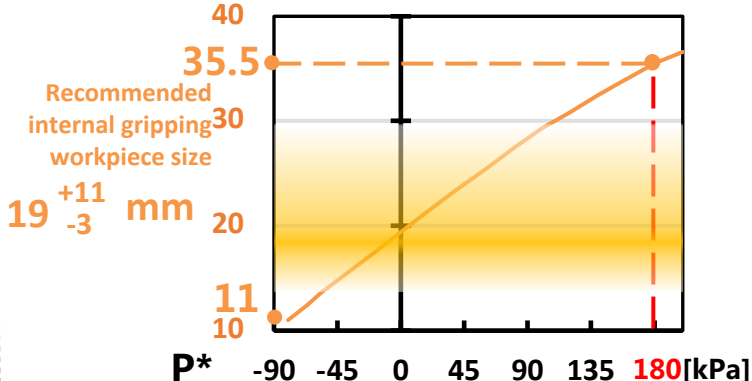
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free 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.



Gripping fingertip distance **G** [mm]



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



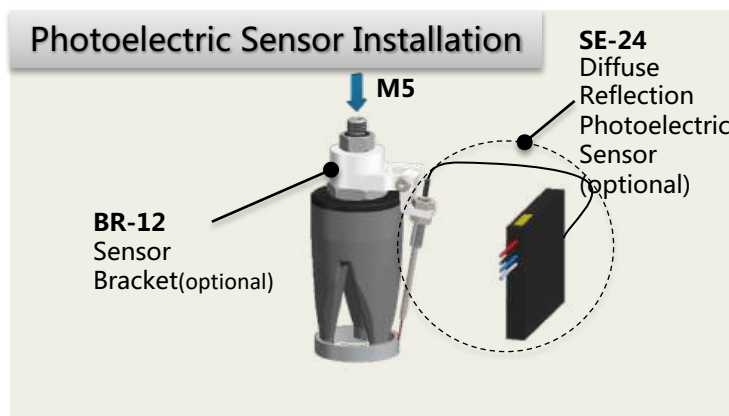
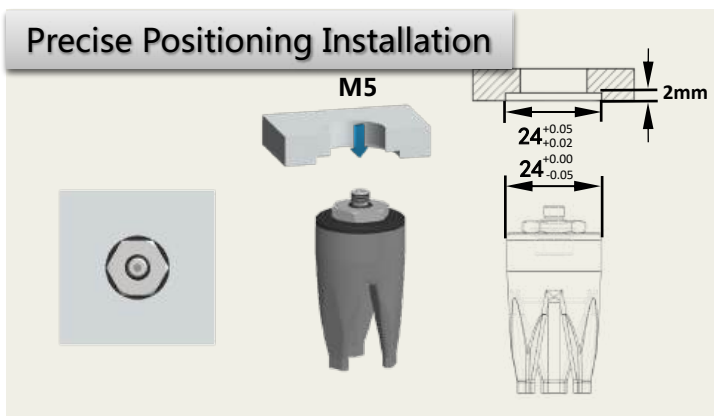
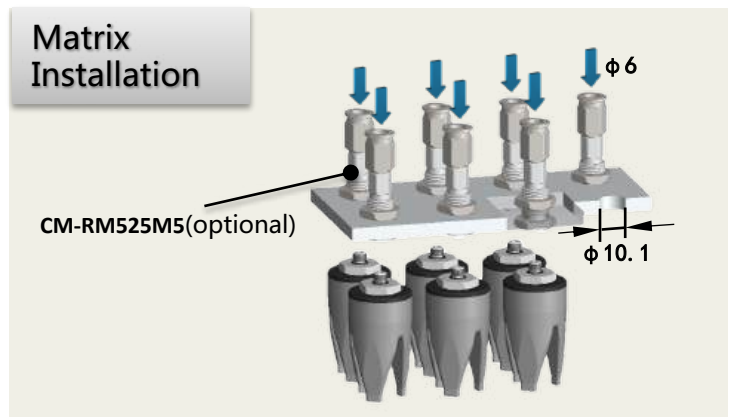
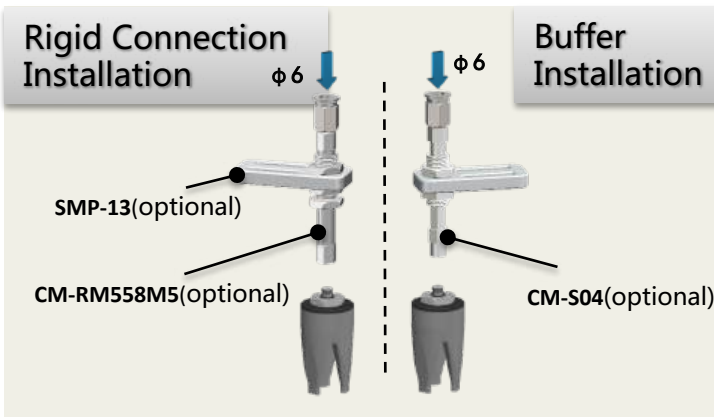
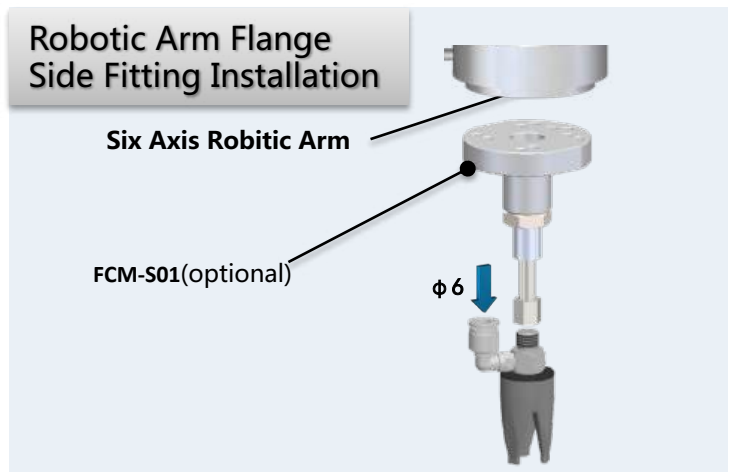
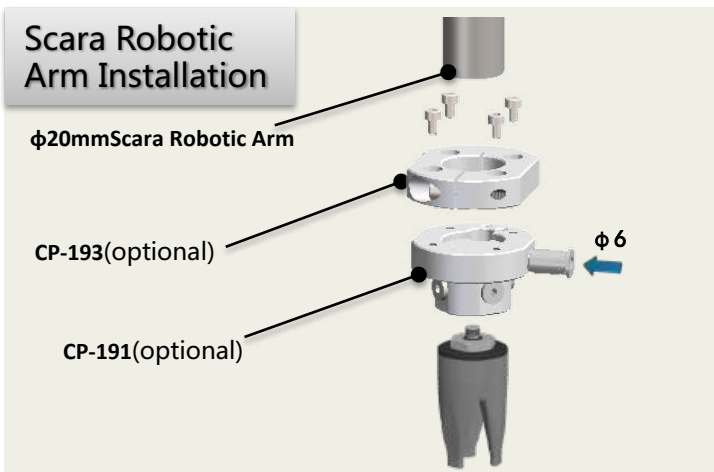
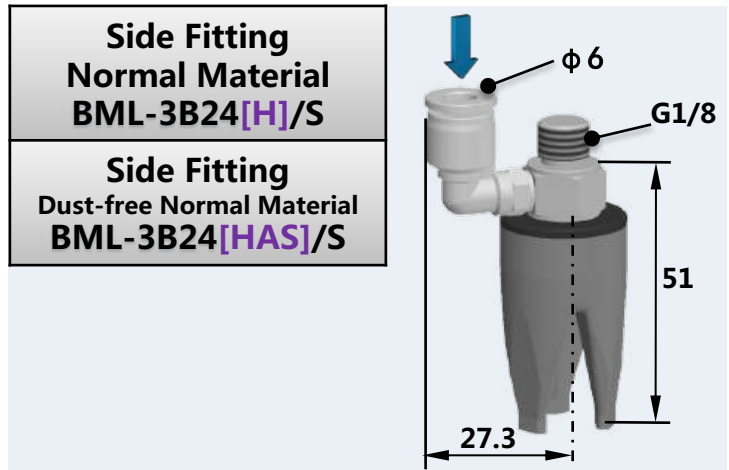
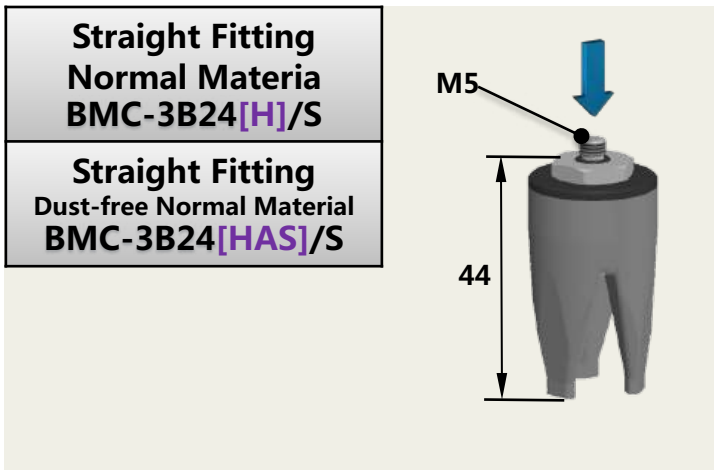
## Parameter

Repetitive Precision	±0.05mm	Recommend -ed Load	30g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180°C
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

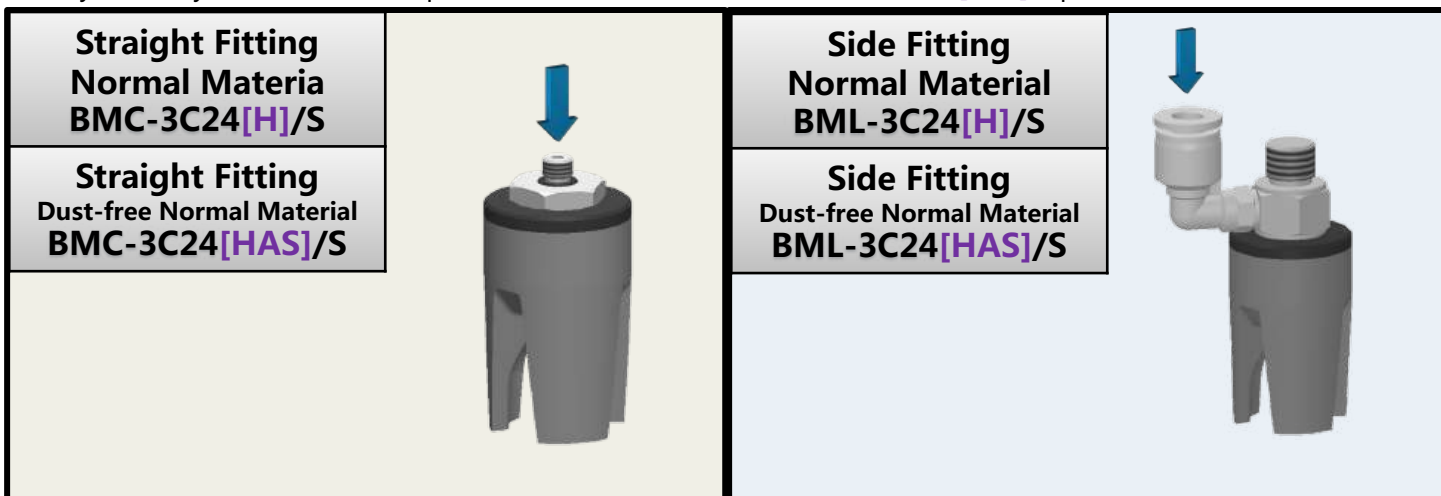




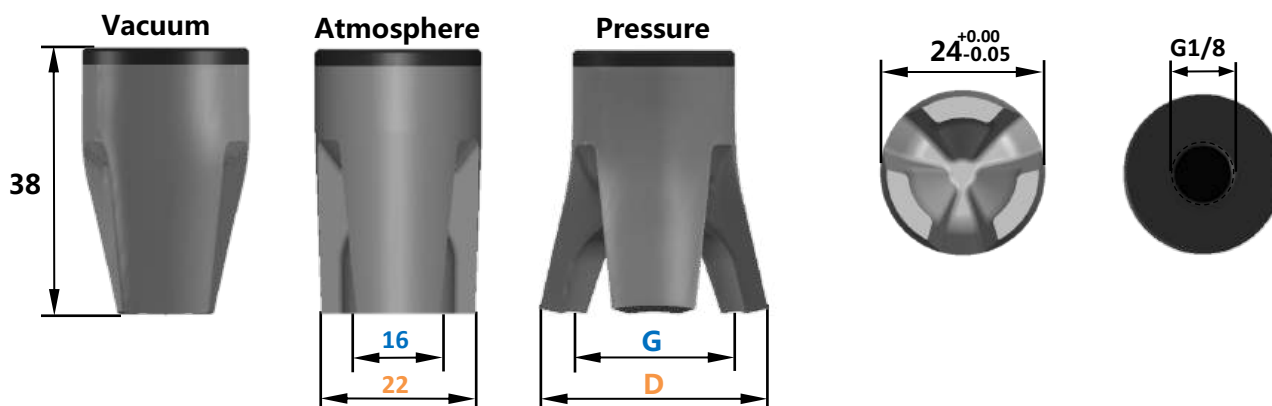
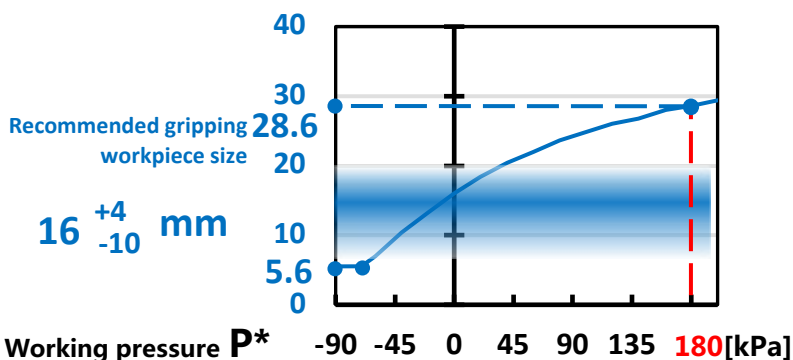
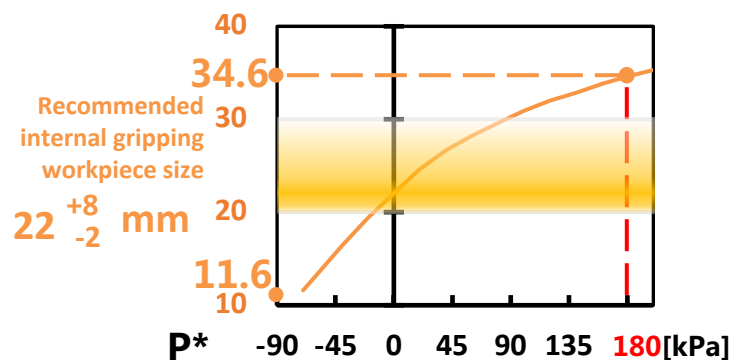


## Product features

- 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


 Gripping fingertip distance **G** [mm]

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


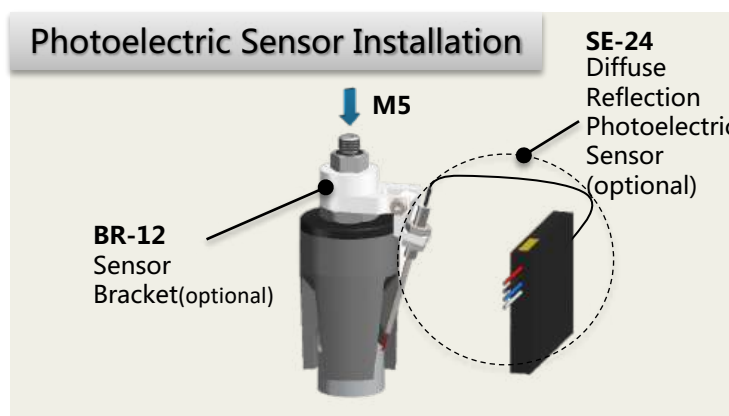
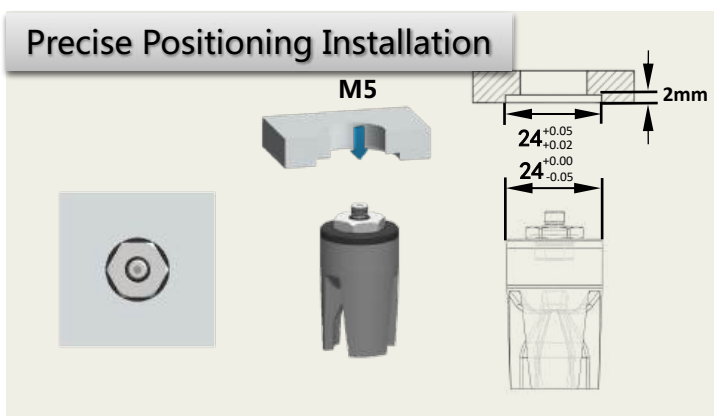
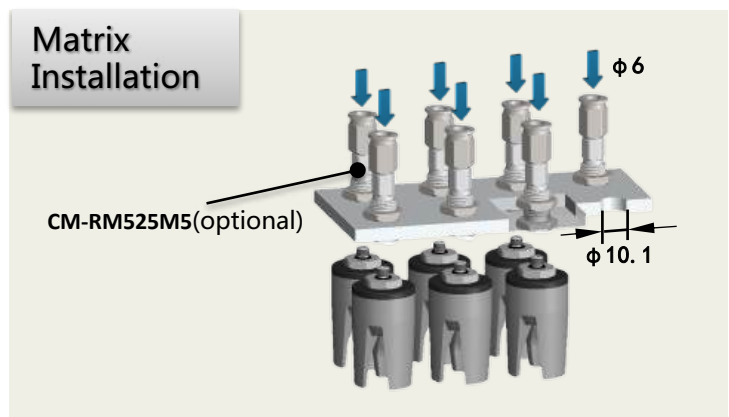
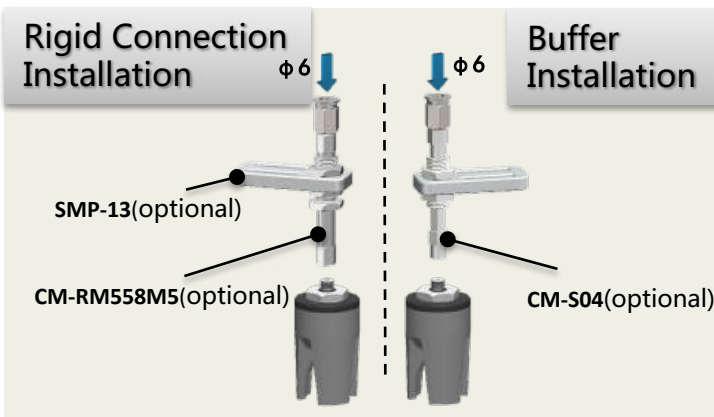
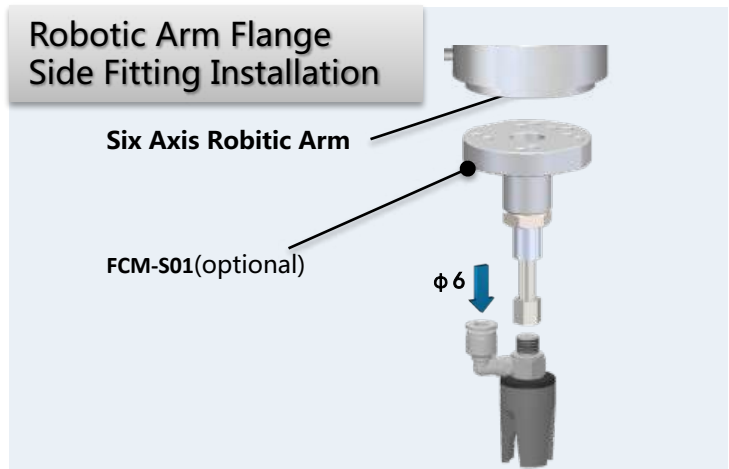
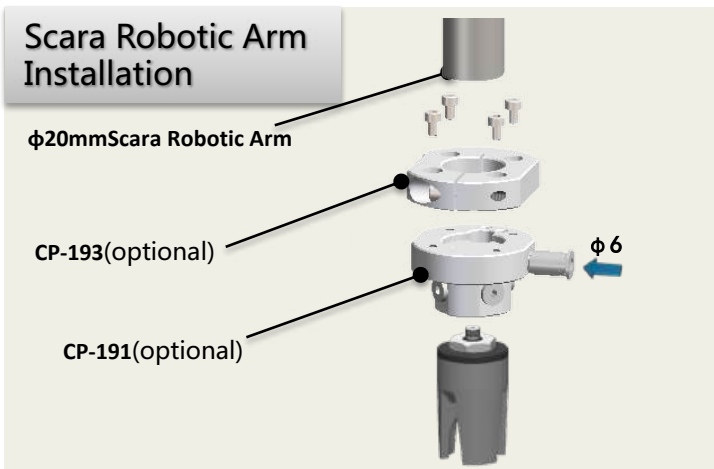
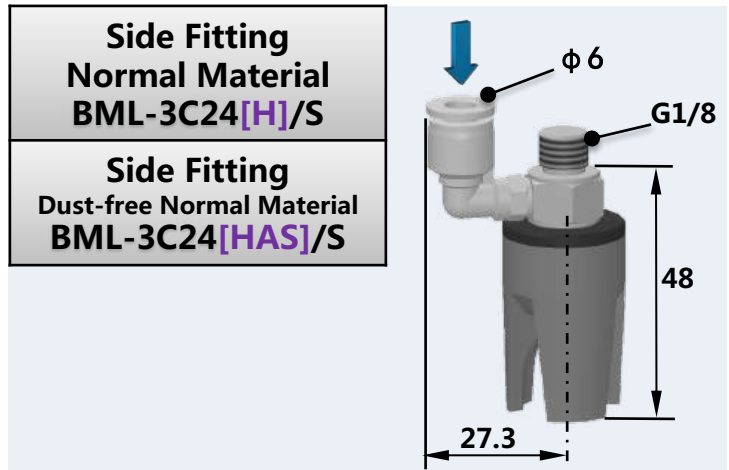
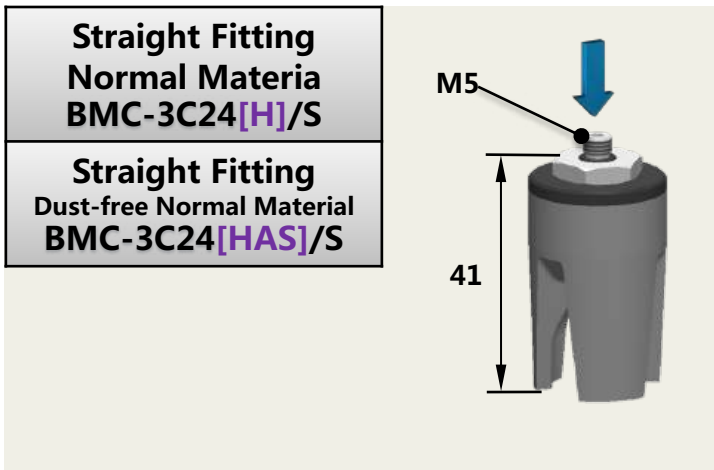
## Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	80g	Lifetime	1.5 million times*	Safe Pressure	+180kPa ⚠	Contact Temperature	180°C
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.



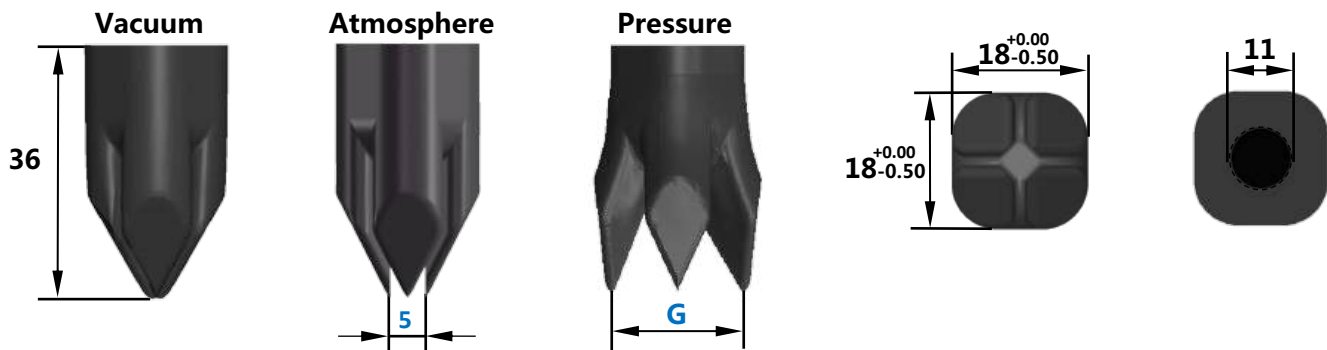
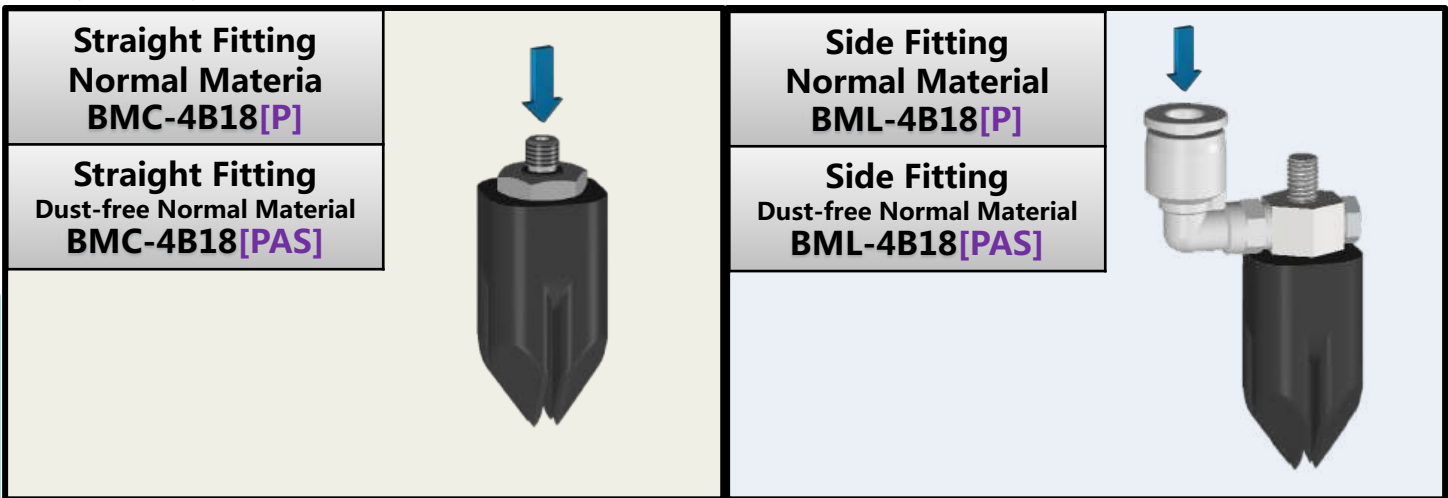
## Installation



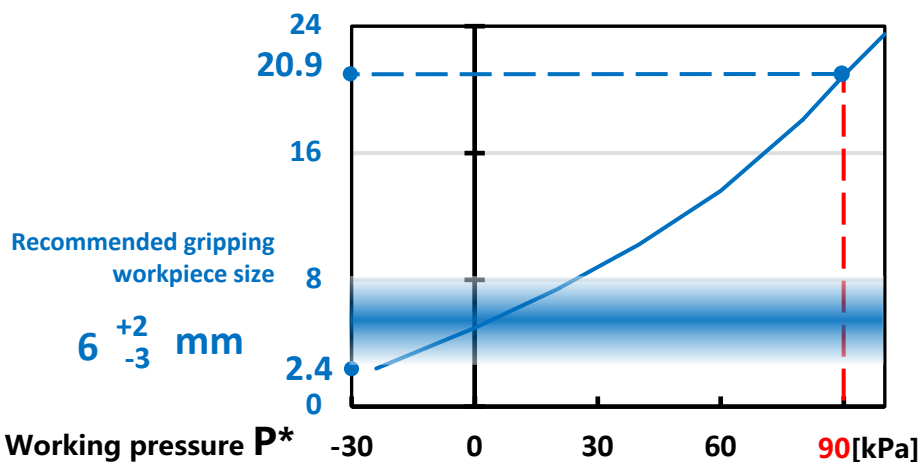


## Product features

- 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.



Gripping fingertip distance  $G$  [mm]



## Parameter

Repetitive Precision	$\pm 0.05\text{mm}$	Recommend-ed Load	5g	Lifetime	1.5 million times*	Safe Pressure	+90kPa	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.05N	Internal gripping force	x	BMC Weight	13.6g	BML Weight	22g

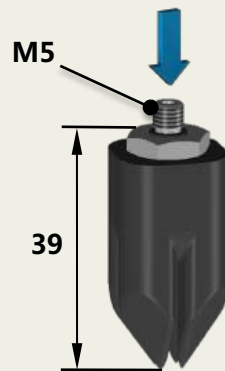
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use RoChu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

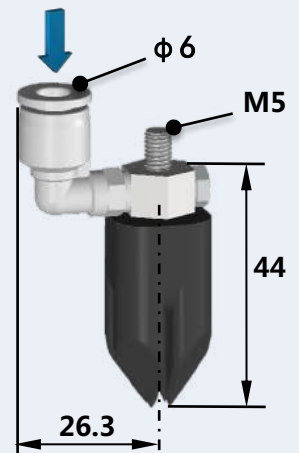
**Straight Fitting**  
Normal Material  
**BMC-4B18[P]**

**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]**

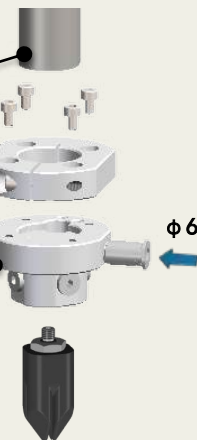


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

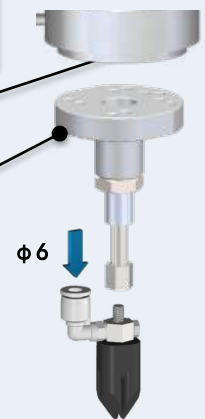
CP-191(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



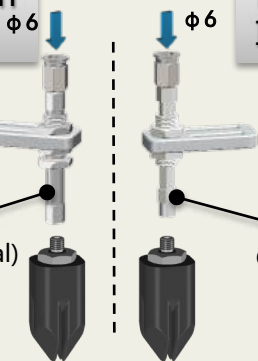
### Rigid Connection Installation

SMP-13(optional)

CM-RM558M5(optional)

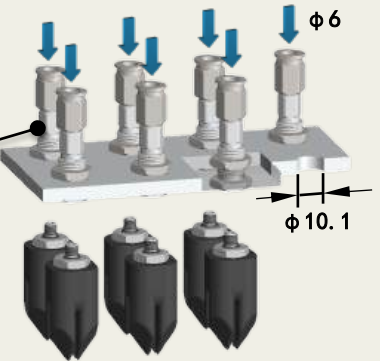
### Buffer Installation

CM-S04(optional)

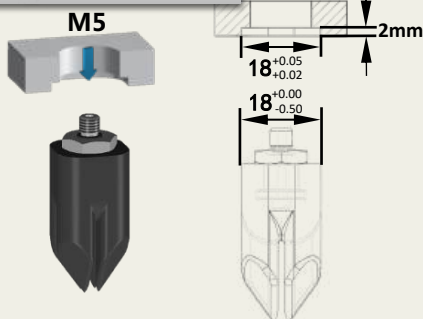


### Matrix Installation

CM-RM525M5(optional)



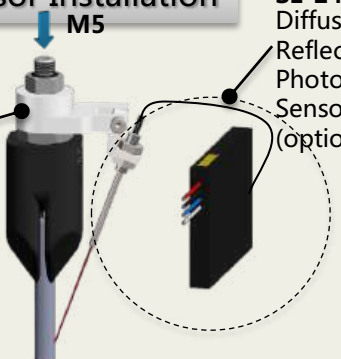
### Precise Positioning Installation



### Photoelectric Sensor Installation

BR-12 Sensor Bracket(optional)

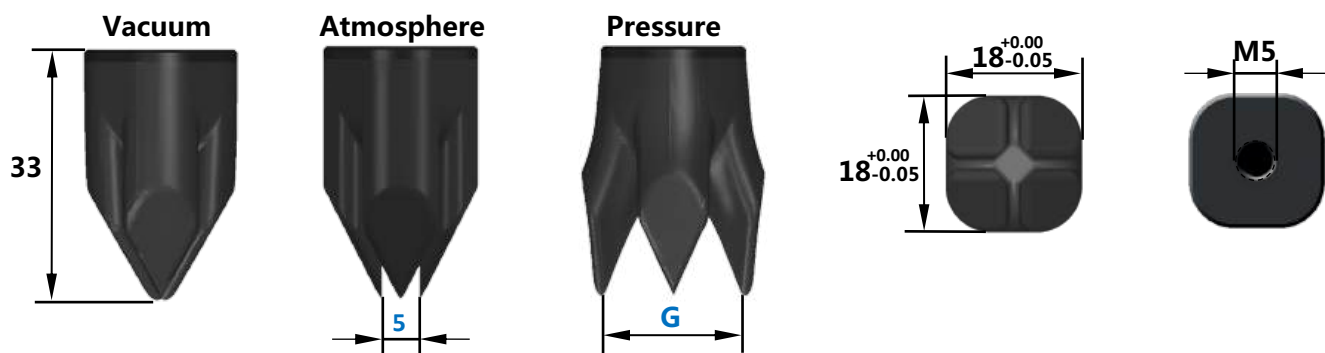
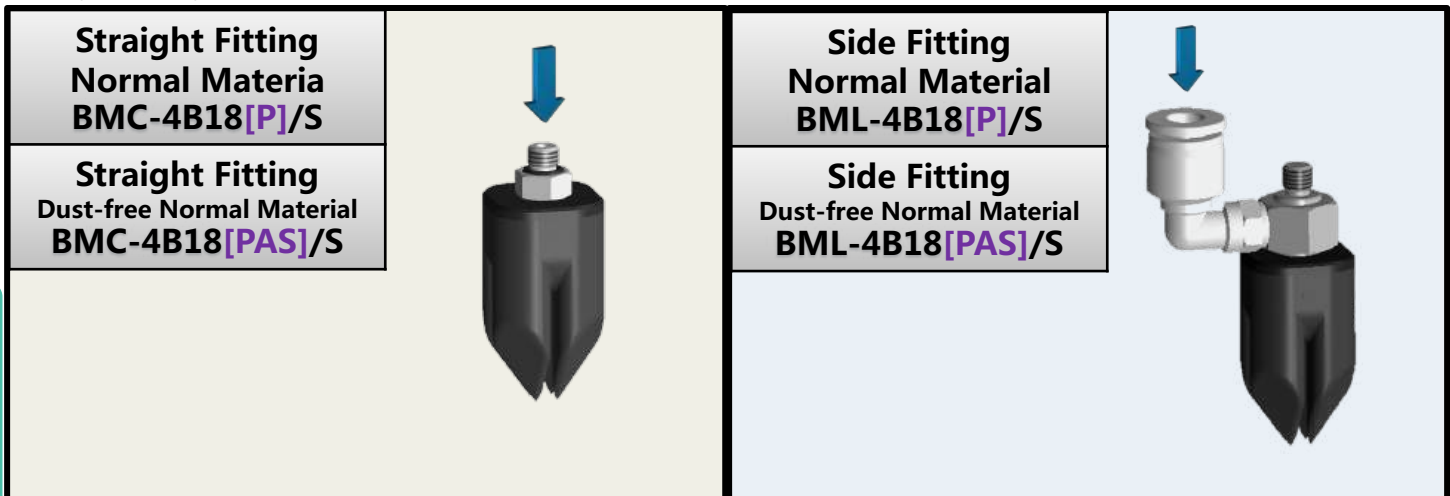
SE-24 Diffuse Reflection Photoelectric Sensor(optional)



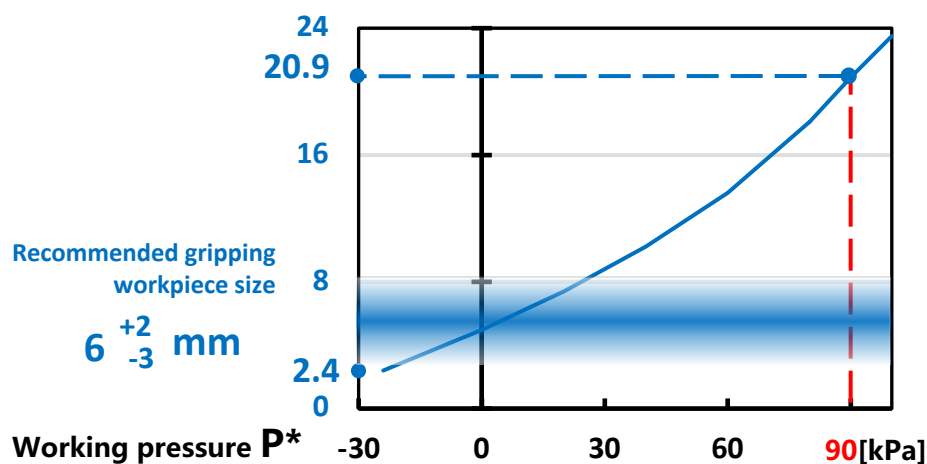


## Product features

- 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.



Gripping fingertip distance **G** [mm]



## Parameter

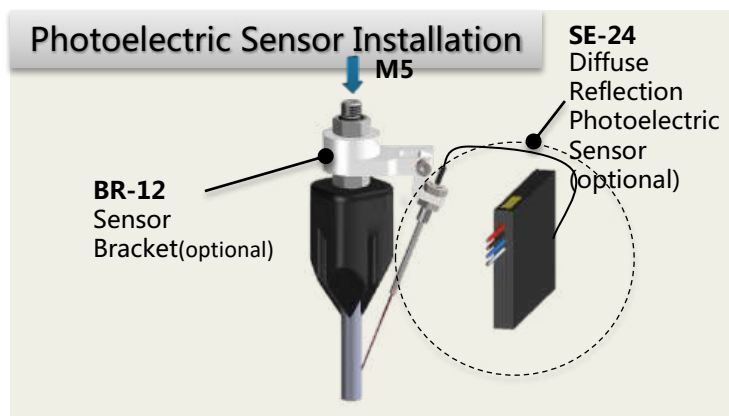
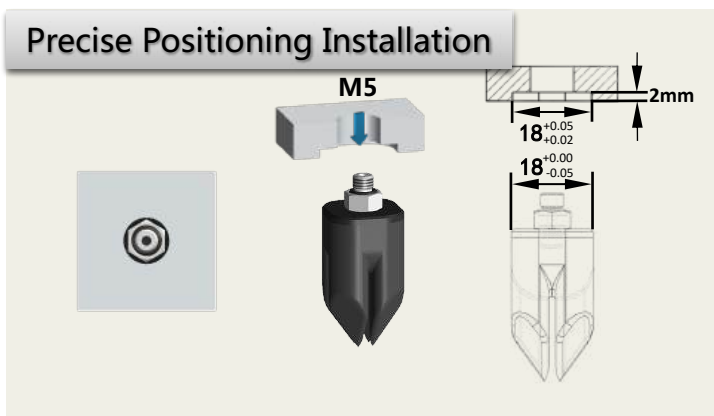
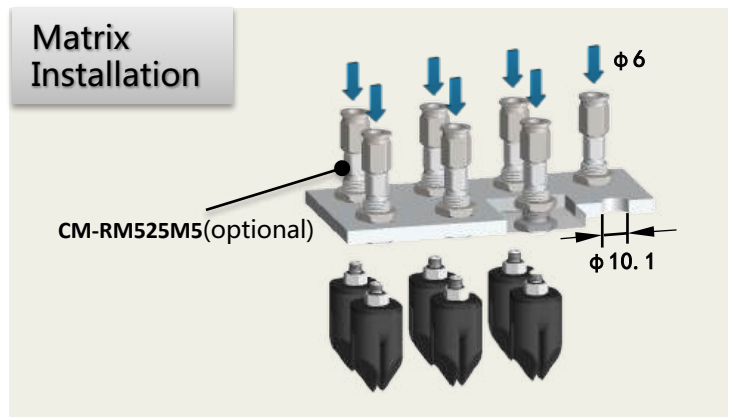
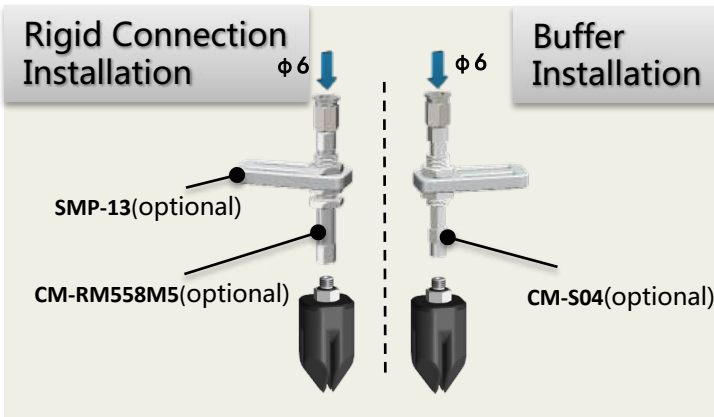
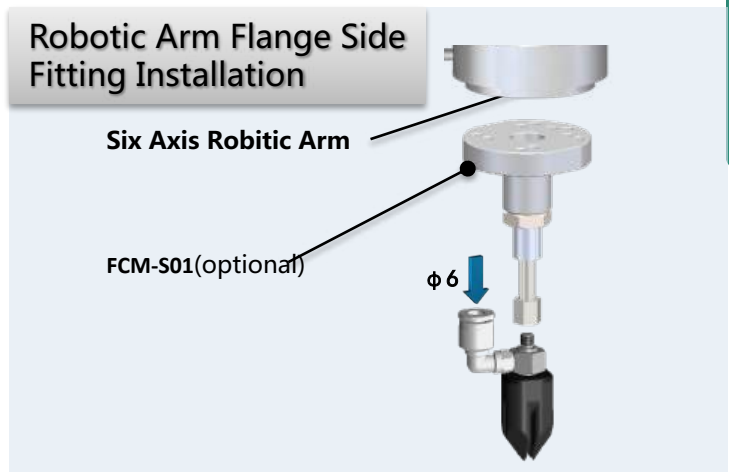
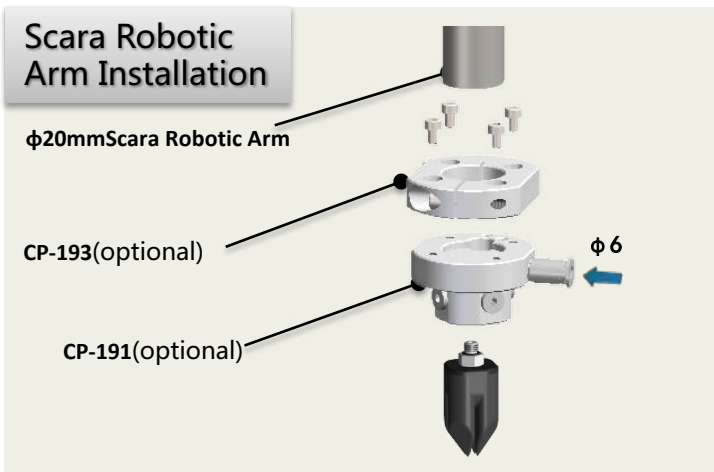
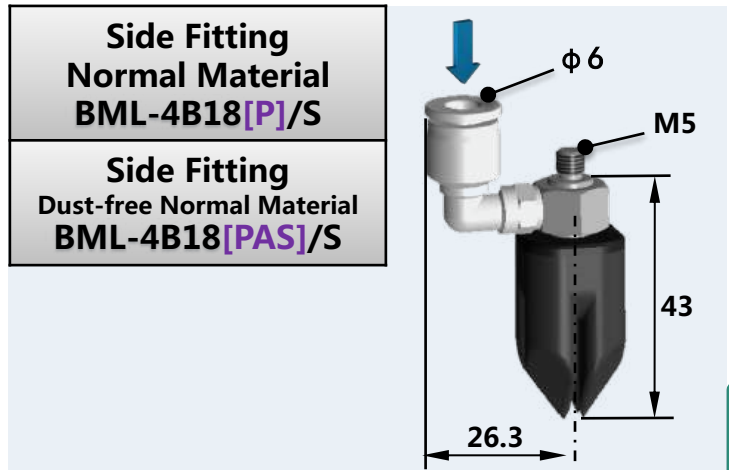
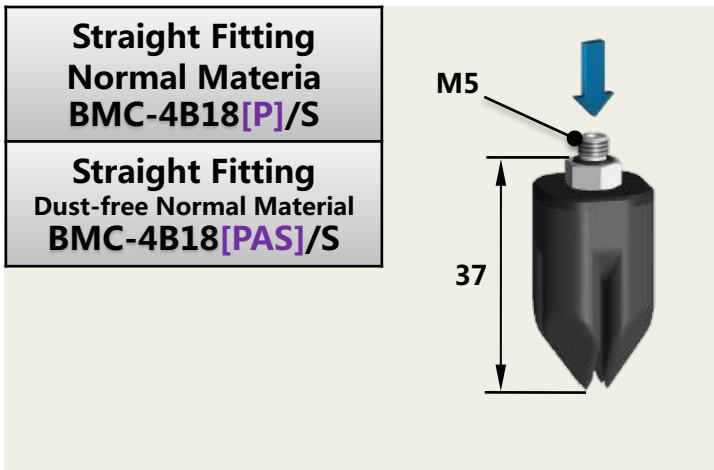
Repetitive Precision	±0.05mm	Recommend-ed Load	5g	Lifetime	1.5 million times*	Safe Pressure	+90kPa	Contact Temperature	180°C
Frequency	6times/sec	External gripping force	0-0.05N	Internal gripping force	x	BMC Weight	11g	BML Weight	20g

\* : 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.





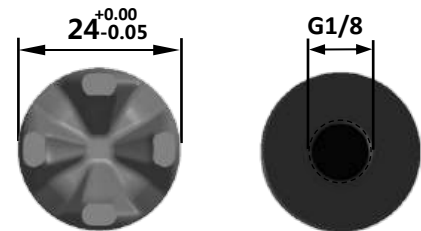
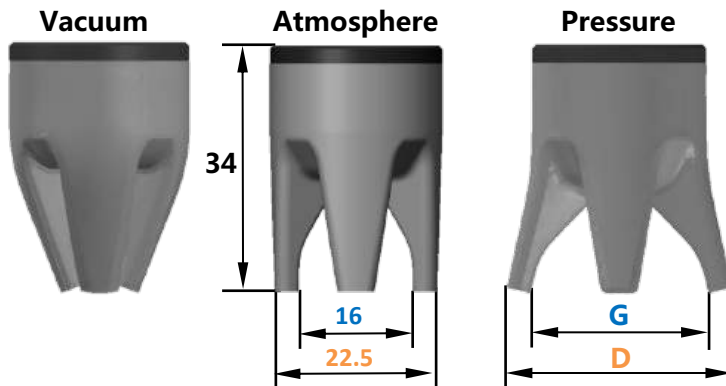
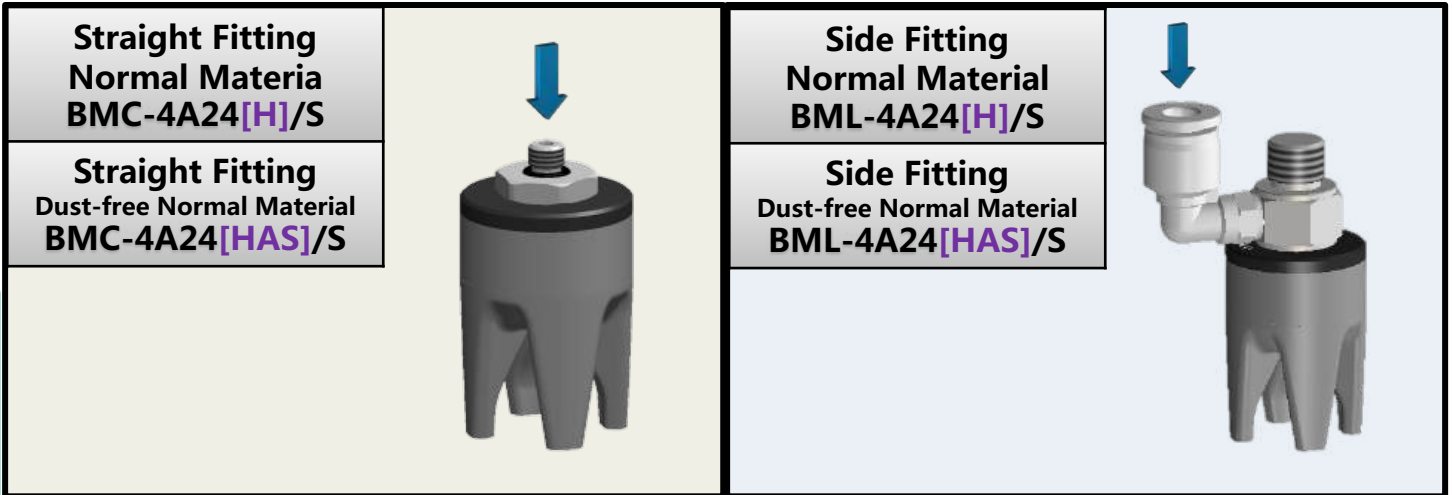
## Installation



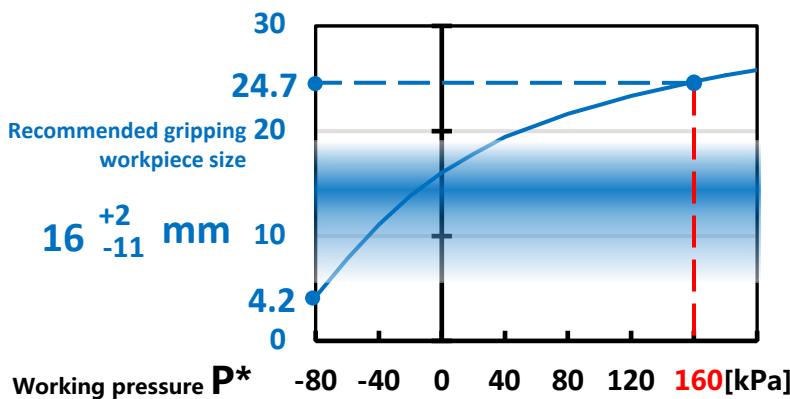


### Product features

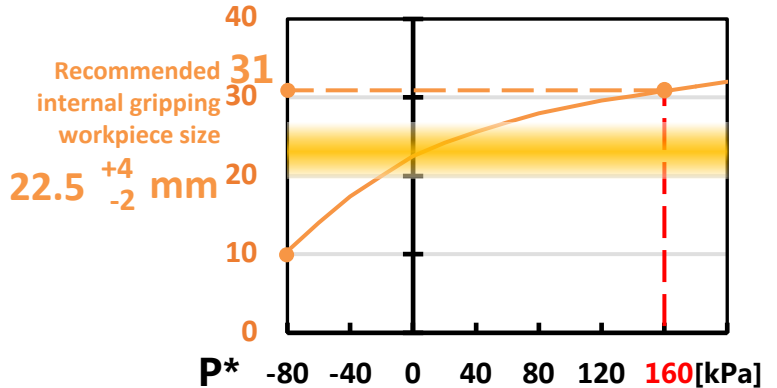
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free 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.



Gripping fingertip distance **G** [mm]



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



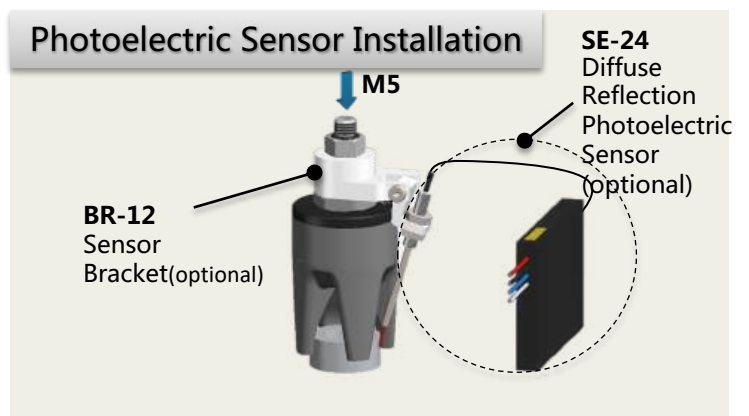
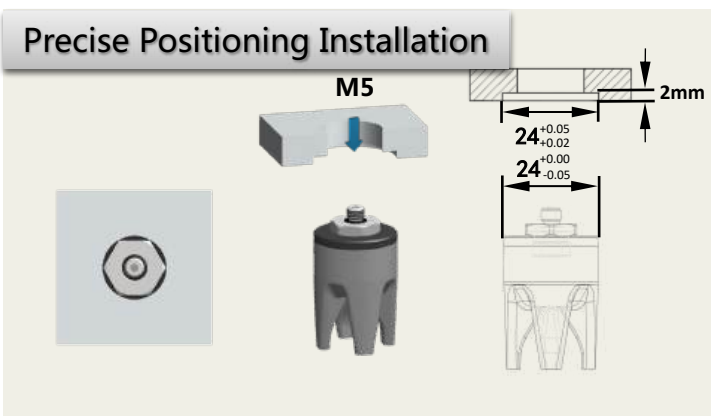
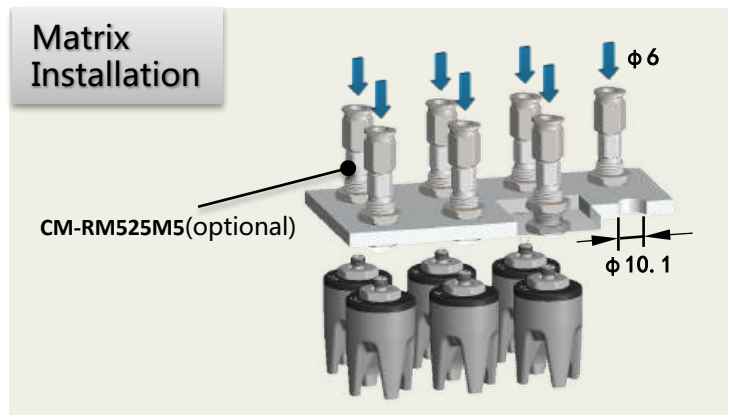
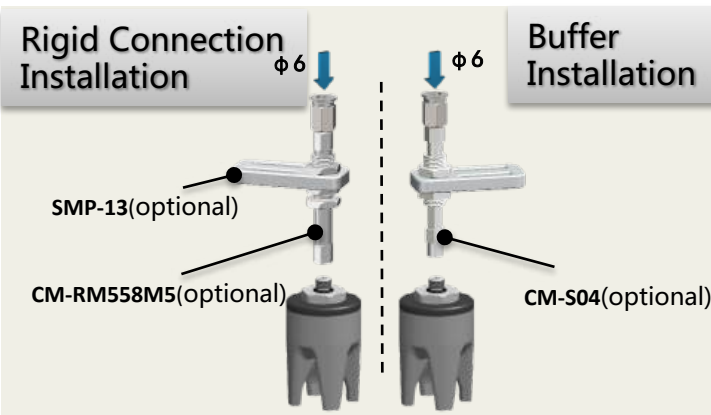
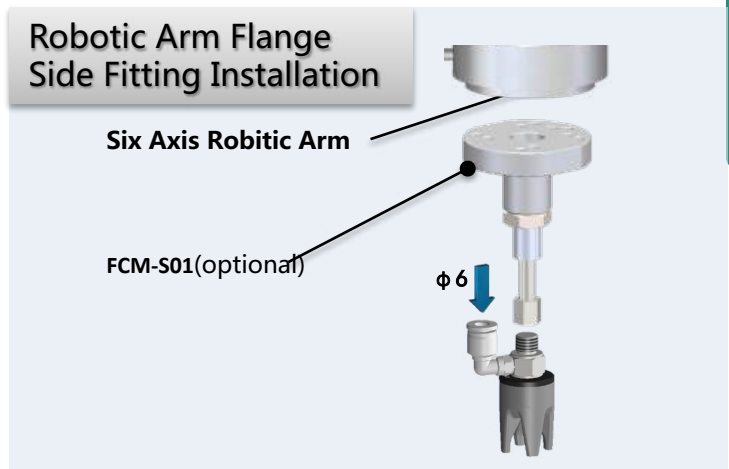
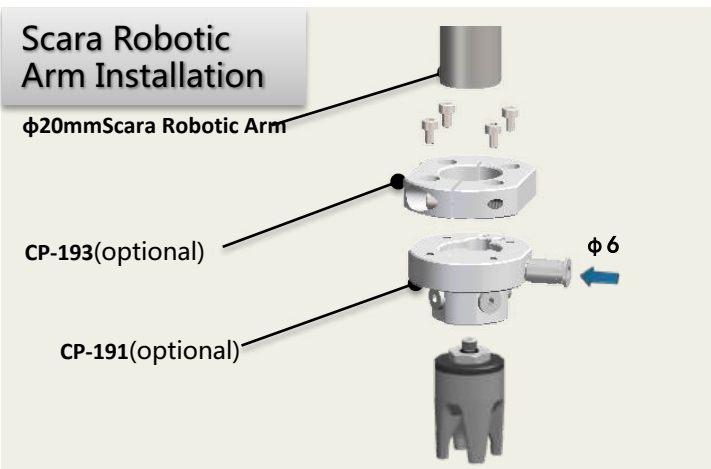
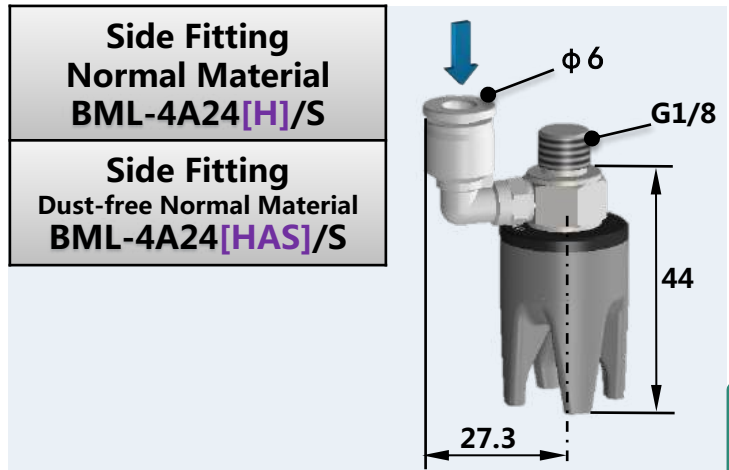
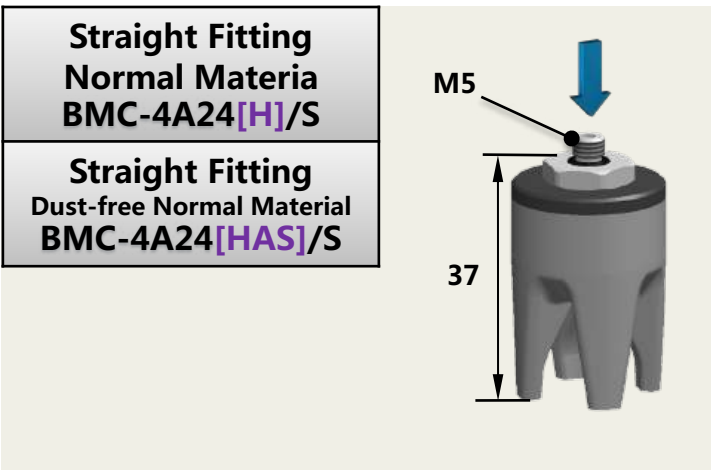
### Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	60g	Lifetime	1.5 million times*	Safe Pressure	+160kPa ⚠	Contact Temperature	180°C
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.



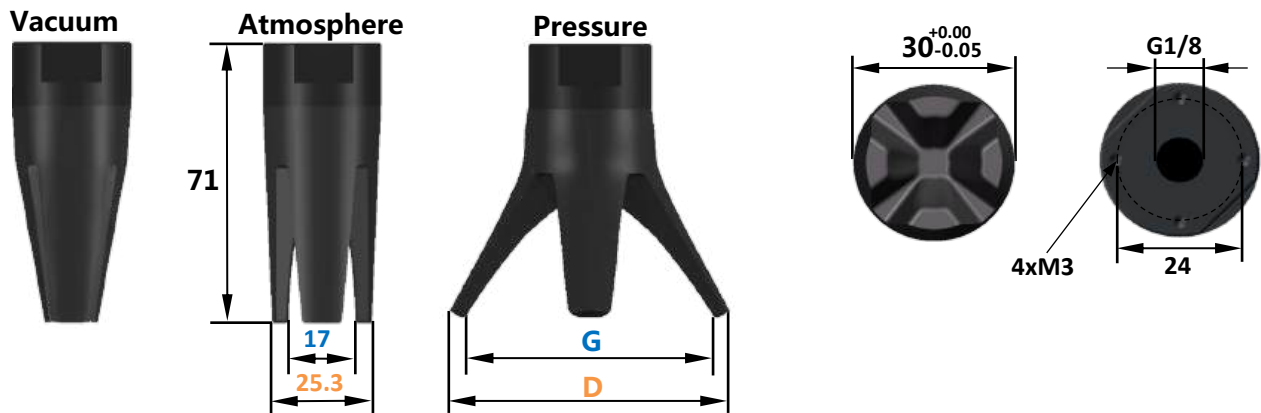
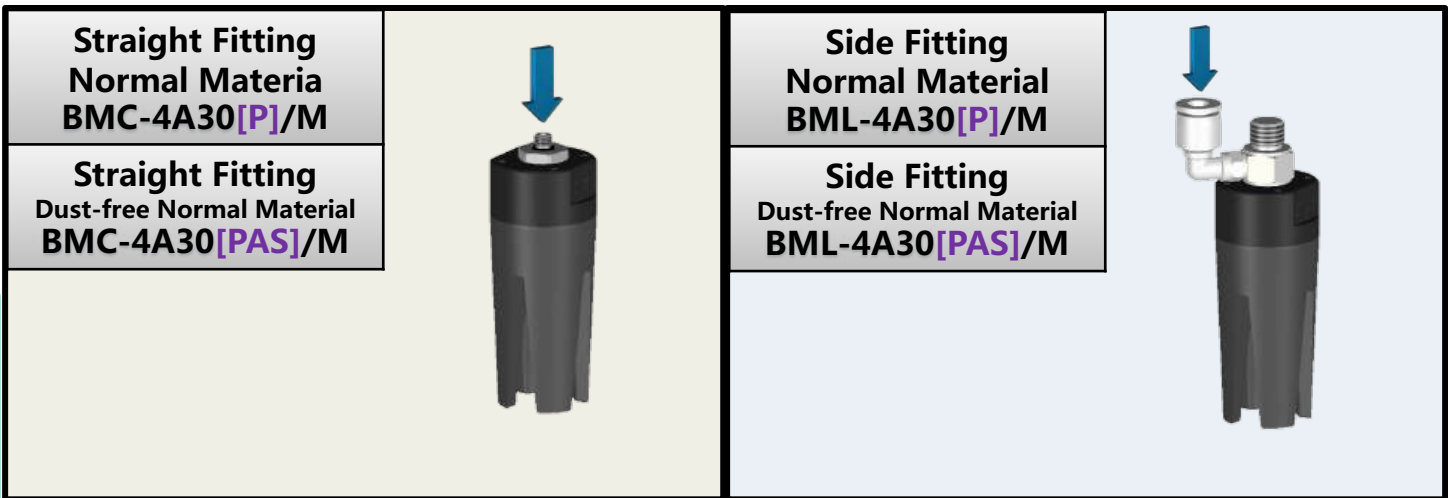
## Installation



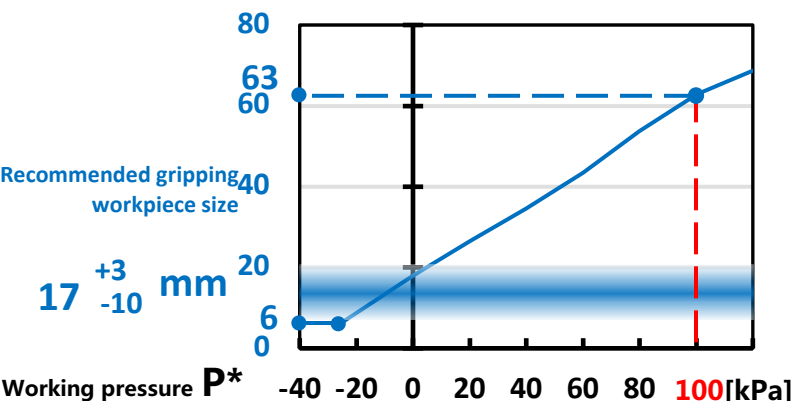


## Product features

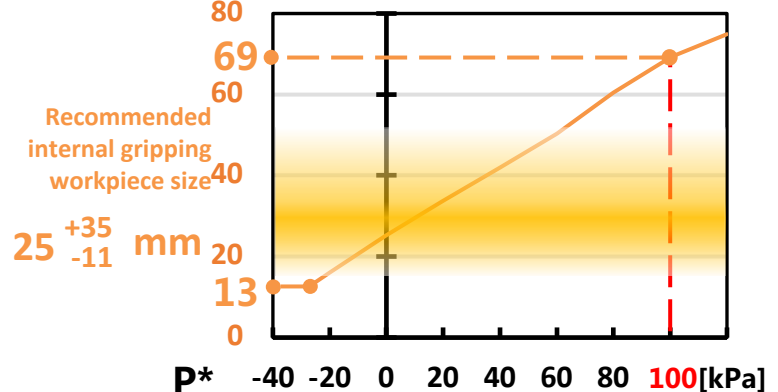
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal 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.



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°C
Frequency	6times/sec	External gripping force	0-0.4N	Internal gripping force	0-1N	BMC Weight	47g	BML Weight	62g

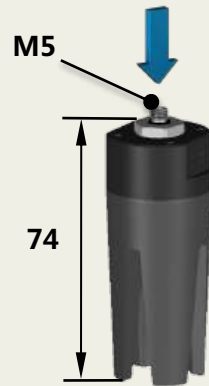
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

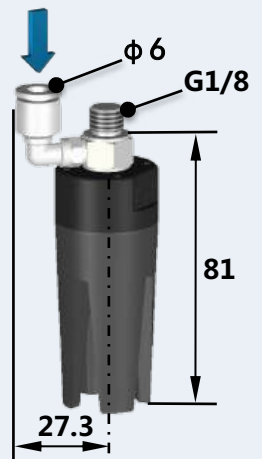
**Straight Fitting**  
Normal Material  
BMC-4A30[PJ]/M

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



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

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

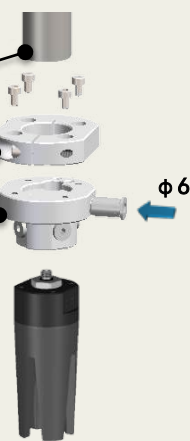


**Scara Robotic Arm Installation**

φ20mm Scara Robotic Arm

CP-193(optional)

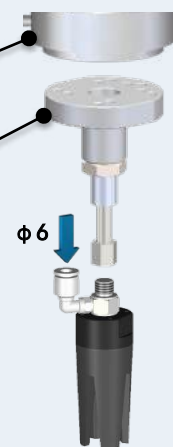
CP-191(optional)



**Robotic Arm Flange Side Fitting Installation**

Six Axis Robotic Arm

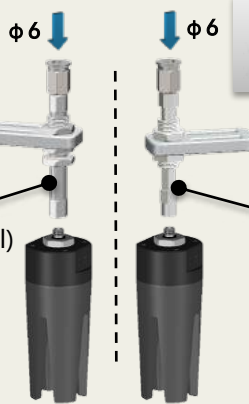
FCM-S01(optional)



**Rigid Connection Installation**

SMP-13(optional)

CM-RM558M5(optional)

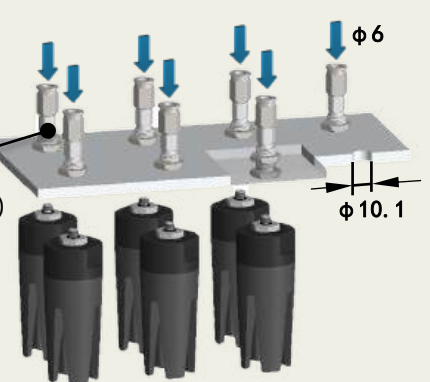


**Buffer Installation**

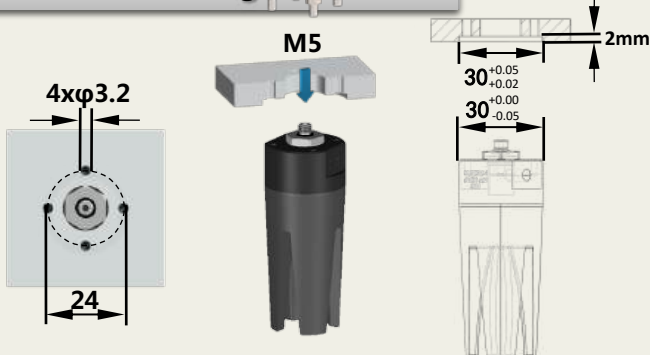
CM-S04(optional)

**Matrix Installation**

CM-RM525M5(optional)



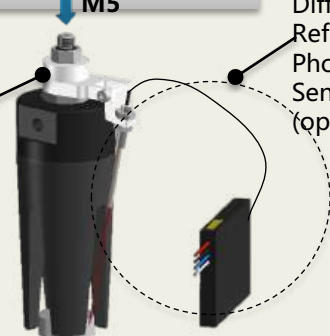
**Precise Positioning Installation**



**Photoelectric Sensor Installation**

**BR-12**  
Sensor Bracket(optional)

**SE-24**  
Diffuse Reflection Photoelectric Sensor (optional)

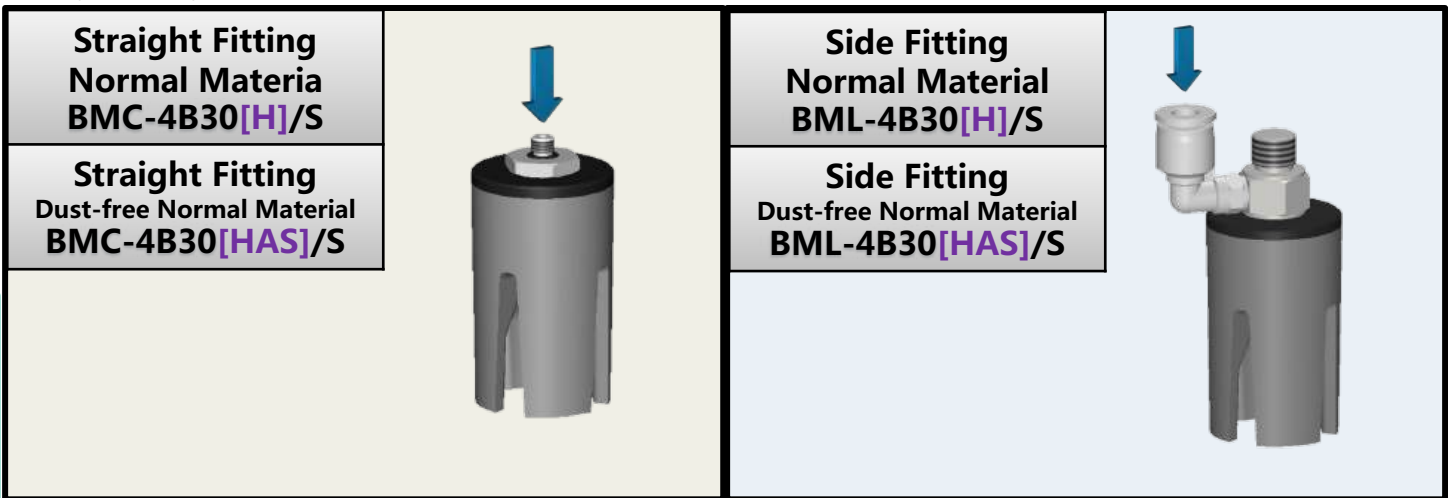






### Product features

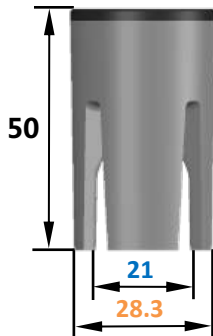
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free 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.



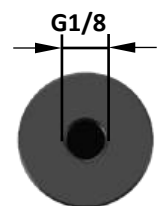
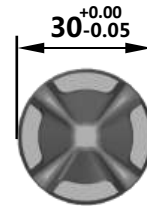
Vacuum



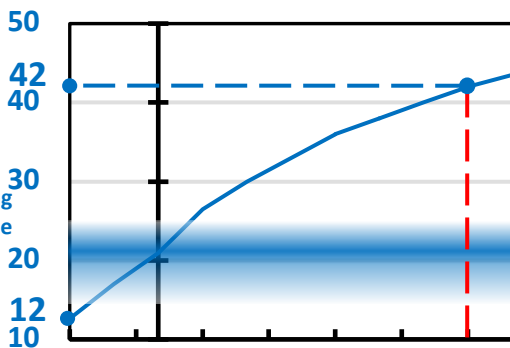
Atmosphere



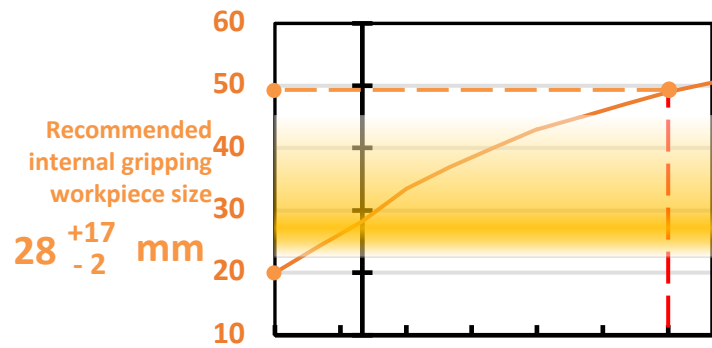
Pressure



Gripping fingertip distance **G** [mm]



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



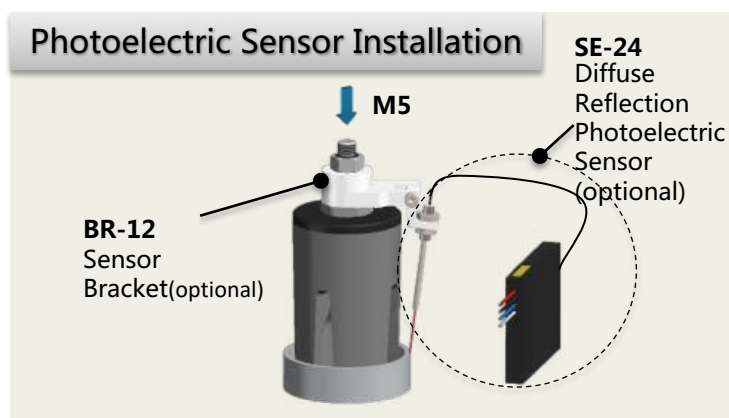
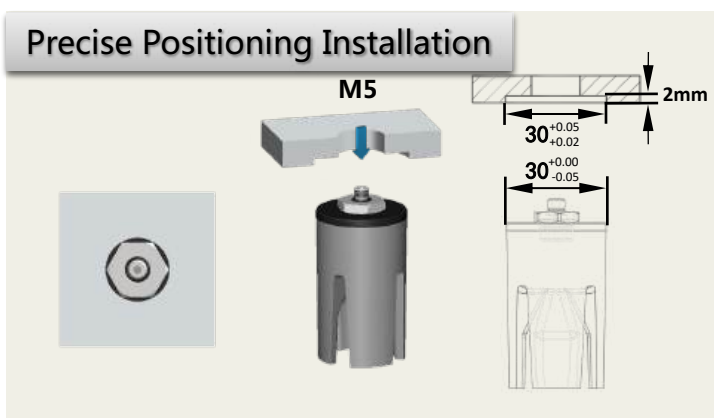
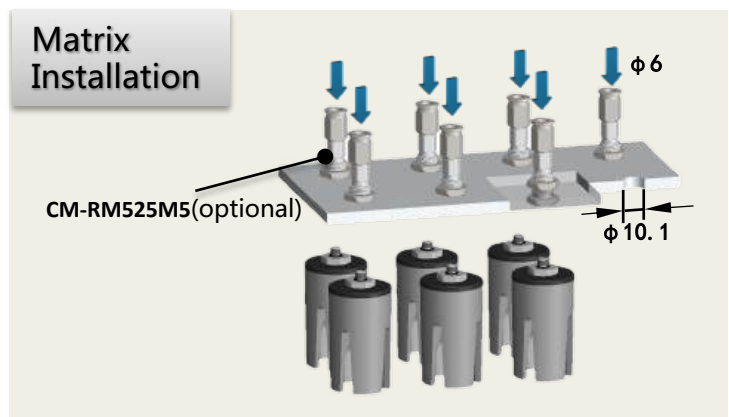
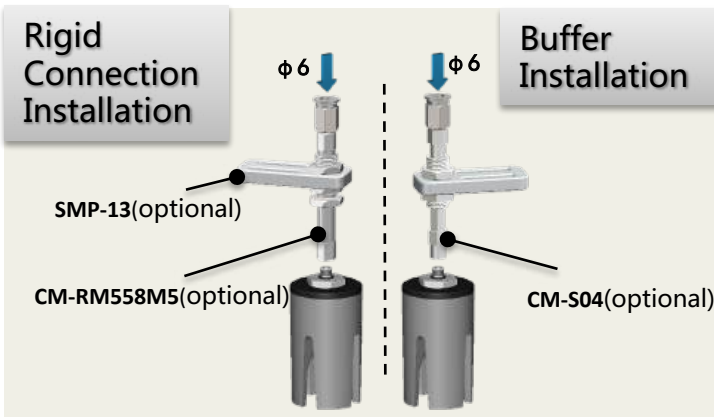
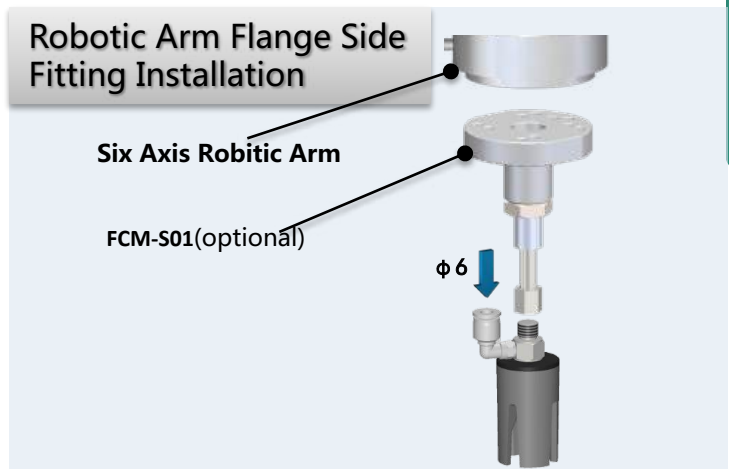
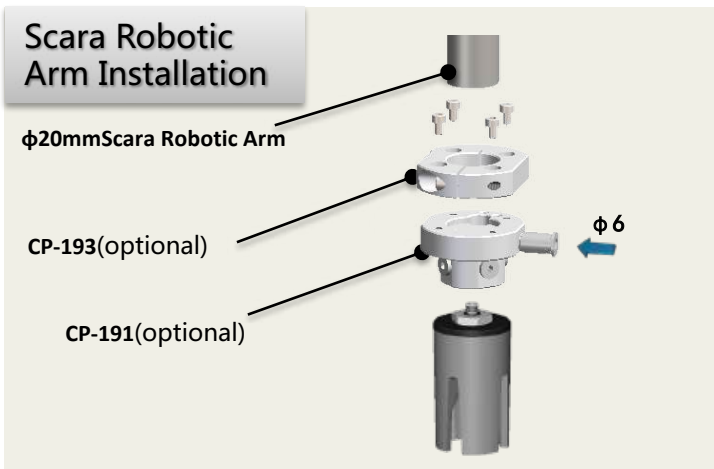
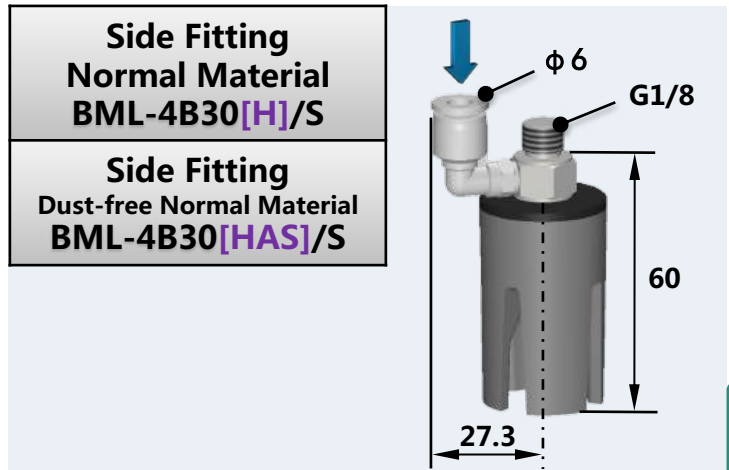
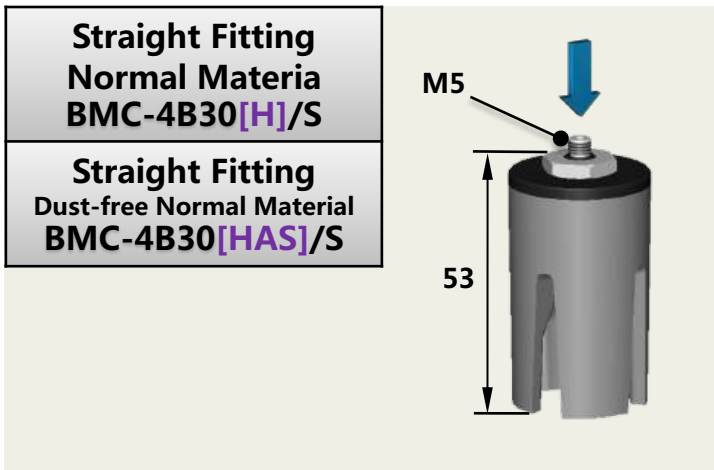
### Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	150g	Lifetime	1.5 million times*	Safe Pressure	+140kPa ⚠	Contact Temperature	180°C
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.



## Installation



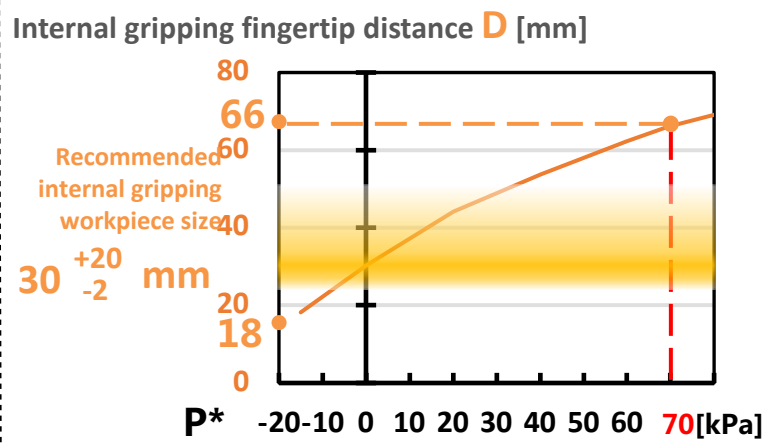
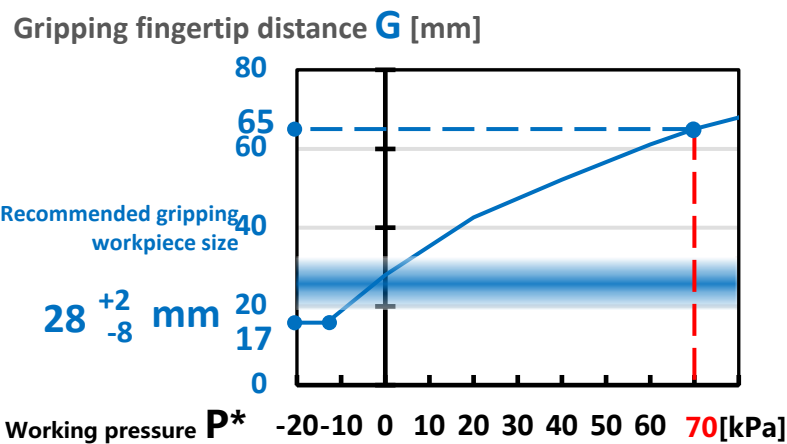
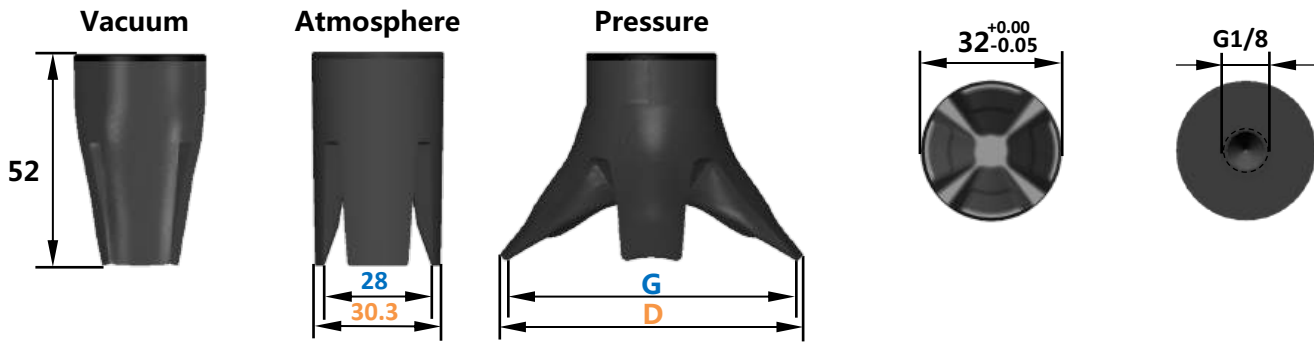


## Product features

- 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.



BM



## Parameter

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

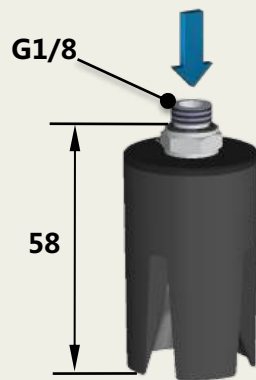
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

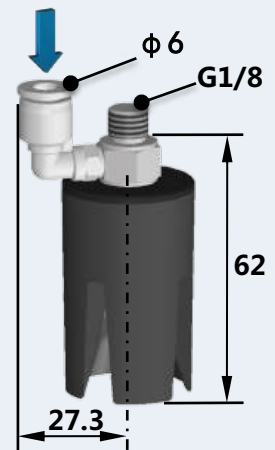
**Straight Fitting**  
Normal Material  
BMC-4B32[P]/S

**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

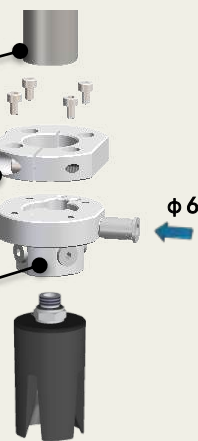


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

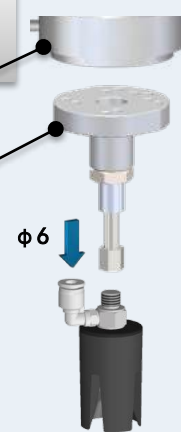
CP-192(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

CM-RG18128G18(optional)

φ6



### Buffer Installation

CM-S01(optional)

φ6

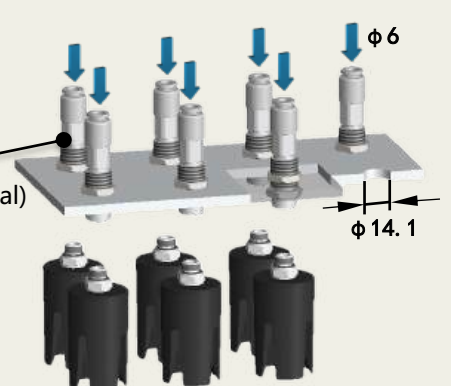


### Matrix Installation

CM-RG1840G18(optional)

φ6

φ14.1



### Precise Positioning Installation

G1/8

2mm

32<sup>+0.05</sup><sub>+0.02</sub>

32<sup>+0.00</sup><sub>-0.05</sub>

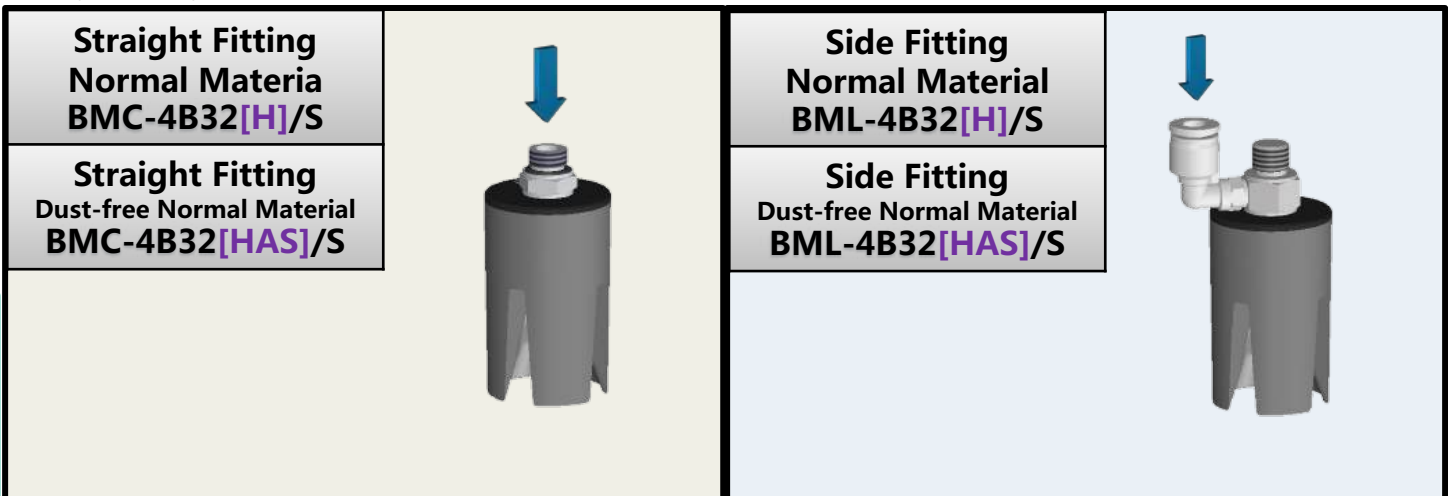


BM

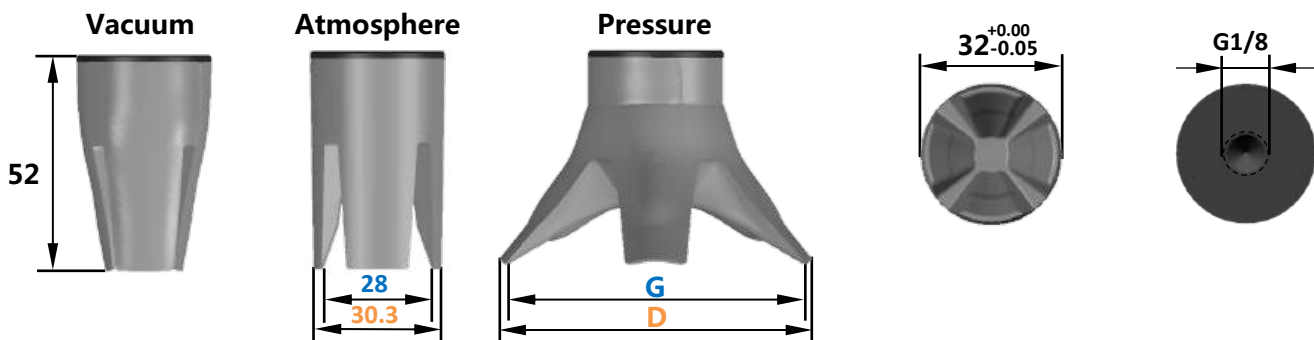


### Product features

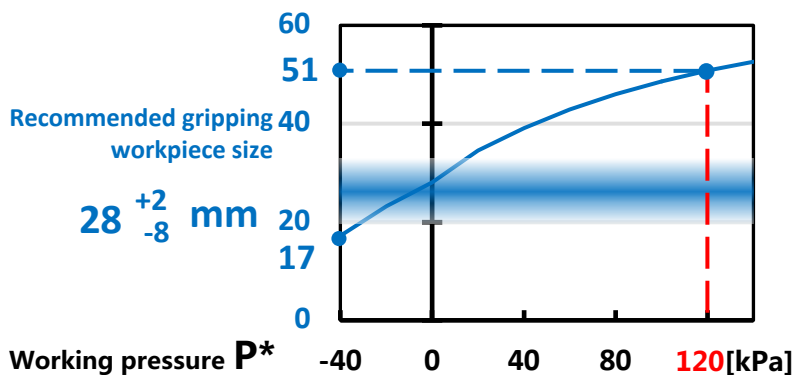
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free 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.



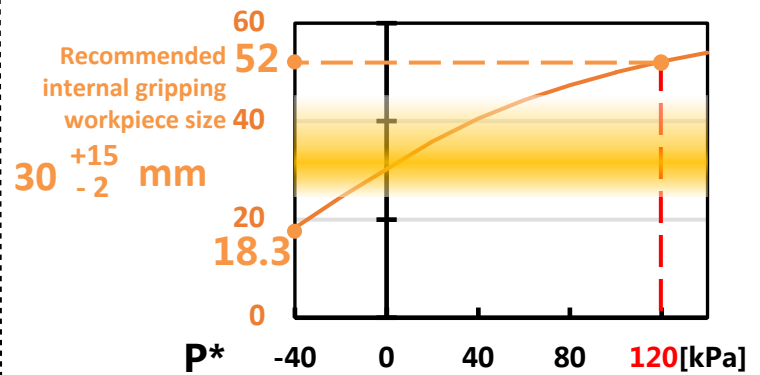
BM



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°C
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.

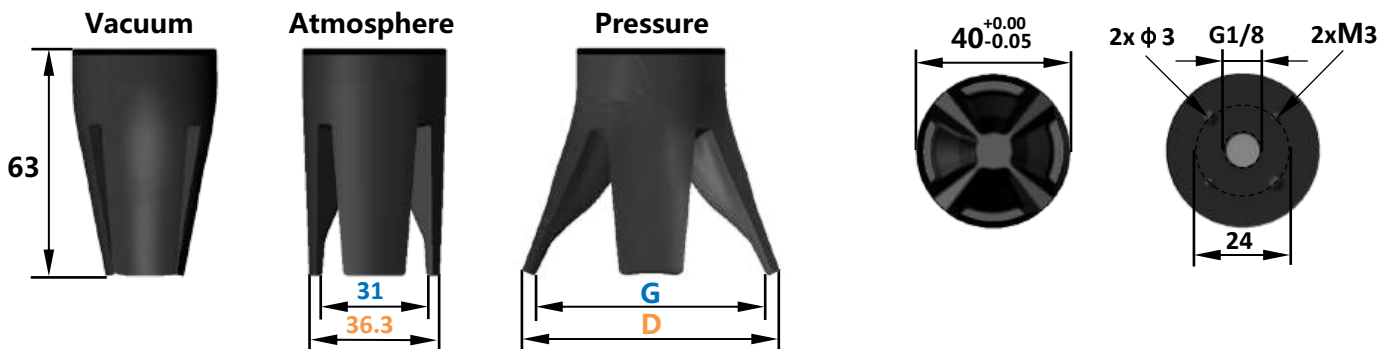
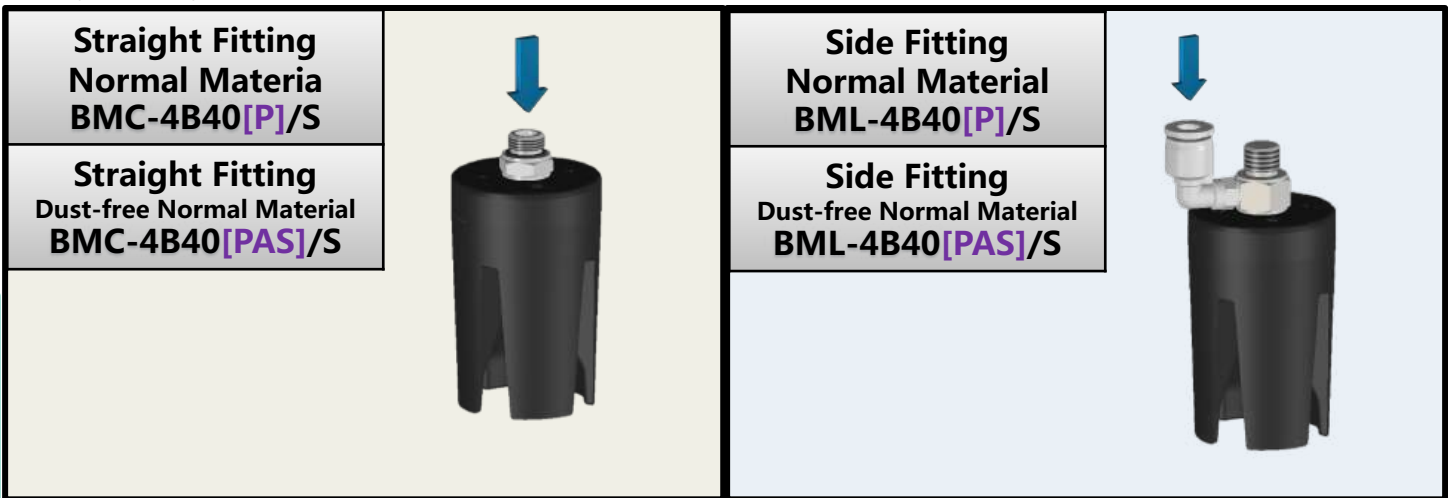




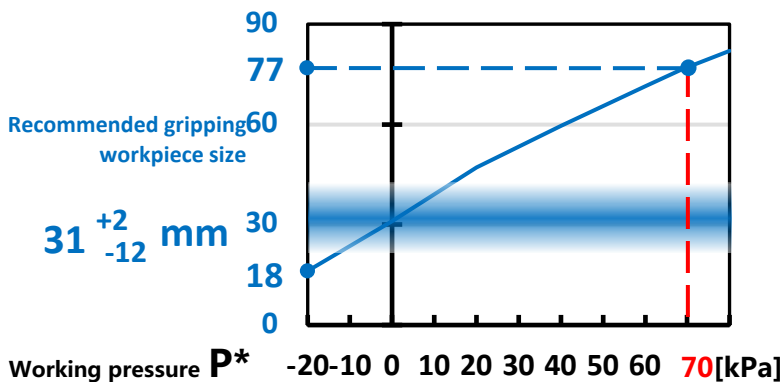


## Product features

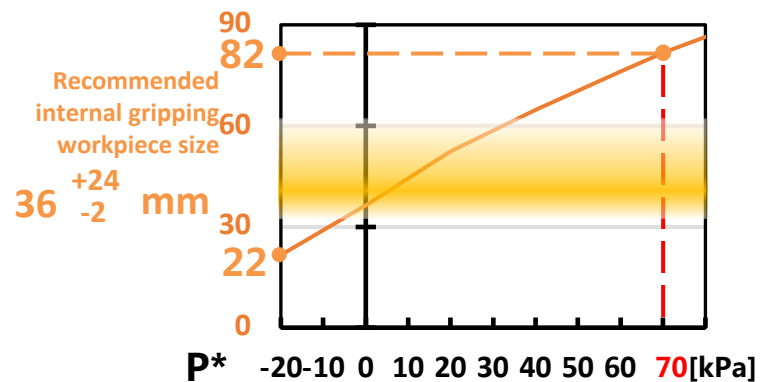
- Fingertip open under pressure and clamped in a vacuum. It is suggested to be used with Rochu control unit. Gripping fingertip distance **G** and internal gripping fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free 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.



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°C
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.



## Installation

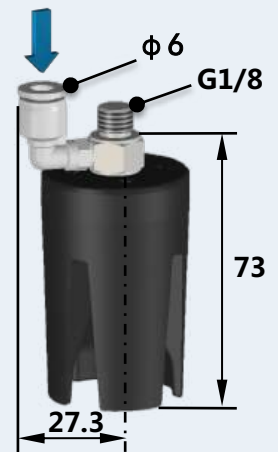
**Straight Fitting**  
Normal Material  
BMC-4B40[P]/S

**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

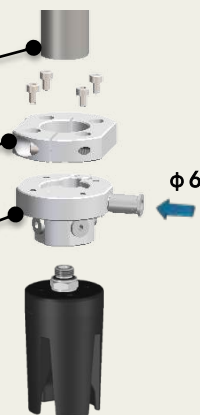


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

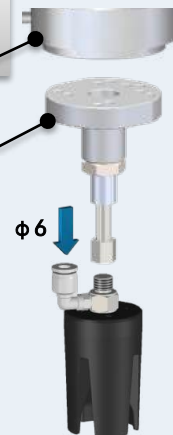
CP-192(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

CM-RG18128G18(optional)

φ6

φ6

### Buffer Installation

CM-S01(optional)

φ6

φ6

φ6

φ6

φ6

φ6

φ6

φ6

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φ6

φ6

φ6

φ6

φ6

### Matrix Installation

CM-RG1840G18(optional)

φ6

φ14.1

### Precise Positioning Installation

4x φ3.2

24

G1/8

2mm

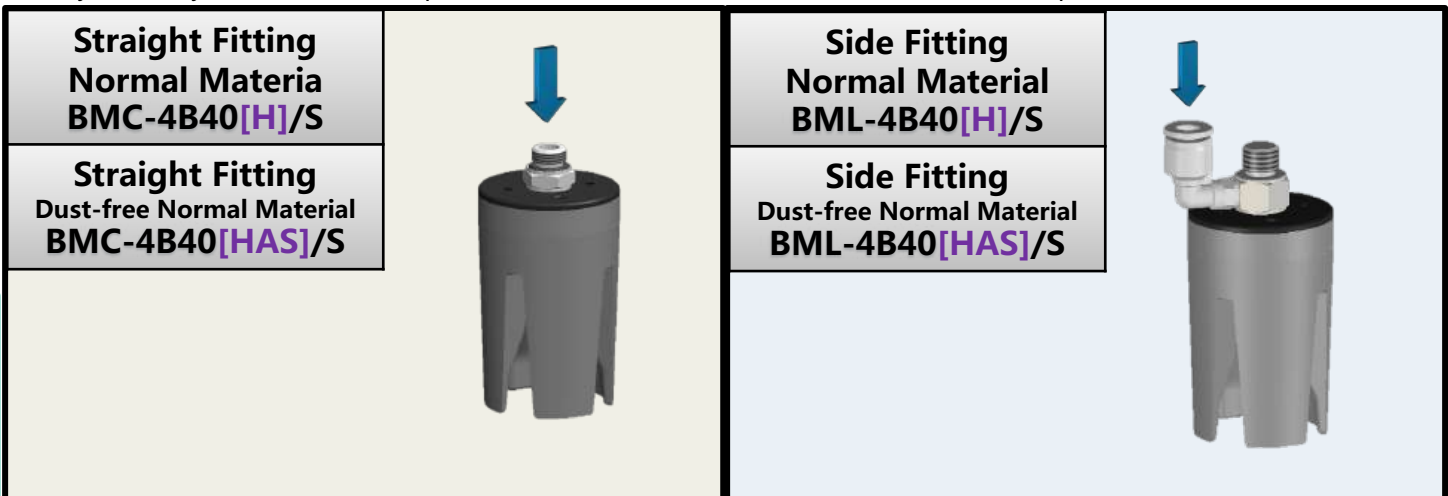
40<sup>+0.05</sup><sub>-0.02</sub>

40<sup>+0.00</sup><sub>-0.05</sub>

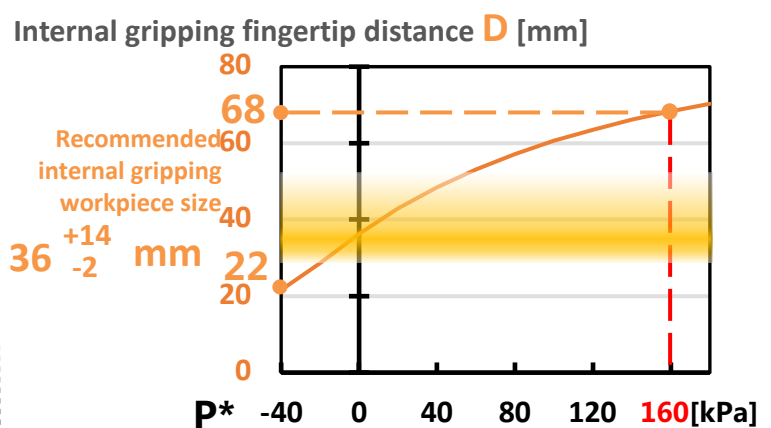
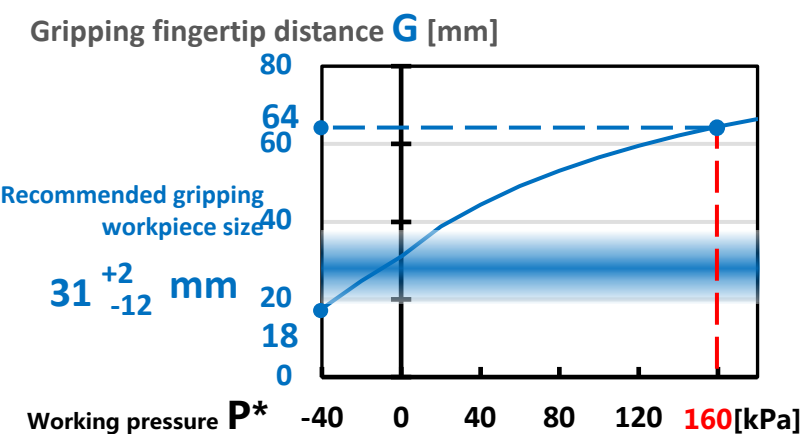
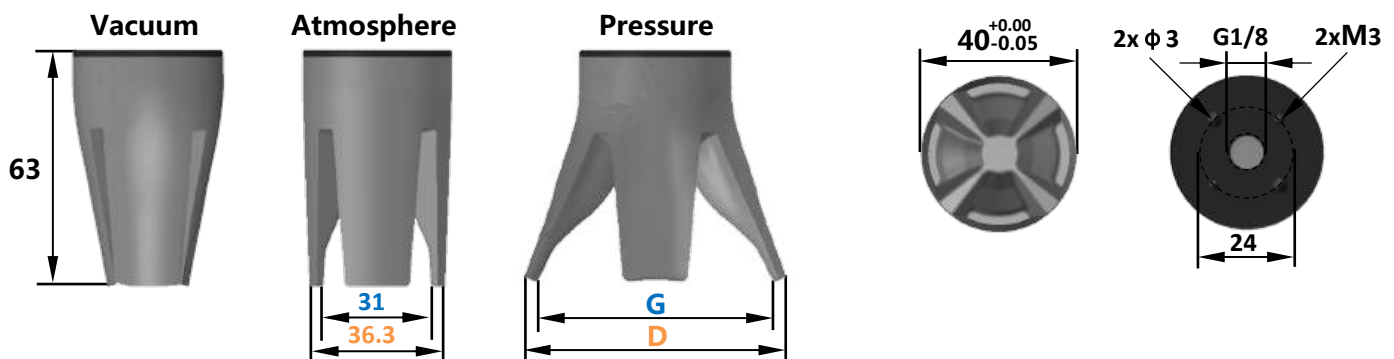


### Product features

- 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



### Parameter

Repetitive Precision	±0.05mm	Recommend-ed Load	300g	Lifetime	1.5 million times*	Safe Pressure	+160kPa ⚠	Contact Temperature	180°C
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.



## Installation

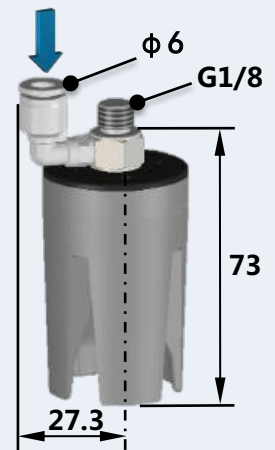
**Straight Fitting**  
Normal Material  
**BMC-4B40[H]/S**

**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**

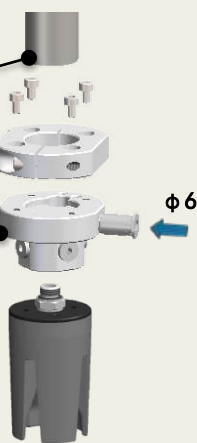


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

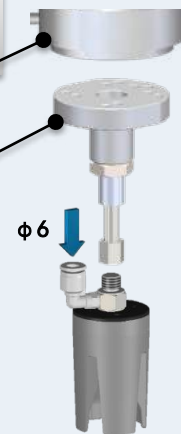
CP-192(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

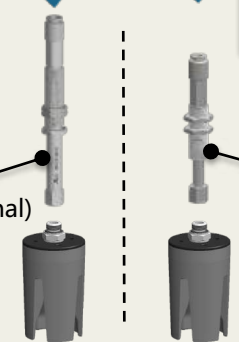
CM-RG18128G18(optional)

φ 6

### Buffer Installation

CM-S01(optional)

φ 6

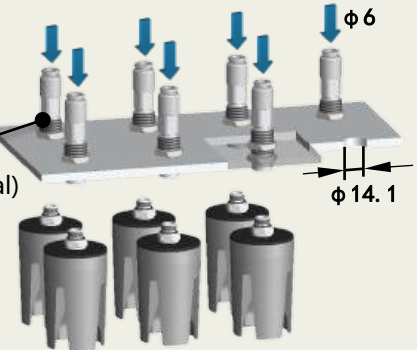


### Matrix Installation

CM-RG1840G18(optional)

φ 6

φ 14.1



### Precise Positioning Installation

4x φ 3.2

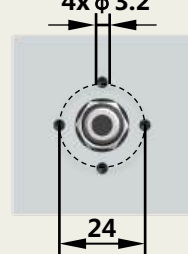
24

G1/8

2mm

40<sup>+0.05</sup><sub>-0.02</sub>

40<sup>+0.00</sup><sub>-0.05</sub>

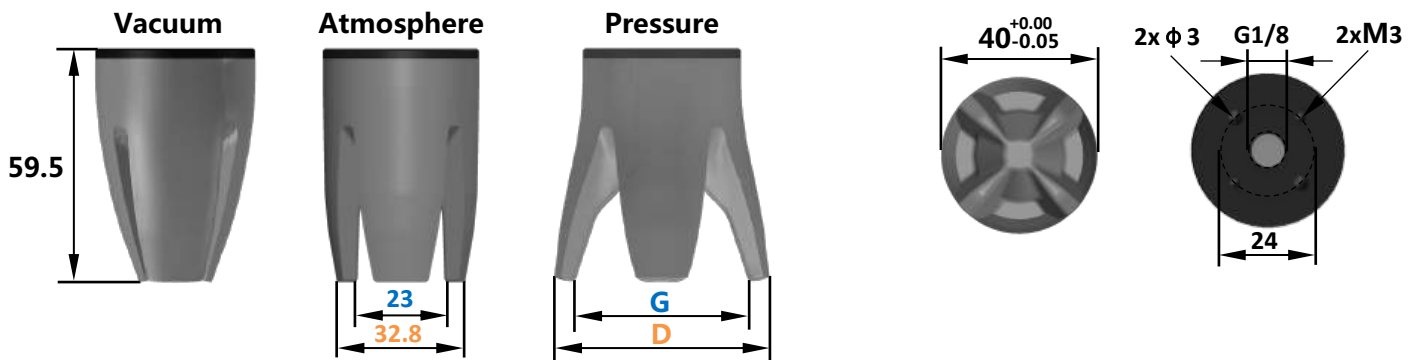
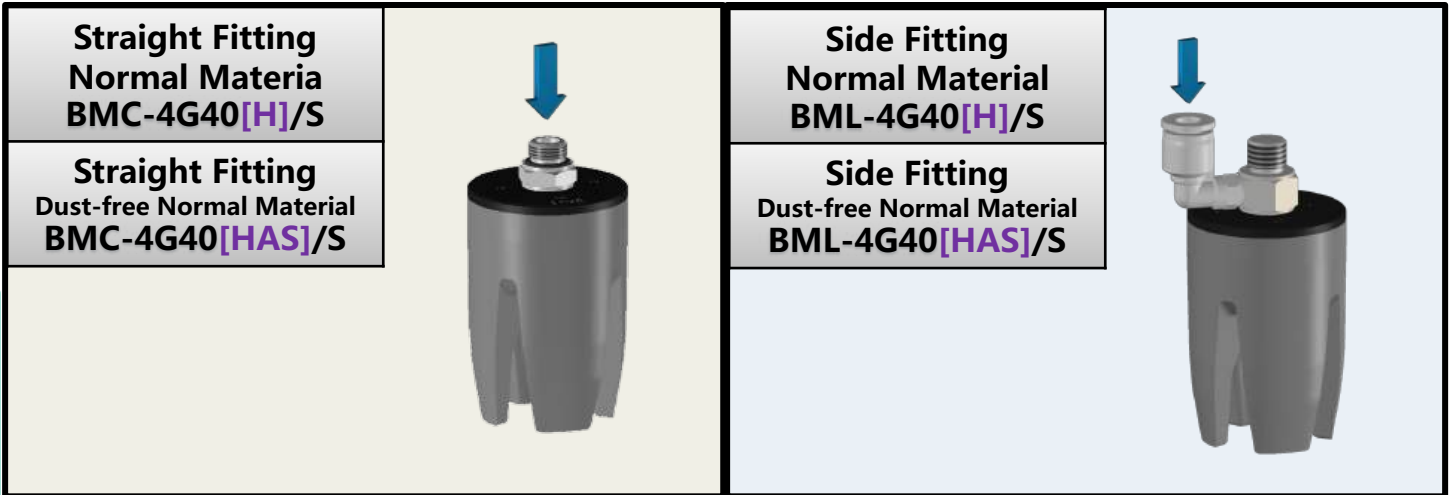




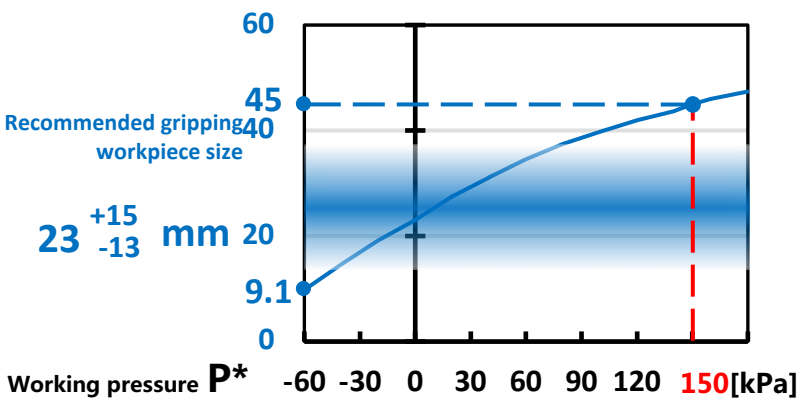


## Product features

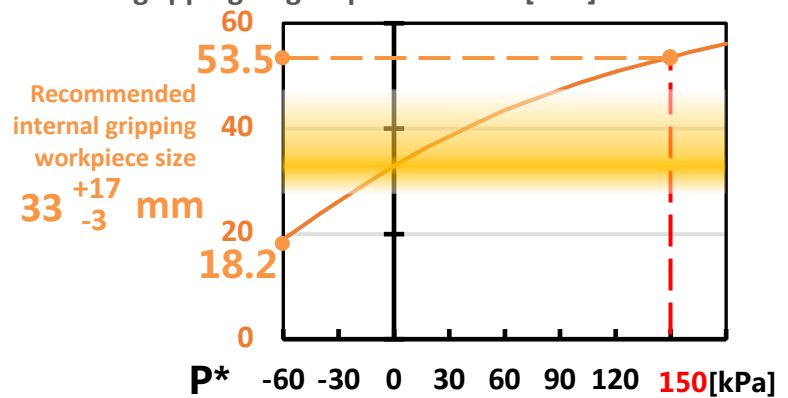
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[H]** and Dust-free Normal 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.



Gripping fingertip distance **G** [mm]



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



## Parameter

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

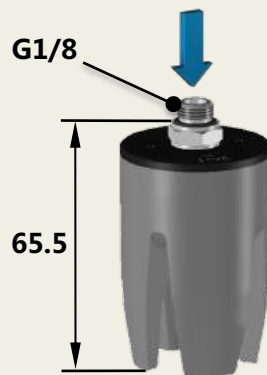
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

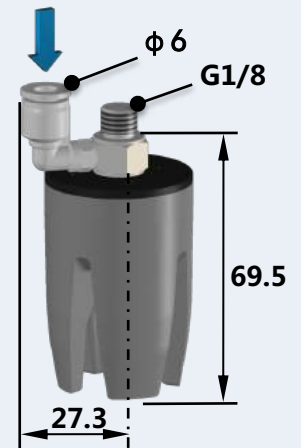
**Straight Fitting**  
Normal Material  
BMC-4G40[H]/S

**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

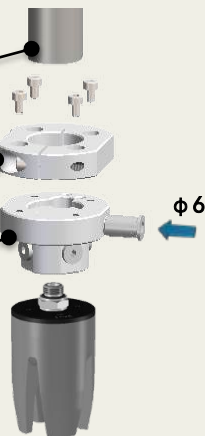


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

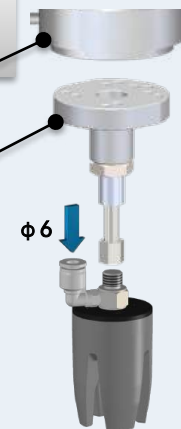
CP-192(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

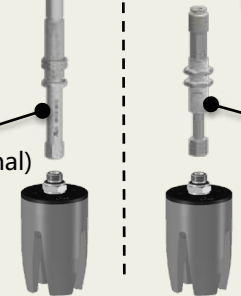
CM-RG18128G18(optional)

φ 6

### Buffer Installation

CM-S01(optional)

φ 6

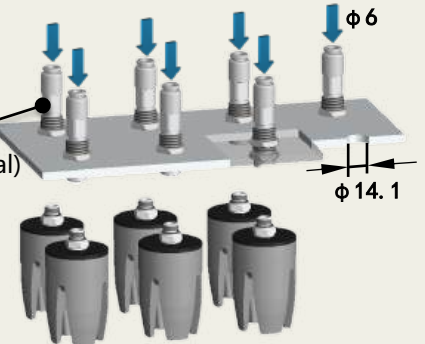


### Matrix Installation

CM-RG1840G18(optional)

φ 6

φ 14.1



### Precise Positioning Installation

4x φ 3.2

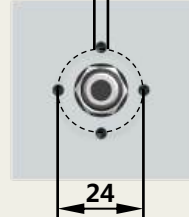
24

G1/8

2mm

40<sup>+0.05</sup><sub>+0.02</sub>

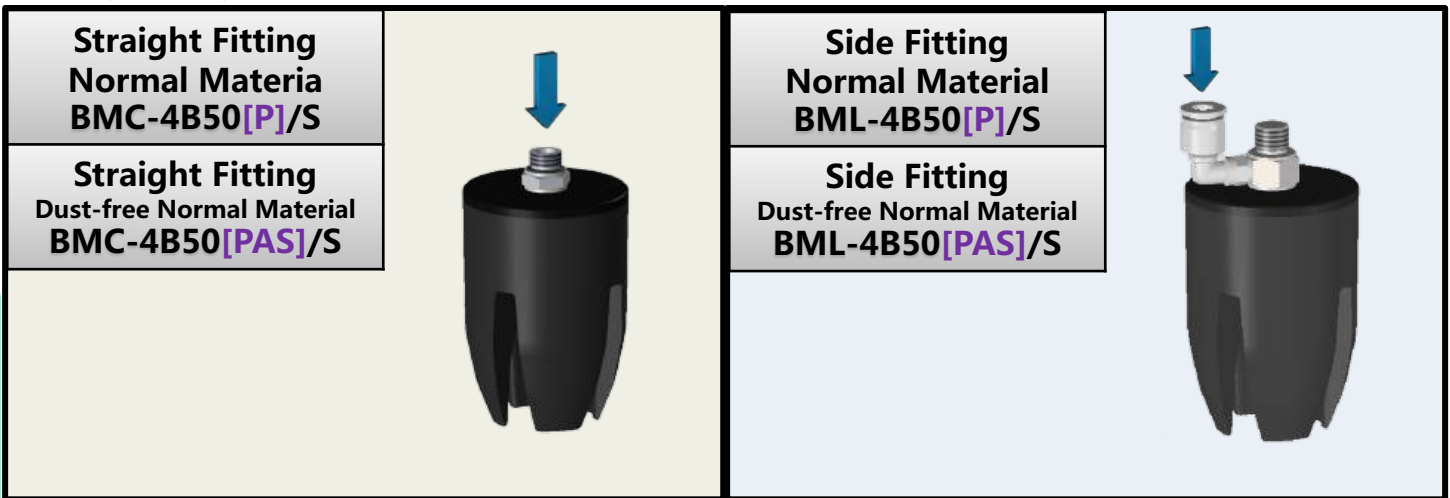
40<sup>+0.00</sup><sub>-0.05</sub>



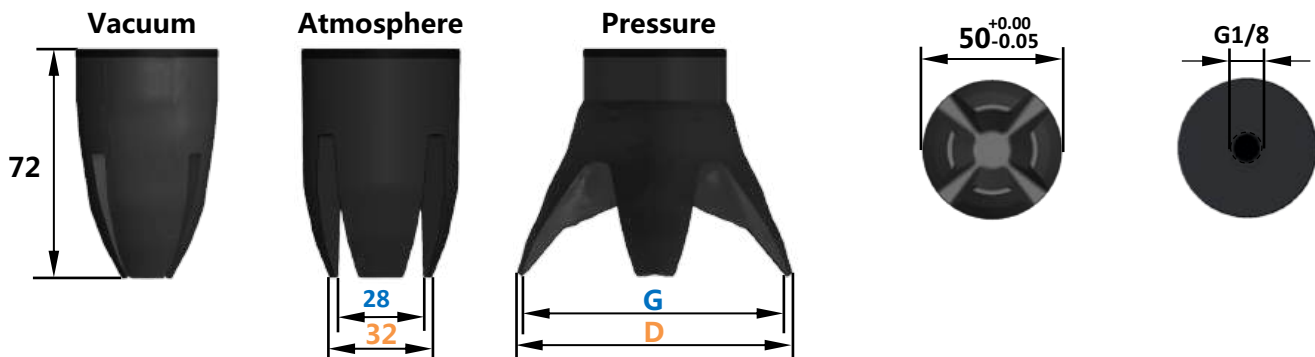


## Product features

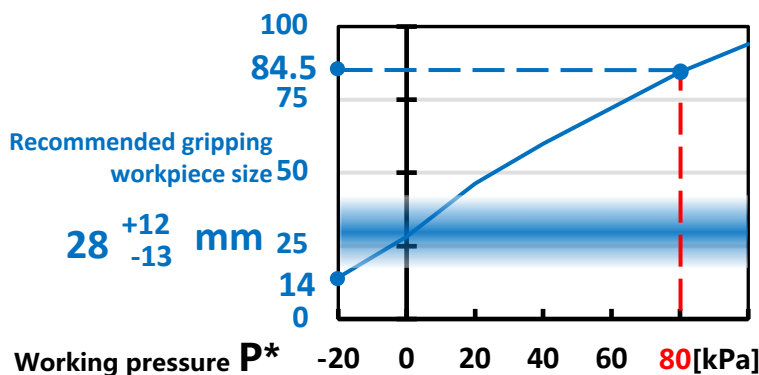
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal 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.



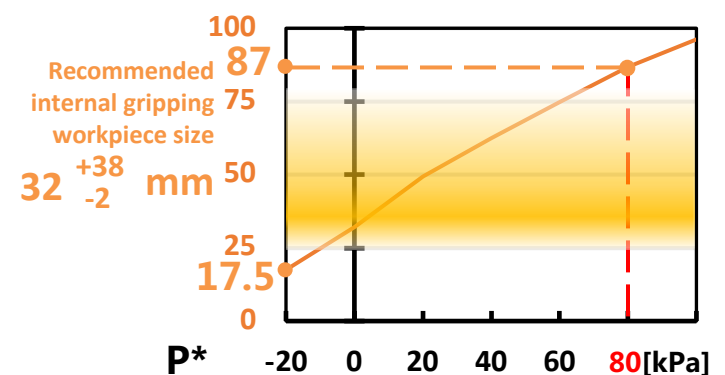
BM



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°C
Frequency	6times/sec	External gripping force	0-5N	Internal gripping force	0-3N	BMC Weight	91g	BML Weight	102g

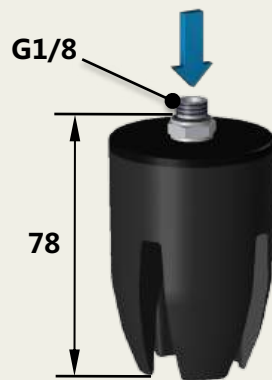
\* : According to the working air pressure in the use scene and the surface roughness of the grabbed object, the lifetime may be affected to varying degrees. It is recommended to use Rochu control Unit. The working air pressure should not exceed the safe working pressure range.



## Installation

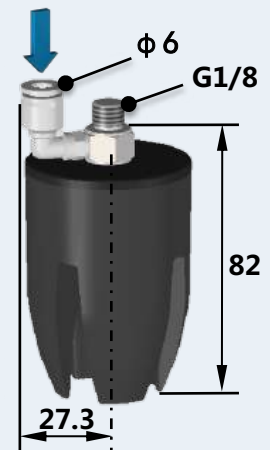
**Straight Fitting**  
Normal Material  
BMC-4B50[P]/S

**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

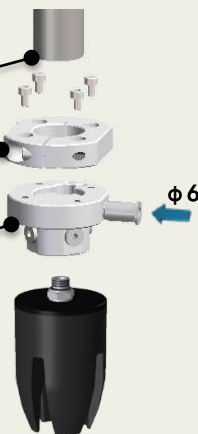


### Scara Robotic Arm Installation

φ20mm Scara Robotic Arm

CP-193(optional)

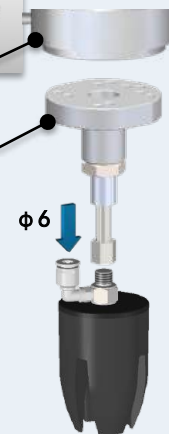
CP-192(optional)



### Robotic Arm Flange Side Fitting Installation

Six Axis Robotic Arm

FCM-S01(optional)



### Rigid Connection Installation

CM-RG18128G18(optional)



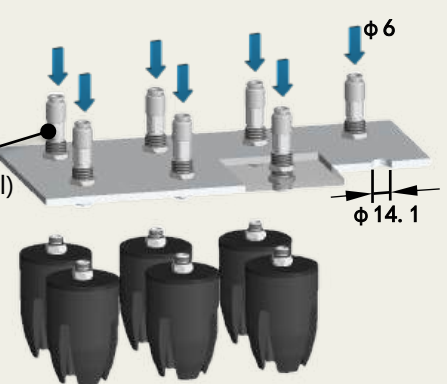
### Buffer Installation

CM-S01(optional)



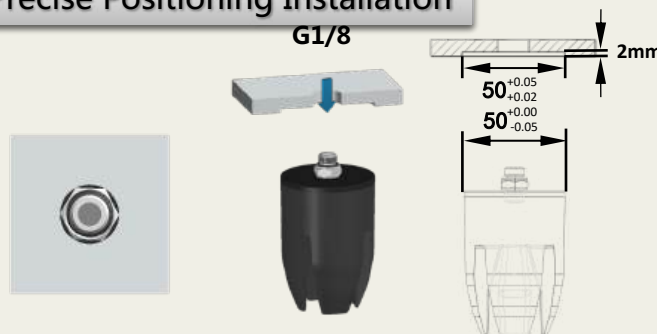
### Matrix Installation

CM-RG1840G18(optional)



### Precise Positioning Installation

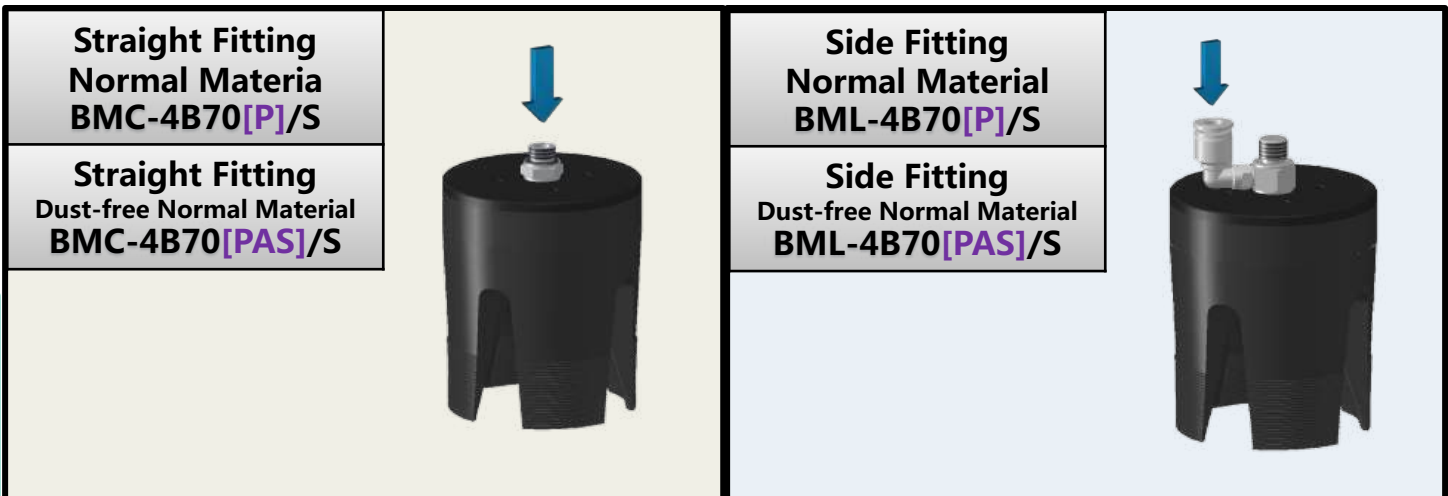
G1/8



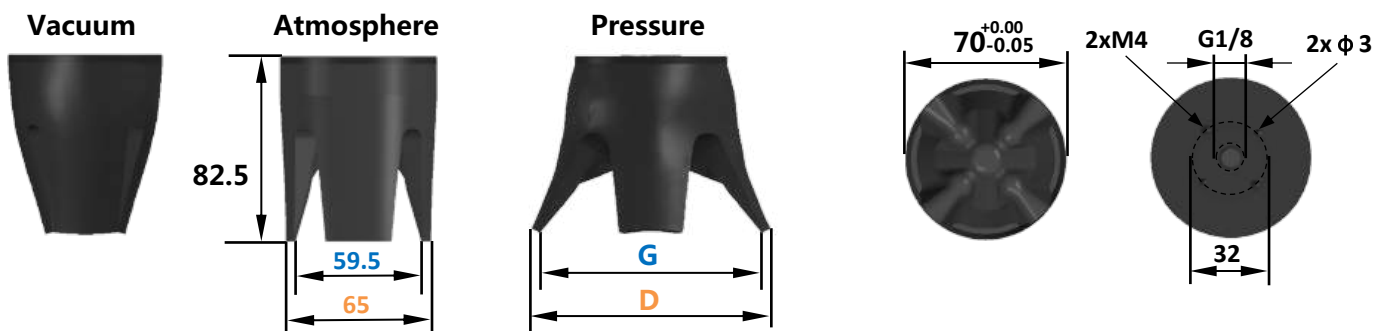


## Product features

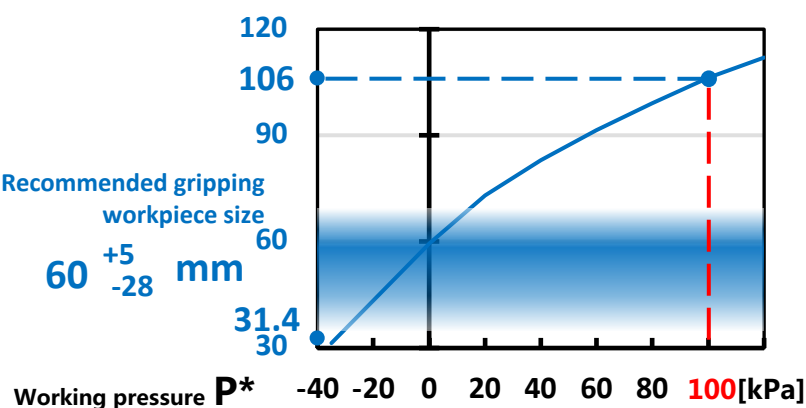
- Finger opens in pressure state, grasps in vacuum state. It is recommended to use with Rochu control unit, gripping fingertip distance **G** and outer support fingertip distance **D** can be adjusted by working pressure.
- Soft beak material is divided into Normal Material **[P]** and Dust-free Normal 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.



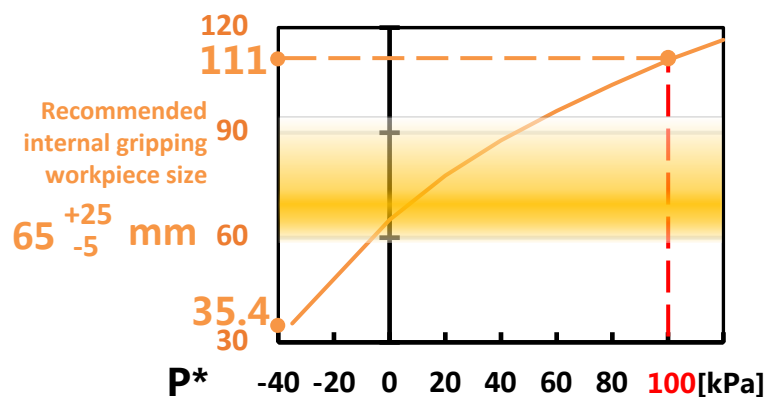
BM



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°C
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.

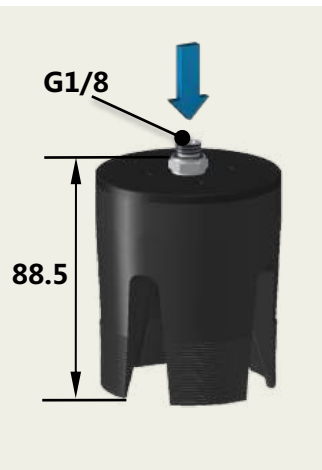




## Installation

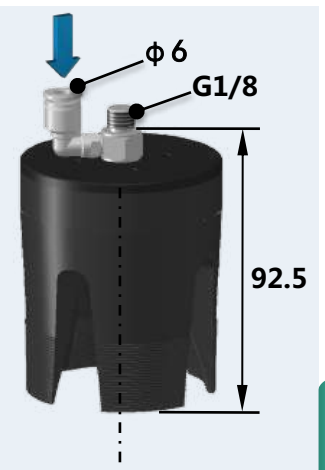
**Straight Fitting**  
Normal Material  
BMC-4B70[P]/S

**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

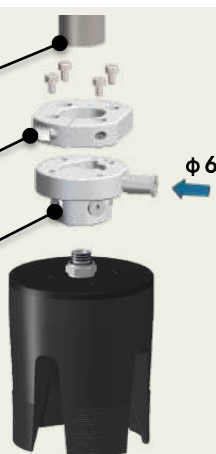


**Scara Robotic Arm Installation**

φ20mm Scara Robotic Arm

CP-193(optional)

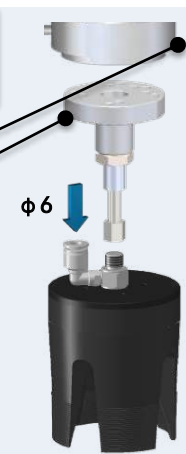
CP-192(optional)



**Robotic Arm Flange Side Fitting Installation**

Six Axis Robotic Arm

FCM-S01(optional)

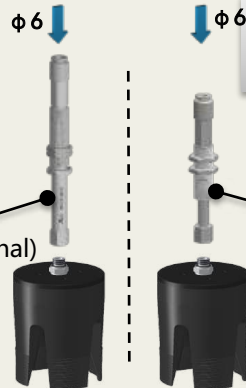


**Rigid Connection Installation**

CM-RG18128G18(optional)

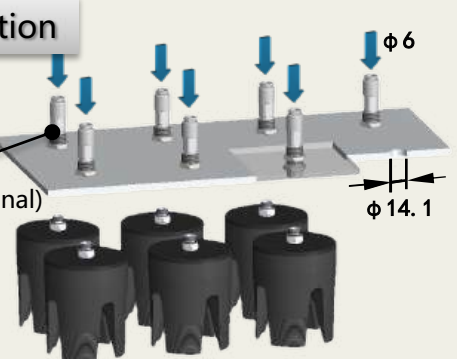
**Buffer Installation**

CM-S01(optional)

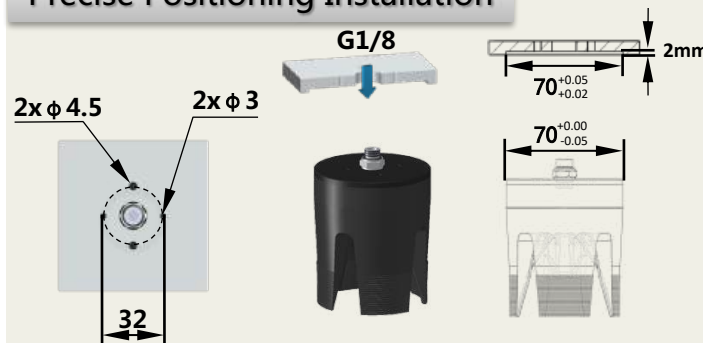


**Matrix Installation**

CM-RG1840G18(optional)



**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/LS8	FM-A4V2/LS8	FM-A4V3/LS8	FM-A4V4/LS8	FM-A4V5/LS8	F-A4T/LS8
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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
 page. 166	 page. 167	 page. 168	 page. 169	 page. 170	 page. 171
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
<b>FM-A5V1/FS3</b>	<b>FM-A5V2/FS3</b>	<b>FM-A5V3/FS3</b>	<b>FM-A5V4/FS3</b>	<b>FM-A5V5/FS3</b>	<b>F-A5T/FS3</b>
 page. 184	 page. 185	 page. 186	 page. 187	 page. 188	 page. 189
<b>FM-A5V1/LF1</b>	<b>FM-A5V2/LF1</b>	<b>FM-A5V3/LF1</b>	<b>FM-A5V4/LF1</b>	<b>FM-A5V5/LF1</b>	<b>F-A5T/LF1</b>
 page. 190	 page. 191	 page. 192	 page. 193	 page. 194	 page. 195
<b>FM-A6V1/LS1</b>	<b>FM-A6V2/LS1</b>	<b>FM-A6V3/LS1</b>	<b>FM-A6V4/LS1</b>	<b>FM-A6V5/LS1</b>	<b>F-A6T/LS1</b>
 page. 196	 page. 197	 page. 198	 page. 199	 page. 200	 page. 201
<b>FM-A6V1/LS8</b>	<b>FM-A6V2/LS8</b>	<b>FM-A6V3/LS8</b>	<b>FM-A6V4/LS8</b>	<b>FM-A6V5/LS8</b>	<b>F-A6T/LS8</b>
 page. 202	 page. 203	 page. 204	 page. 205	 page. 206	 page. 207
<b>FM-A6V1/FS3</b>	<b>FM-A6V2/FS3</b>	<b>FM-A6V3/FS3</b>	<b>FM-A6V4/FS3</b>	<b>FM-A6V5/FS3</b>	<b>F-A6T/FS3</b>
 page. 208	 page. 209	 page. 210	 page. 211	 page. 212	 page. 213
<b>FM-A6V1/LF1</b>	<b>FM-A6V2/LF1</b>	<b>FM-A6V3/LF1</b>	<b>FM-A6V4/LF1</b>	<b>FM-A6V5/LF1</b>	<b>F-A6T/LF1</b>
 page. 214	 page. 215	 page. 216	 page. 217	 page. 218	 page. 219
<b>FM-A7V1/LS1</b>	<b>FM-A7V2/LS1</b>	<b>FM-A7V3/LS1</b>	<b>FM-A7V4/LS1</b>	<b>FM-A7V5/LS1</b>	<b>F-A7T/LS1</b>
 page. 220	 page. 221	 page. 222	 page. 223	 page. 224	 page. 225
<b>FM-A7V1/LS8</b>	<b>FM-A7V2/LS8</b>	<b>FM-A7V3/LS8</b>	<b>FM-A7V4/LS8</b>	<b>FM-A7V5/LS8</b>	<b>F-A7T/LS8</b>
 page. 226	 page. 227	 page. 228	 page. 229	 page. 230	 page. 231
<b>FM-A7V1/FS3</b>	<b>FM-A7V2/FS3</b>	<b>FM-A7V3/FS3</b>	<b>FM-A7V4/FS3</b>	<b>FM-A7V5/FS3</b>	<b>F-A7T/FS3</b>


















































 <i>page. 232</i>	 <i>page. 233</i>	 <i>page. 234</i>	 <i>page. 235</i>	 <i>page. 236</i>	 <i>page. 237</i>
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
<b>FM-B3V1/LS1</b>	<b>FM-B3V2/LS1</b>	<b>FM-B3V3/LS1</b>	<b>FM-B3V4/LS1</b>	<b>FM-B3V5/LS1</b>	<b>F-B3T/LS1</b>
 page. 244	 page. 245	 page. 246	 page. 247	 page. 248	 page. 249
<b>FM-B3V1/LF1</b>	<b>FM-B3V2/LF1</b>	<b>FM-B3V3/LF1</b>	<b>FM-B3V4/LF1</b>	<b>FM-B3V5/LF1</b>	<b>F-B3T/LF1</b>
 page. 250	 page. 251	 page. 252	 page. 253	 page. 254	 page. 255
<b>FM-B4V1/LS1</b>	<b>FM-B4V2/LS1</b>	<b>FM-B4V3/LS1</b>	<b>FM-B4V4/LS1</b>	<b>FM-B4V5/LS1</b>	<b>F-B4T/LS1</b>
 page. 256	 page. 257	 page. 258	 page. 259	 page. 260	 page. 261
<b>FM-B4V1/LS8</b>	<b>FM-B4V2/LS8</b>	<b>FM-B4V3/LS8</b>	<b>FM-B4V4/LS8</b>	<b>FM-B4V5/LS8</b>	<b>F-B4T/LS8</b>
 page. 262	 page. 263	 page. 264	 page. 265	 page. 266	 page. 267
<b>FM-B4V1/FS3</b>	<b>FM-B4V2/FS3</b>	<b>FM-B4V3/FS3</b>	<b>FM-B4V4/FS3</b>	<b>FM-B4V5/FS3</b>	<b>F-B4T/FS3</b>
 page. 268	 page. 269	 page. 270	 page. 271	 page. 272	 page. 273
<b>FM-B4V1/LF1</b>	<b>FM-B4V2/LF1</b>	<b>FM-B4V3/LF1</b>	<b>FM-B4V4/LF1</b>	<b>FM-B4V5/LF1</b>	<b>F-B4T/LF1</b>
 page. 274	 page. 275	 page. 276	 page. 277	 page. 278	 page. 279
<b>FM-B4V1/NS</b>	<b>FM-B4V2/NS</b>	<b>FM-B4V3/NS</b>	<b>FM-B4V4/NS</b>	<b>FM-B4V5/NS</b>	<b>F-B4T/NS</b>
 page. 280	 page. 281	 page. 282	 page. 283	 page. 284	 page. 285
<b>FM-B5V1/LS1</b>	<b>FM-B5V2/LS1</b>	<b>FM-B5V3/LS1</b>	<b>FM-B5V4/LS1</b>	<b>FM-B5V5/LS1</b>	<b>F-B5T/LS1</b>
 page. 286	 page. 287	 page. 288	 page. 289	 page. 290	 page. 291
<b>FM-B5V1/FS3</b>	<b>FM-B5V2/FS3</b>	<b>FM-B5V3/FS3</b>	<b>FM-B5V4/FS3</b>	<b>FM-B5V5/FS3</b>	<b>F-B5T/FS3</b>



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



 page. 340	 page. 341	 page. 342	 page. 343	 page. 344	 page. 345
<b>FM-C3V1/LS1</b>	<b>FM-C3V2/LS1</b>	<b>FM-C3V3/LS1</b>	<b>FM-C3V4/LS1</b>	<b>FM-C3V5/LS1</b>	<b>F-C3T/LS1</b>
 page. 346	 page. 347	 page. 348	 page. 349	 page. 350	 page. 351
<b>FM-C3V1/NS</b>	<b>FM-C3V2/NS</b>	<b>FM-C3V3/NS</b>	<b>FM-C3V4/NS</b>	<b>FM-C3V5/NS</b>	<b>F-C3T/NS</b>
 page. 352	 page. 353	 page. 354	 page. 355	 page. 356	 page. 357
<b>FM-C4V1/LS1</b>	<b>FM-C4V2/LS1</b>	<b>FM-C4V3/LS1</b>	<b>FM-C4V4/LS1</b>	<b>FM-C4V5/LS1</b>	<b>F-C4T/LS1</b>
 page. 358	 page. 359	 page. 360	 page. 361	 page. 362	 page. 363
<b>FM-C4V1/LS8</b>	<b>FM-C4V2/LS8</b>	<b>FM-C4V3/LS8</b>	<b>FM-C4V4/LS8</b>	<b>FM-C4V5/LS8</b>	<b>F-C4T/LS8</b>
 page. 364	 page. 365	 page. 366	 page. 367	 page. 368	 page. 369
<b>FM-C4V1/LS8</b>	<b>FM-C4V2/LS8</b>	<b>FM-C4V3/LS8</b>	<b>FM-C4V4/LS8</b>	<b>FM-C4V5/LS8</b>	<b>F-C4T/LS8</b>
 page. 370	 page. 371	 page. 372	 page. 373	 page. 374	 page. 375
<b>FM-C4V1/LF1</b>	<b>FM-C4V2/LF1</b>	<b>FM-C4V3/LF1</b>	<b>FM-C4V4/LF1</b>	<b>FM-C4V5/LF1</b>	<b>F-C4T/LF1</b>
 page. 376	 page. 377	 page. 378	 page. 379	 page. 380	 page. 381
<b>FM-C4V1/V15</b>	<b>FM-C4V2/V15</b>	<b>FM-C4V3/V15</b>	<b>FM-C4V4/V15</b>	<b>FM-C4V5/V15</b>	<b>F-C4T/V15</b>
 page. 382	 page. 383	 page. 384	 page. 385	 page. 386	 page. 387
<b>FM-C5V1/LS1</b>	<b>FM-C5V2/LS1</b>	<b>FM-C5V3/LS1</b>	<b>FM-C5V4/LS1</b>	<b>FM-C5V5/LS1</b>	<b>F-C5T/LS1</b>
 page. 388	 page. 389	 page. 390	 page. 391	 page. 392	 page. 393
<b>FM-C5V1/LS8</b>	<b>FM-C5V2/LS8</b>	<b>FM-C5V3/LS8</b>	<b>FM-C5V4/LS8</b>	<b>FM-C5V5/LS8</b>	<b>F-C5T/LS8</b>
 page. 388	 page. 389	 page. 390	 page. 391	 page. 392	 page. 393
<b>FM-C5V1/FS3</b>	<b>FM-C5V2/FS3</b>	<b>FM-C5V3/FS3</b>	<b>FM-C5V4/FS3</b>	<b>FM-C5V5/FS3</b>	<b>F-C5T/FS3</b>

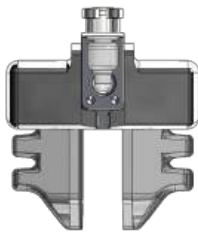


 page. 394	 page. 395	 page. 396	 page. 397	 page. 398	 page. 399
<b>FM-C5V1/LF1</b>	<b>FM-C5V2/LF1</b>	<b>FM-C5V3/LF1</b>	<b>FM-C5V4/LF1</b>	<b>FM-C5V5/LF1</b>	<b>F-C5T/LF1</b>
 page. 400	 page. 401	 page. 402	 page. 403	 page. 404	 page. 405
<b>FM-C6V1/LS1</b>	<b>FM-C6V2/LS1</b>	<b>FM-C6V3/LS1</b>	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







## FM -A3V1 / LS1

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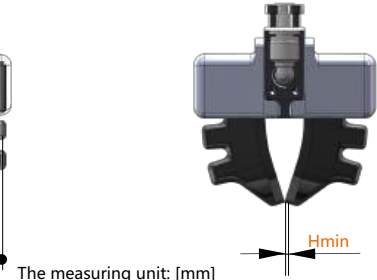
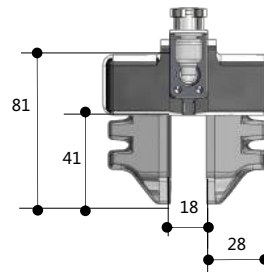
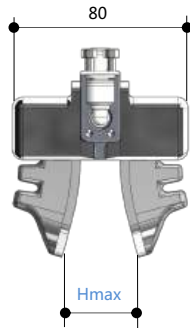
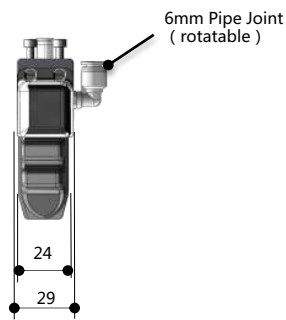


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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

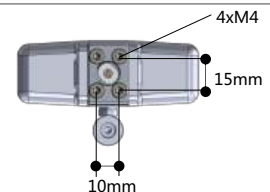
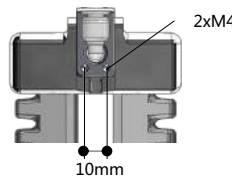
**!** Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

**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]

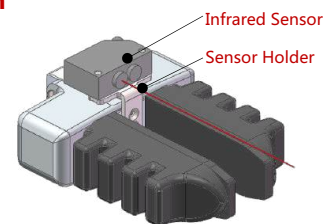
### Fixation



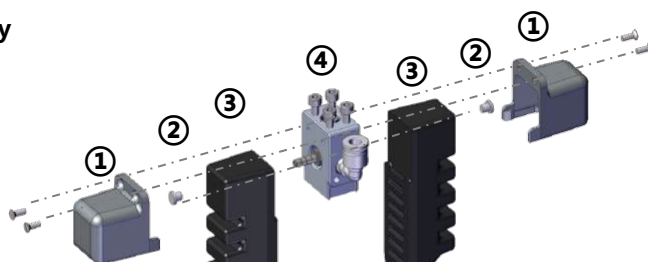
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A3V2 / LS1

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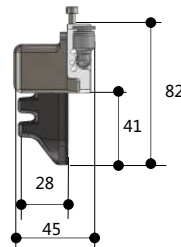
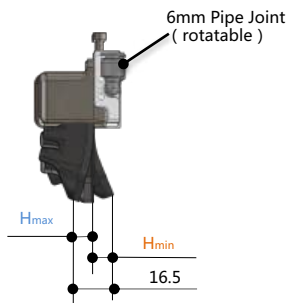
Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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	 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.

**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



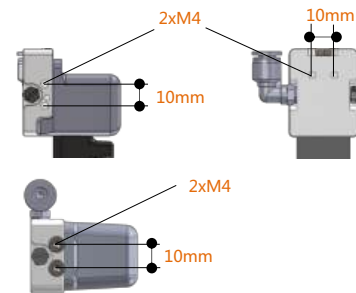
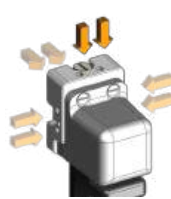
The measuring unit: [mm]



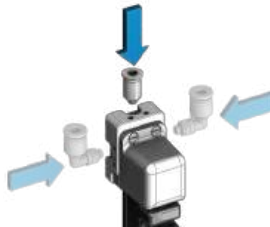
### Pose Adjustment



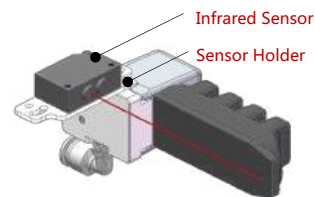
### Fixation



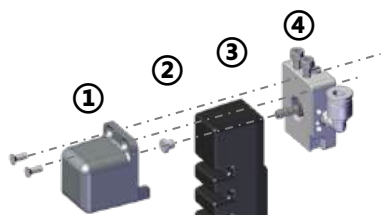
### Air Intake



### Sensor Installation



### Assembly



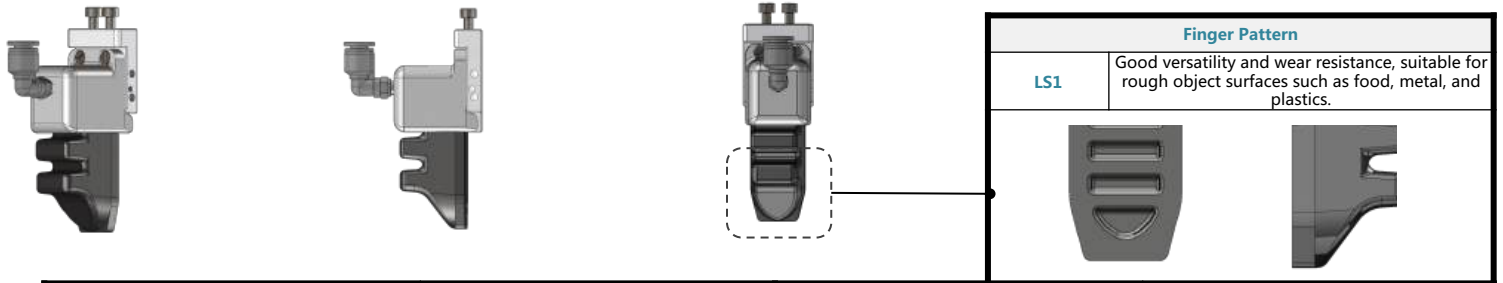
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A3V3 / LS1

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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		

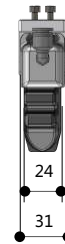
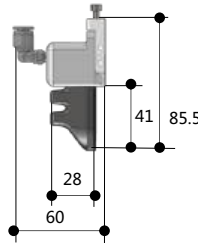
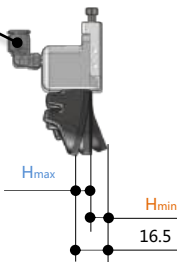


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

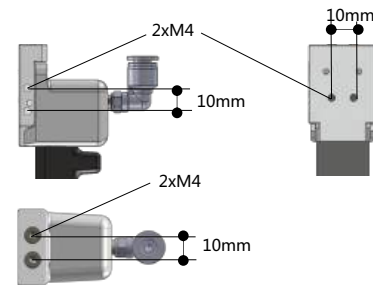


The measuring unit: [mm]

### Pose Adjustment



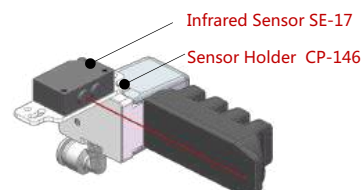
### Fixation



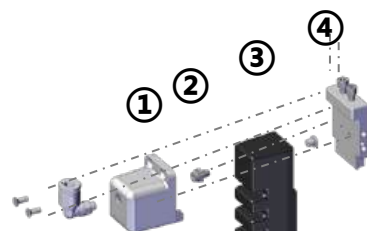
### Air Intake



### Sensor Installation



### Assembly



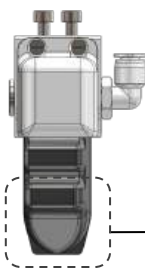
Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A3V4 / LS1

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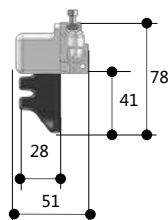
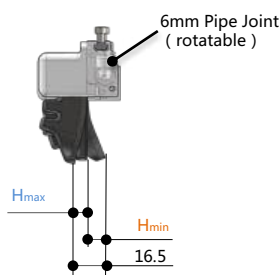


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.
	

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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

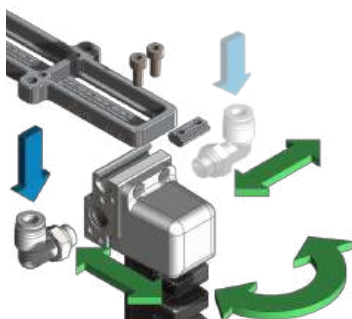
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

⚠ 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.

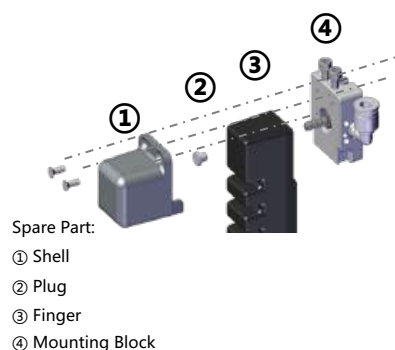


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

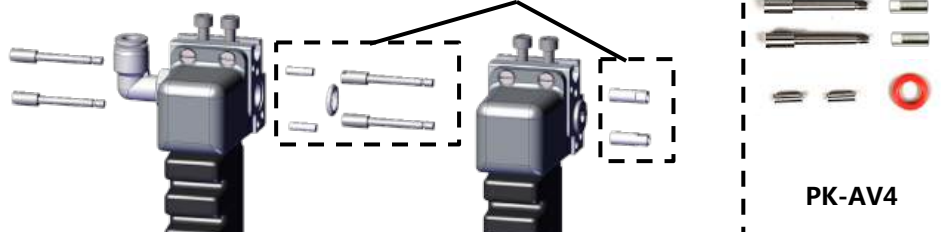


### Series combination:

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 -A3V5 / 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-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

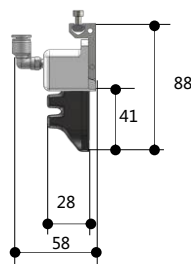
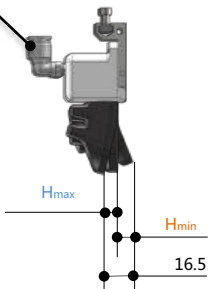


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

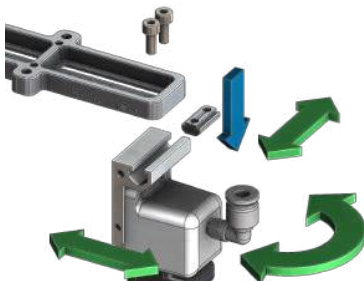
6mm Pipe Joint  
( rotatable )



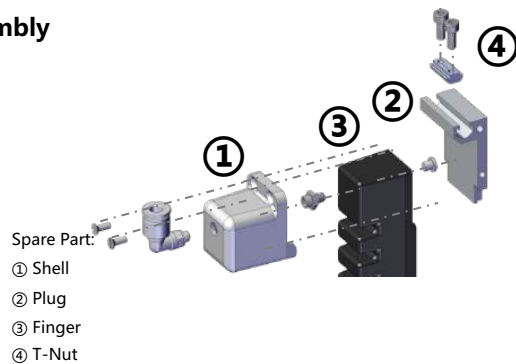
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



### Assembly

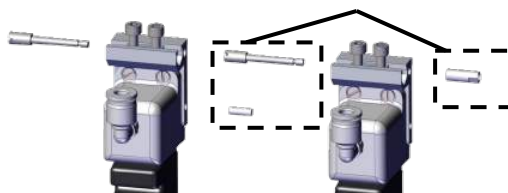


### Series combination:

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)

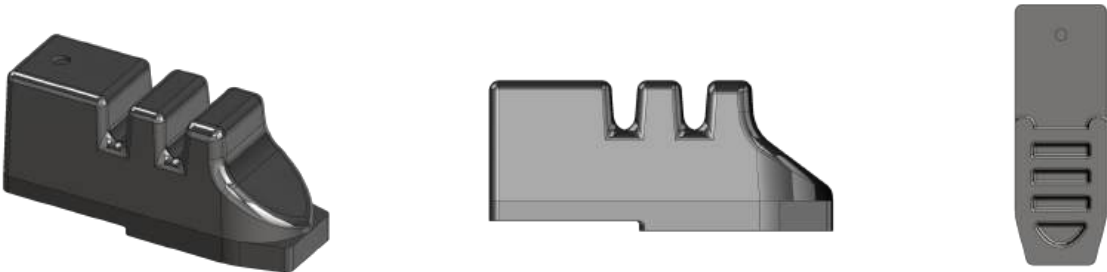




Scan to watch videos

F -A3T / LS1

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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	



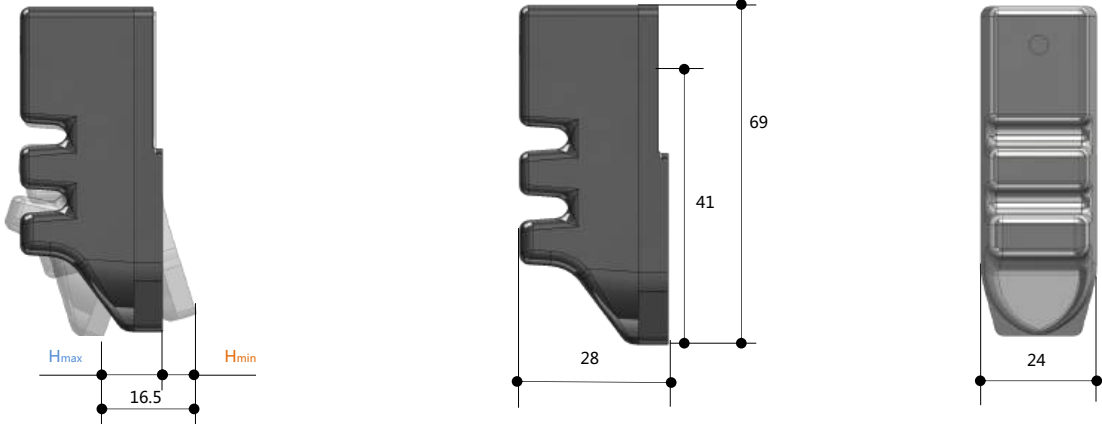
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

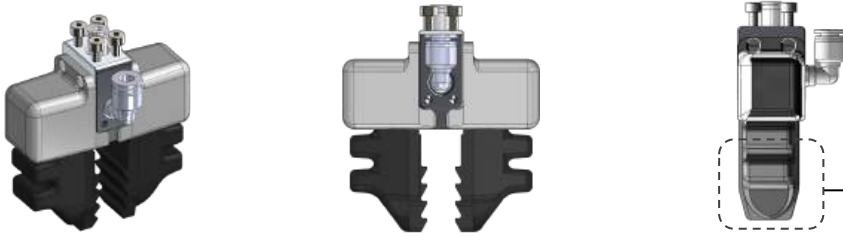










## FM -A3V1 / LS8

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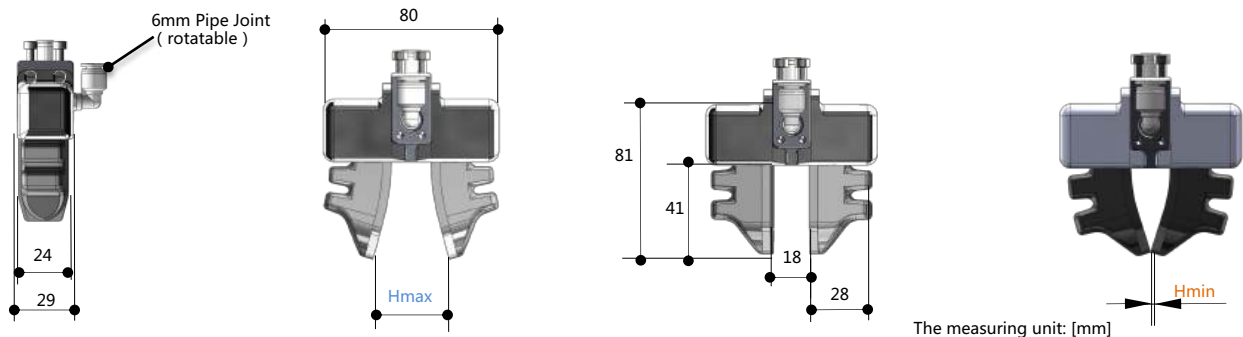


Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

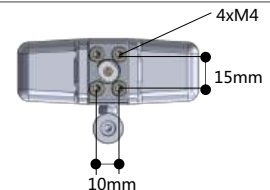
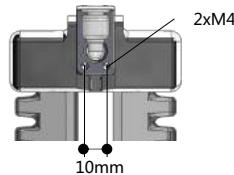
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A3V1 / I S8[P]			FM-			FM-A3V1 / I S8[H]			FM-A3V1 / I S8[HAS]		
Finger color: Black						Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]		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.

**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.



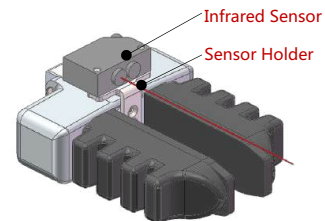
### Fixation



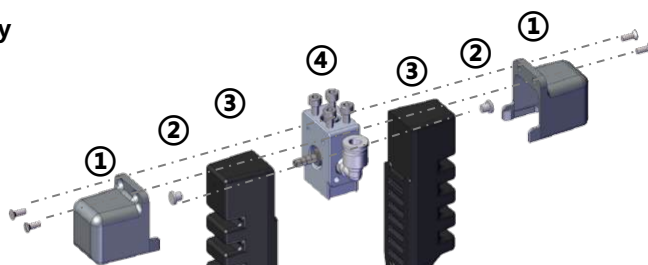
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A3V2 / LS8

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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

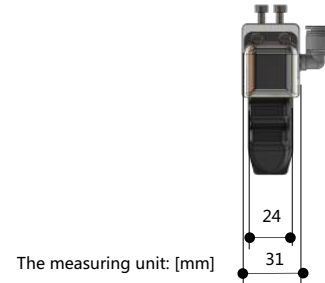
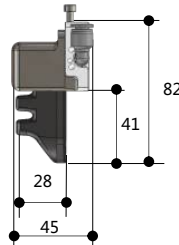
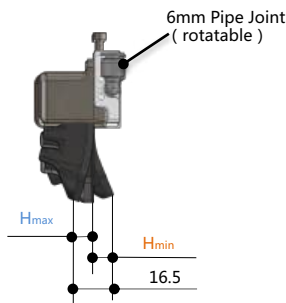


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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

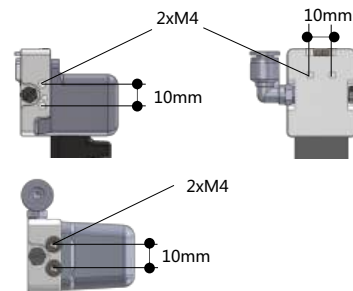
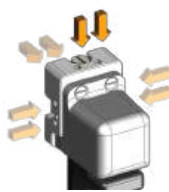


The measuring unit: [mm]

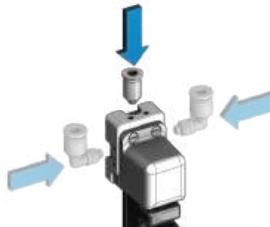
### Pose Adjustment



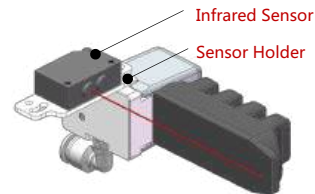
### Fixation



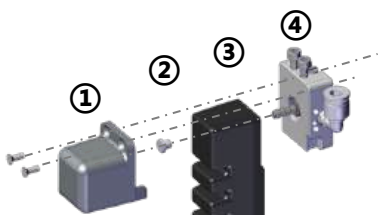
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A3V3 / LS8


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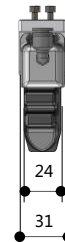
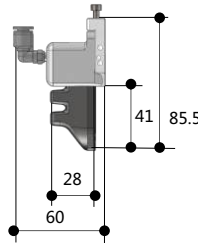
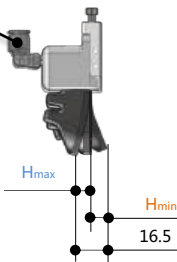
Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.
	

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.

6mm Pipe Joint  
( rotatable )

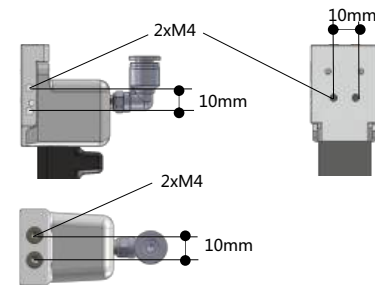


The measuring unit: [mm]

### Pose Adjustment



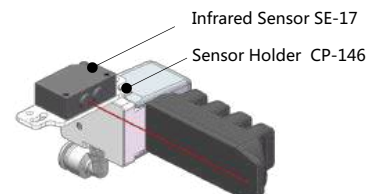
### Fixation



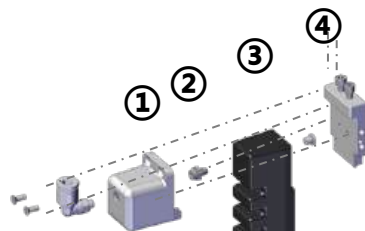
### Air Intake



### Sensor Installation



### Assembly

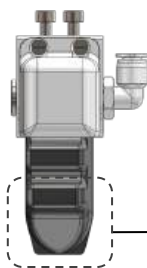
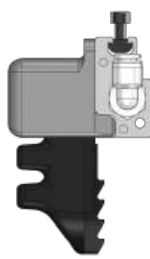
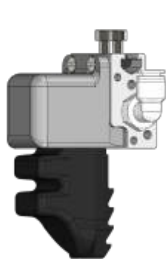


Spare Part:  
① Shell  
② Plug  
③ Finger  
④ Mounting Block







## FM -A3V4 / LS8

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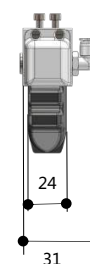
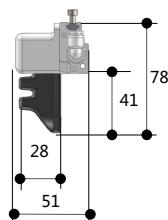
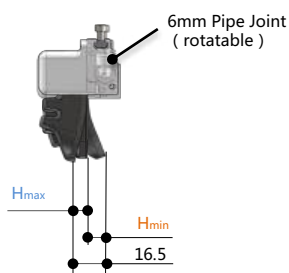


Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

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

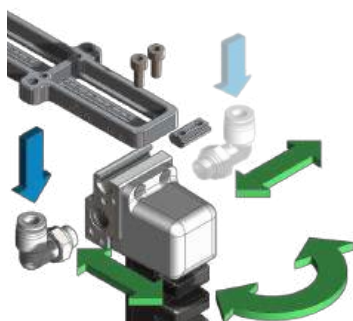
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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.

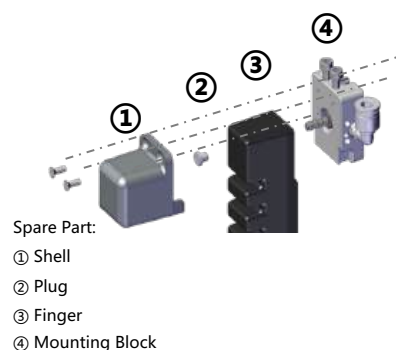


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

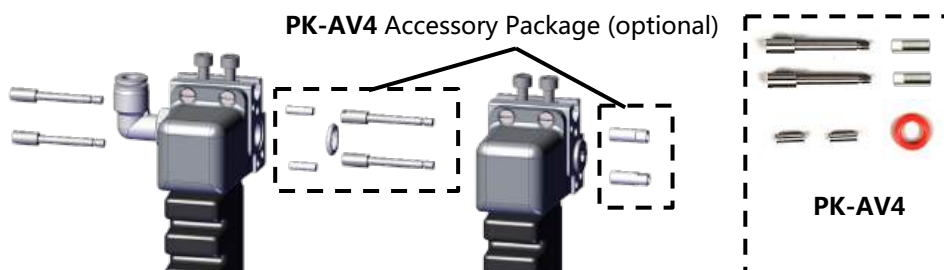


### Series combination:

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 with 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.









## FM -A3V5 / LS8

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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

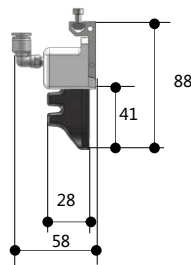
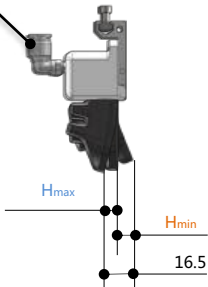


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



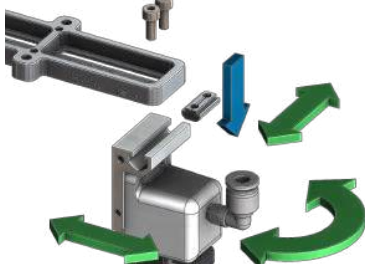
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

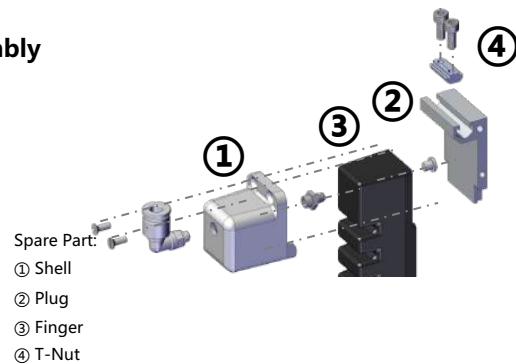


The measuring unit: [mm]

### Air Intake & Pose Adjustment



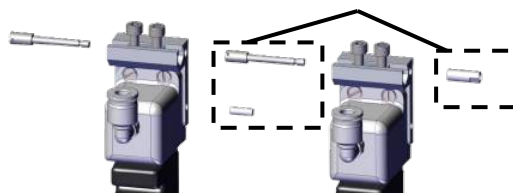
### Assembly



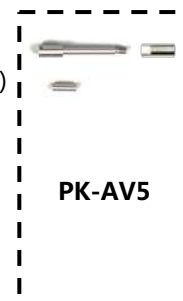
### Series combination:

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)

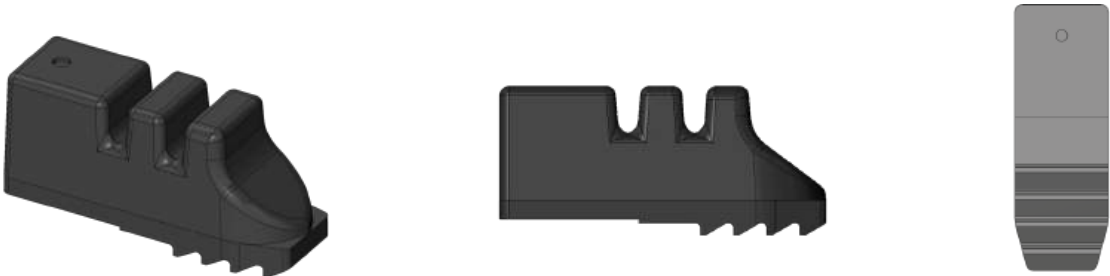






F -A3T / LS8

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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



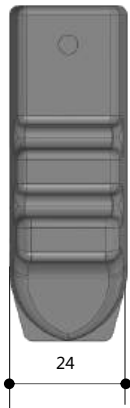
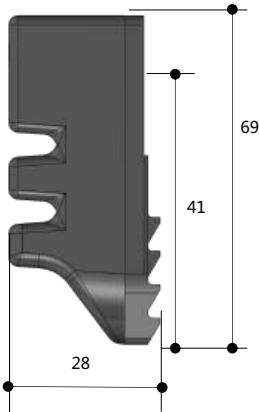
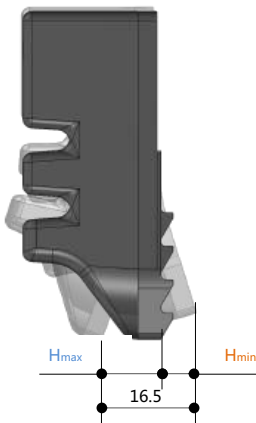
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

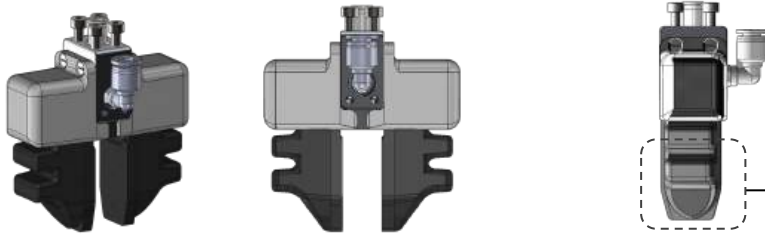
Dimension Parameters









## FM -A3V1 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

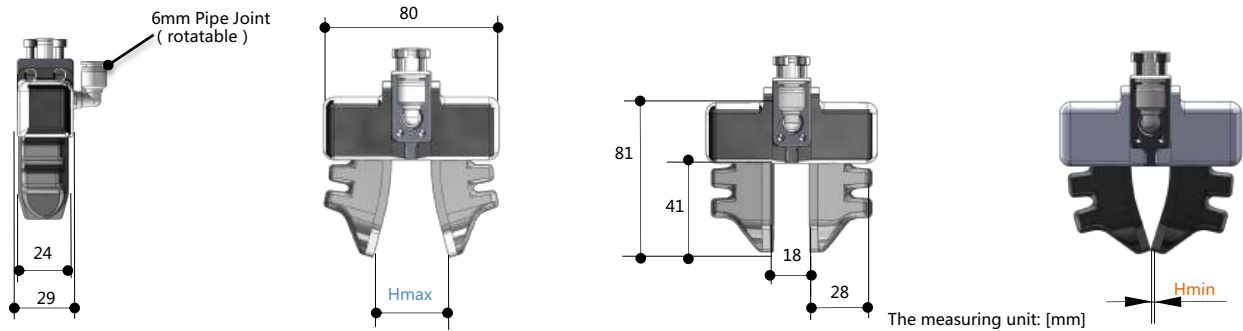
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A3V1/LF1[P]			FM-A3V1/LF1[PAS]			FM-A3V1/LF1[H]			FM-A3V1/LF1[HAS]		
Finger color: Black						Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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	



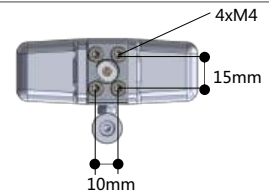
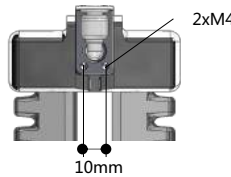
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



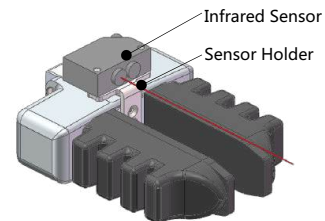
### Fixation



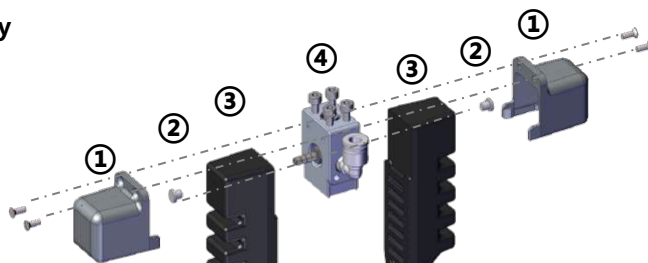
### Air Intake



### Sensor Installation



### Assembly



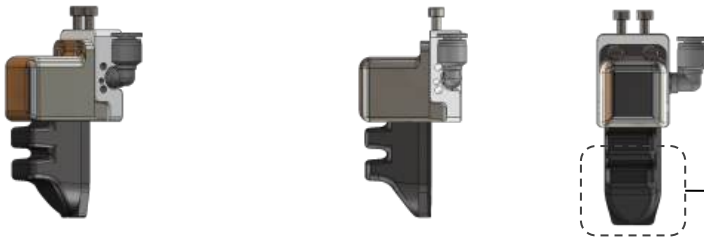
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A3V2 / LF1

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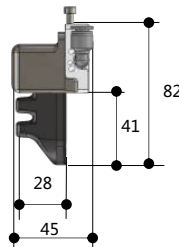
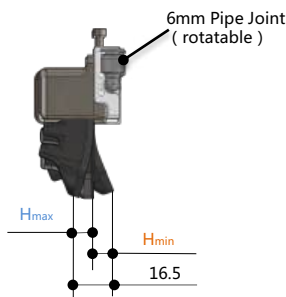
Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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	 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.

**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



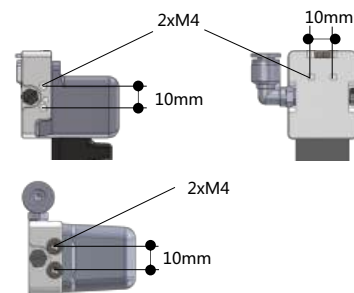
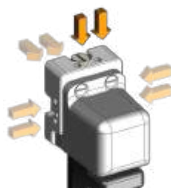
The measuring unit: [mm]



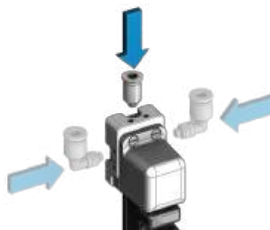
### Pose Adjustment



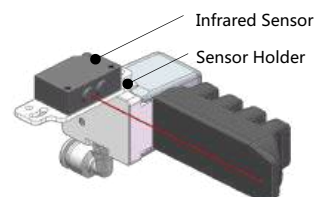
### Fixation



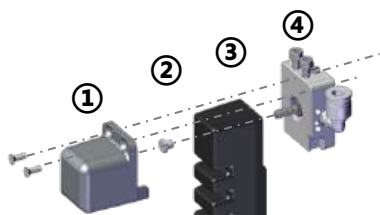
### Air Intake



### Sensor Installation



### Assembly

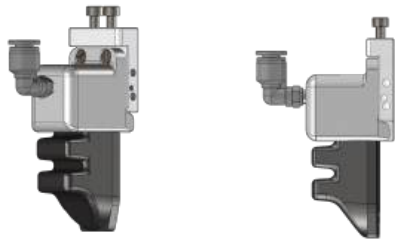


Spare Part:  
① Shell  
② Plug  
③ Finger  
④ Mounting Block





## FM -A3V3 / 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-A3V3/LF1[P]		FM-A3V3/LF1[PAS]			FM-A3V3/LF1[H]		FM-A3V3/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	77	8.5	7	⚠ 300	 470	77

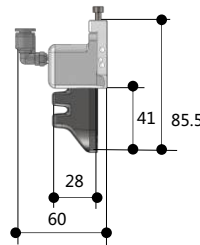
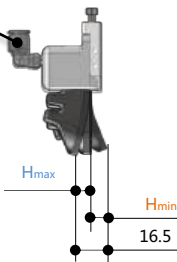


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



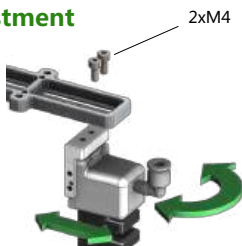
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

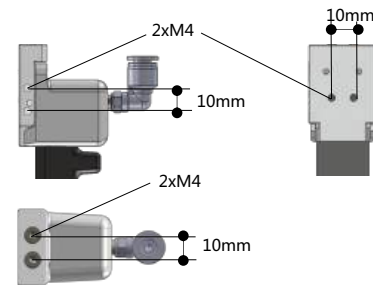


The measuring unit: [mm]

### Pose Adjustment



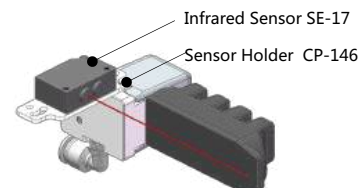
### Fixation



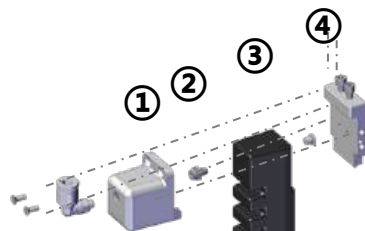
### Air Intake



### Sensor Installation



### Assembly



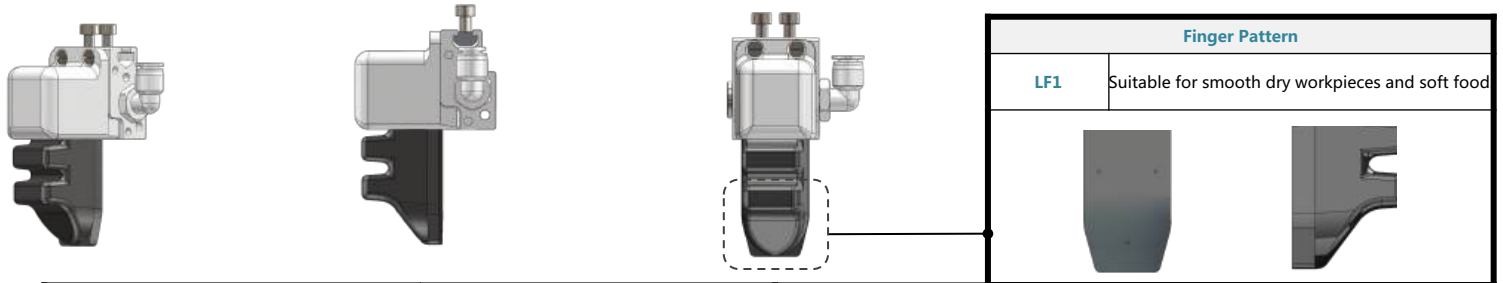
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A3V4 / LF1

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Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food

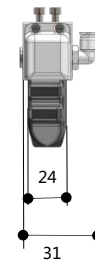
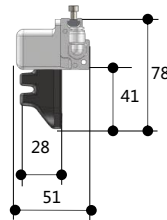
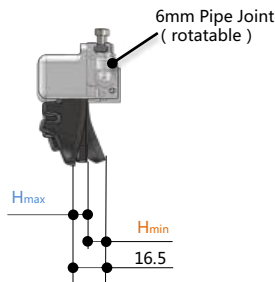
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A3V4/LF1[P]		FM-A3V4/LF1[PAS]			FM-A3V4/LF1[H]		FM-A3V4/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

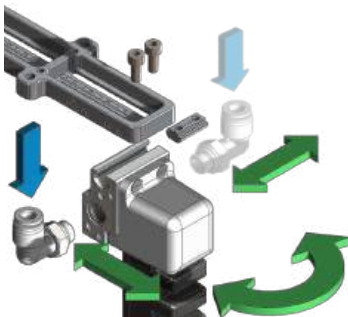


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

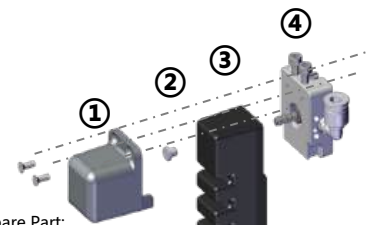


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

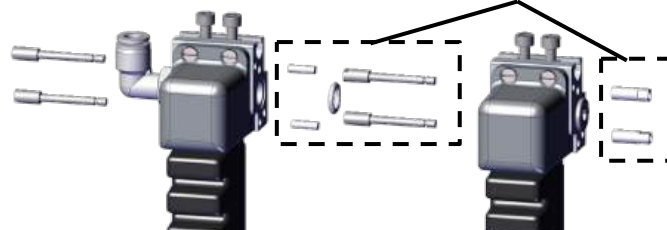
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

### PK-AV4 Accessory Package (optional)









## FM -A3V5 / 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-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

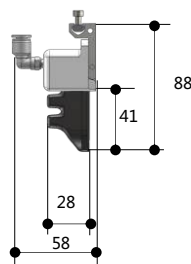
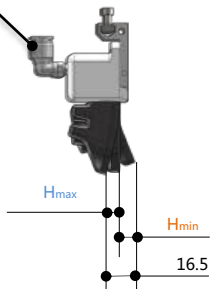


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



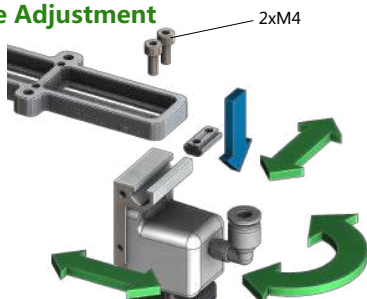
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

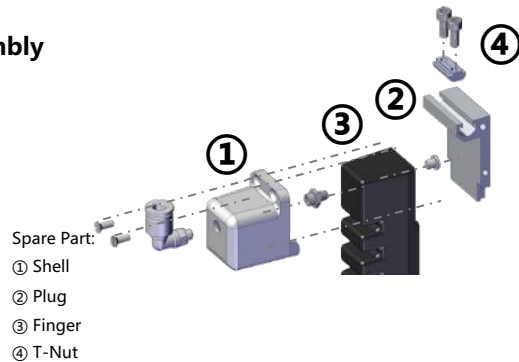


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

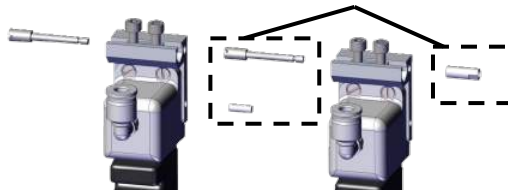


### Series combination:

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.

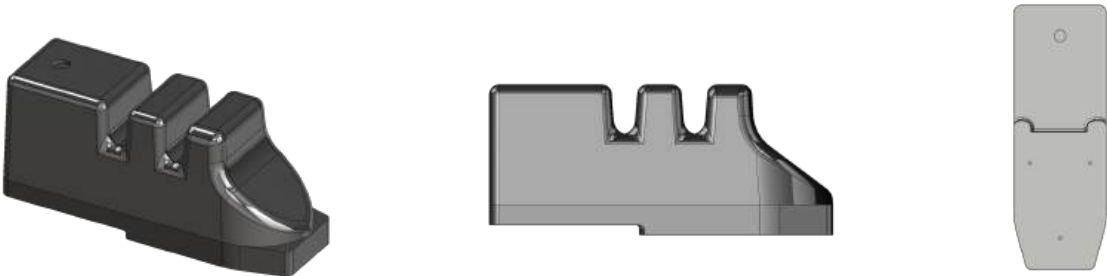
### PK-AV5 Accessory Package (optional)







F -A3T / LF1

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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	



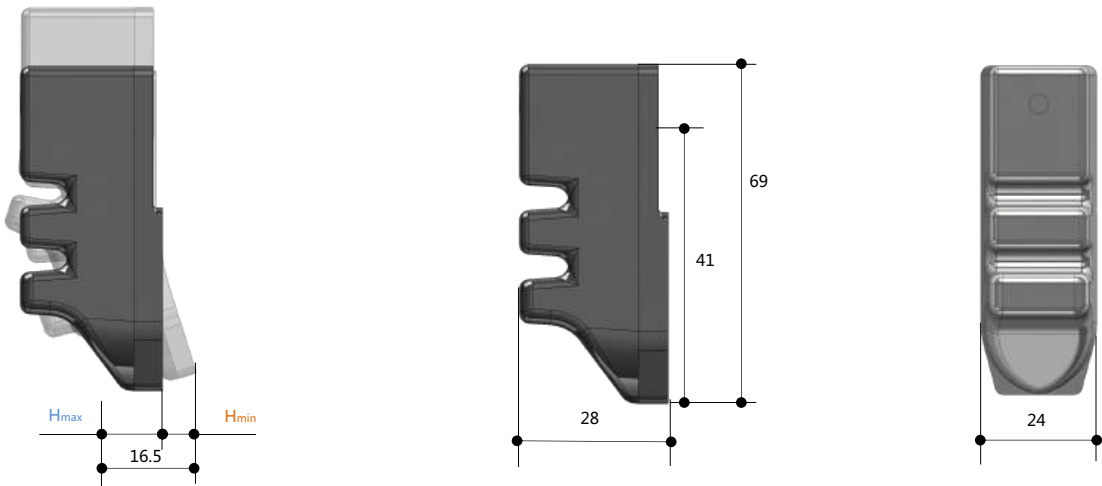
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

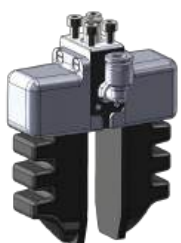
Dimension Parameters











## FM -A4V1 / 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-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

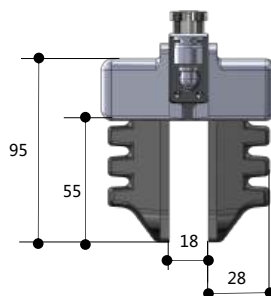
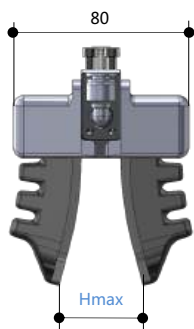
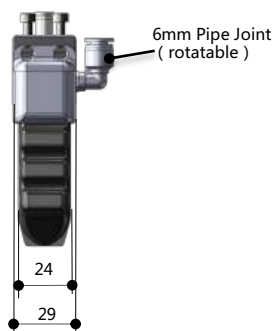


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



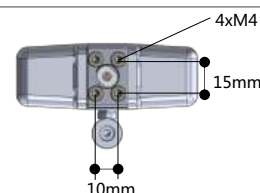
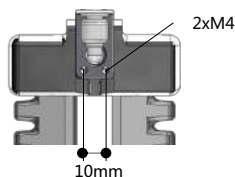
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

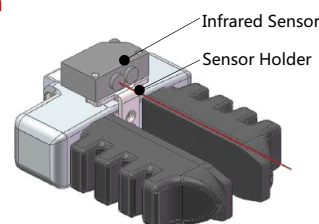
### Fixation



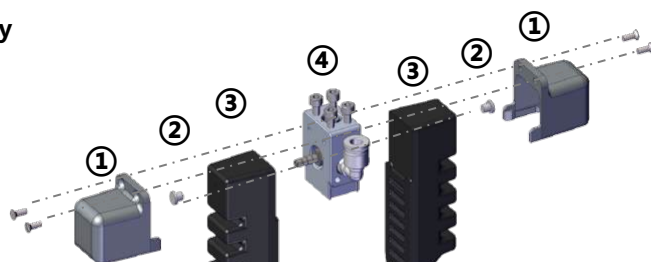
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A4V2 / LS1

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

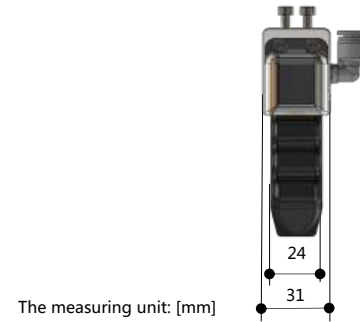
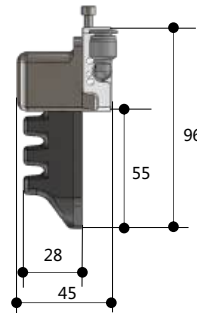
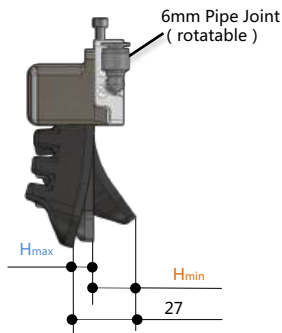
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V2/LS1[P]		FM-A4V2/LS1[PAS]			FM-A4V2/LS1[H]		FM-A4V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

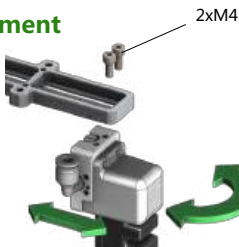


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

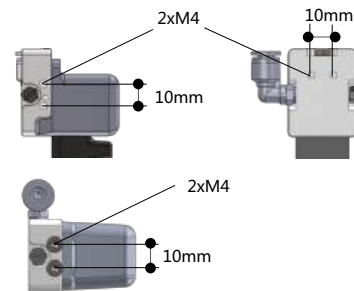
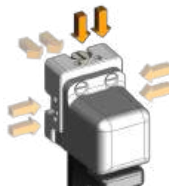


The measuring unit: [mm]

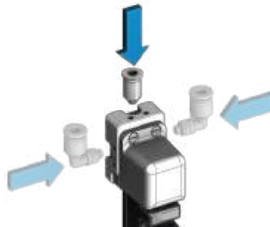
### Pose Adjustment



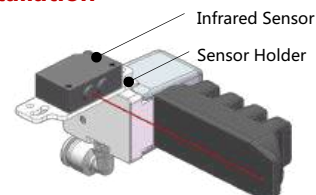
### Fixation



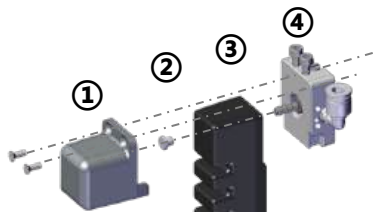
### Air Intake



### Sensor Installation



### Assembly



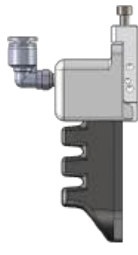
Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A4V3 / 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-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

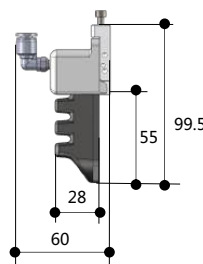
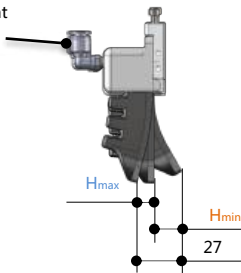


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]

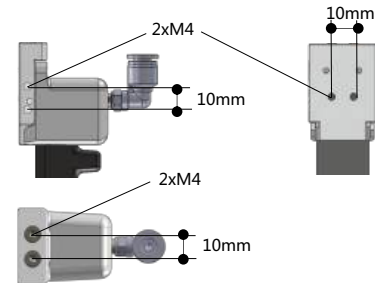


FM

### Pose Adjustment



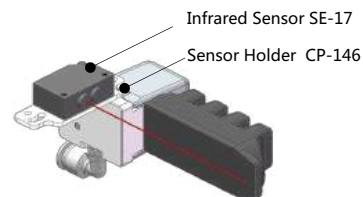
### Fixation



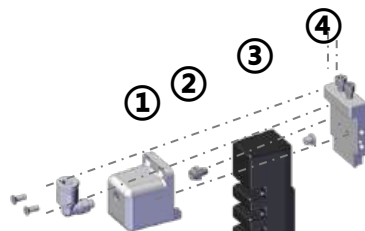
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

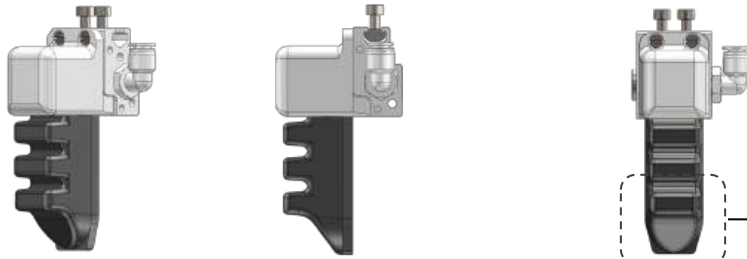
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A4V4 / LS1

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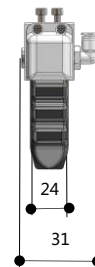
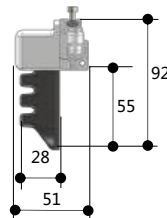
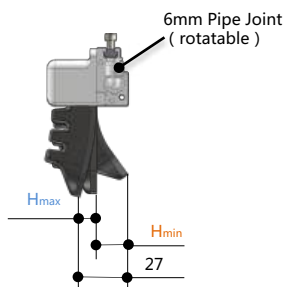


Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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

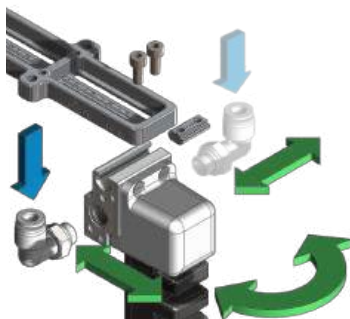
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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.

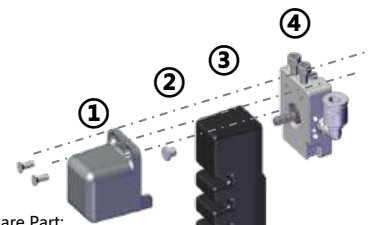


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

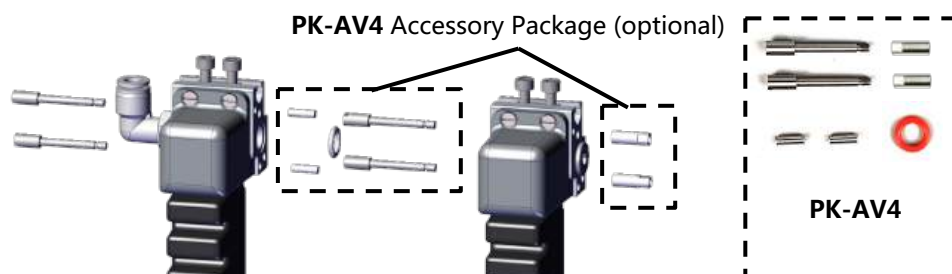


Spare Part:  
① Shell  
② Plug  
③ Finger  
④ Mounting Block

### 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.

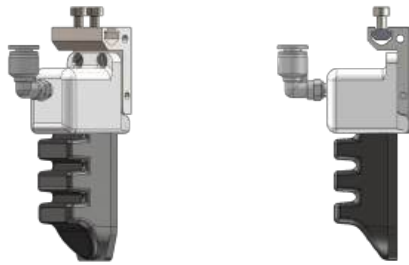
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







## FM -A4V5 / 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-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

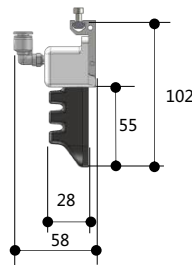
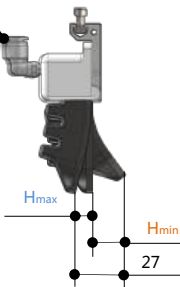


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

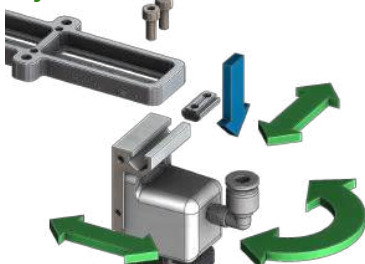
6mm Pipe Joint  
( rotatable )



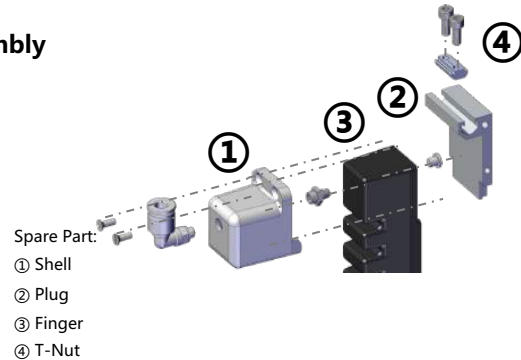
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



### 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.

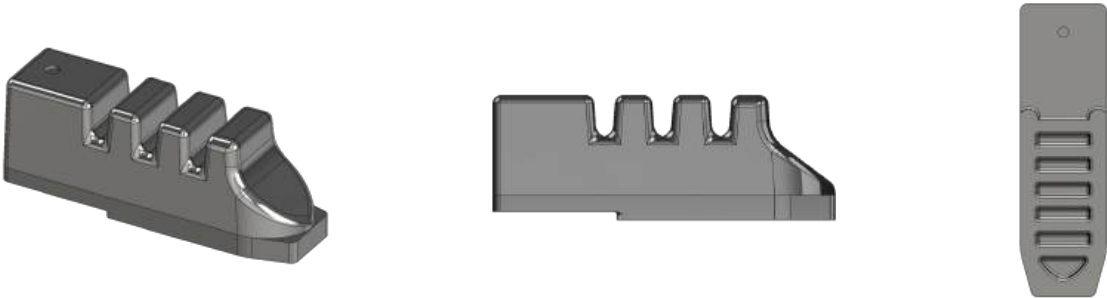
### PK-AV5 Accessory Package (optional)







F -A4T / LS1

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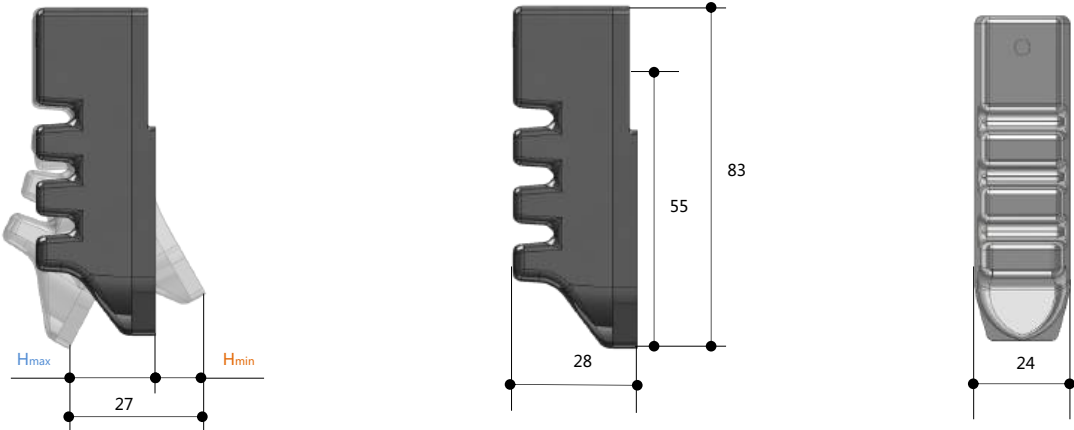


Finger Pattern			Features						
LS1	Standard form		Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.						
Normal Material F-A4T/LS1[P]			Dust-free Normal Material F-A4T/LS1[PAS]		Strong Material F-A4T/LS1[H]			Dust-free Strong Material F-A4T/LS1[HAS]	
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	 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

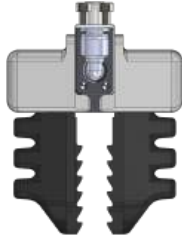


FM







## FM -A4V1 / LS8

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

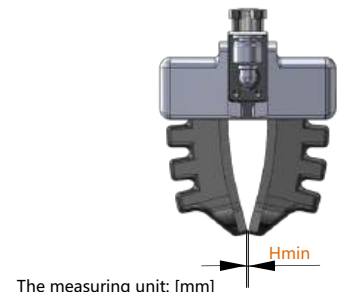
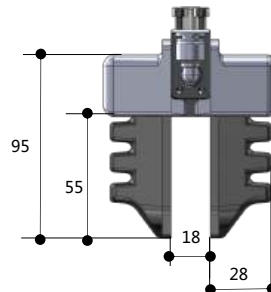
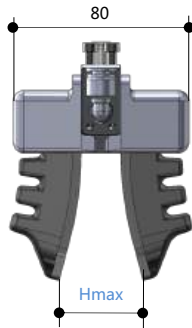
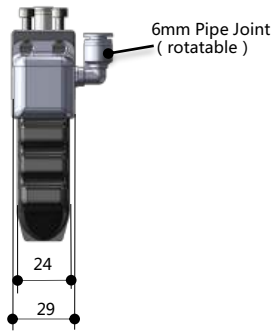
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V1/LS8[P]		FM-A4V1/LS8[PAS]			FM-A4V1/LS8[H]		FM-A4V1/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	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.

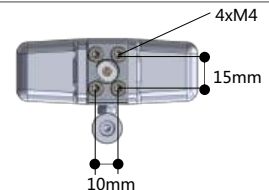
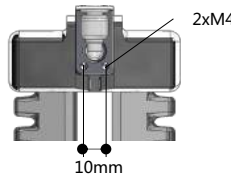


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

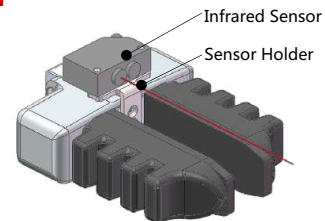
### Fixation



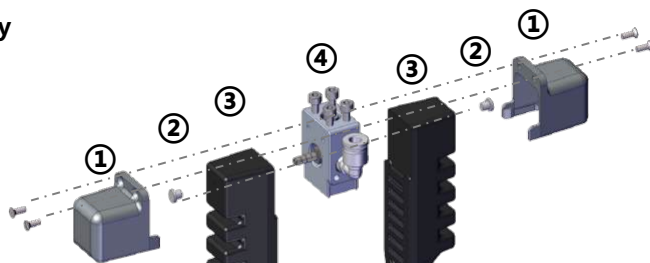
### Air Intake



### Sensor Installation



### Assembly



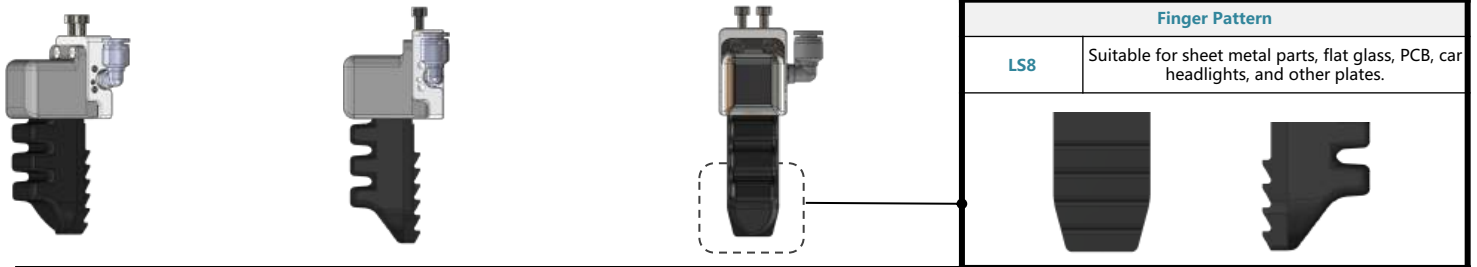
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A4V2 / LS8

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

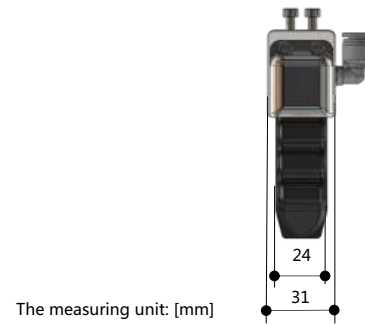
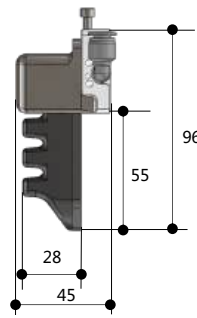
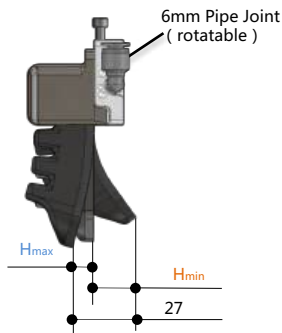
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V2/LS8[P]		FM-A4V2/LS8[PAS]			FM-A4V2/LS8[H]		FM-A4V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



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



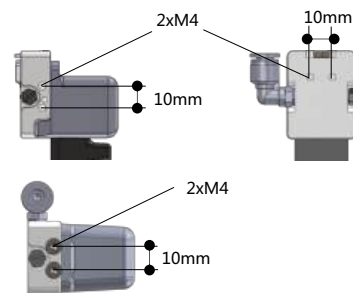
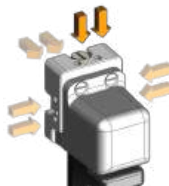
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



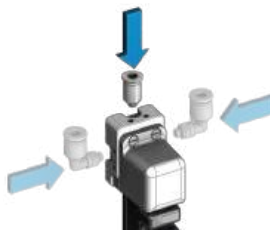
### Pose Adjustment



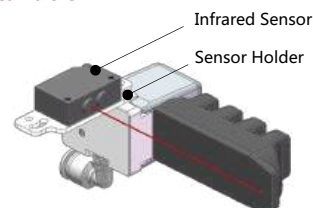
### Fixation



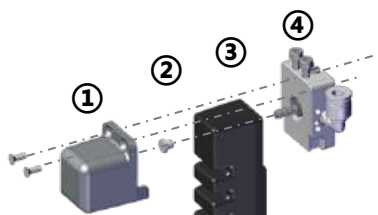
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

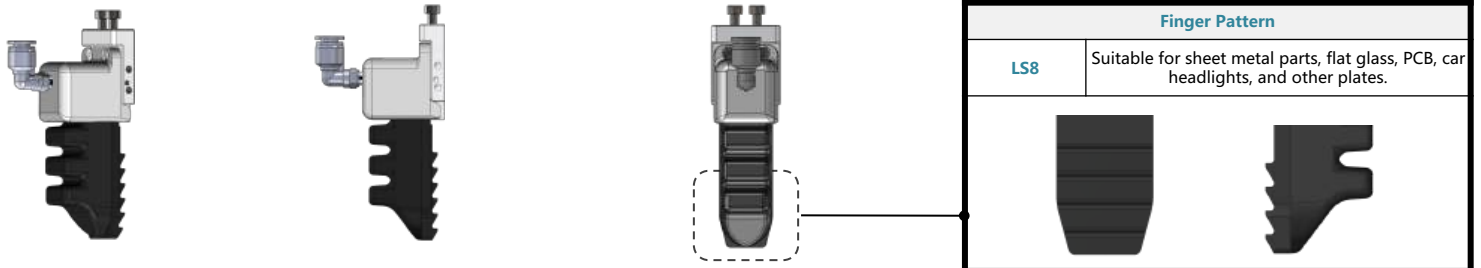
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A4V3 / LS8

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Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V3/LS8[P]		FM-A4V3/LS8[PAS]			FM-A4V3/LS8[H]		FM-A4V3/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	84	17	12	 300	 490	84

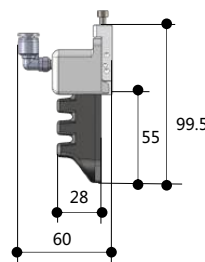
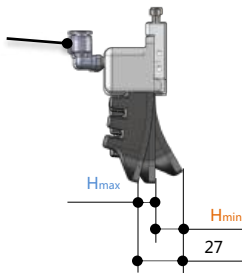


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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]

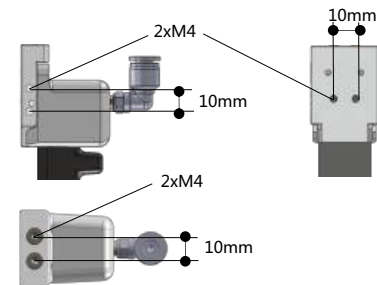


FM

### Pose Adjustment



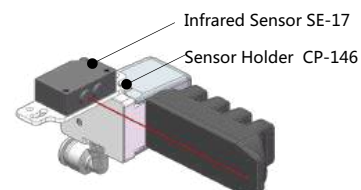
### Fixation



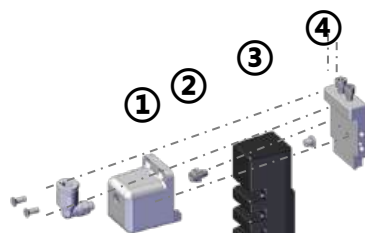
### Air Intake



### Sensor Installation



### Assembly



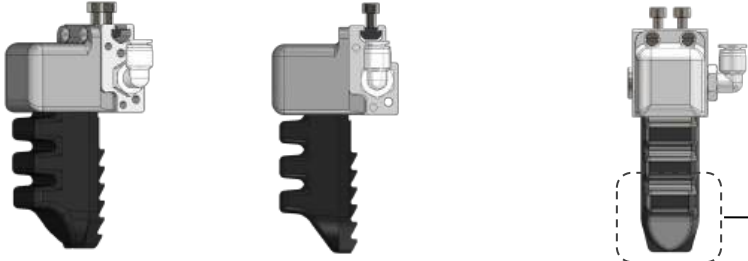



Spare Part:

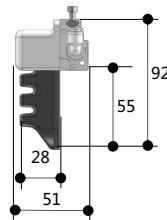
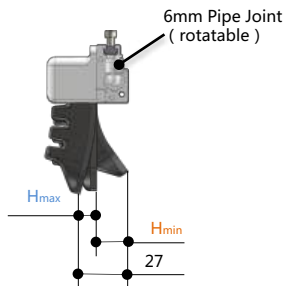
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



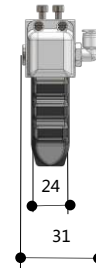
## FM -A4V4 / LS8

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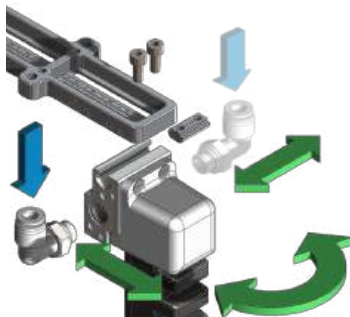
					<b>Finger Pattern</b>				
					LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.			
									
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V4/LS8[P]		FM-A4V4/LS8[PAS]			FM-A4V4/LS8[H]		FM-A4V4/LS8[HAS]		
Finger color: 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.				



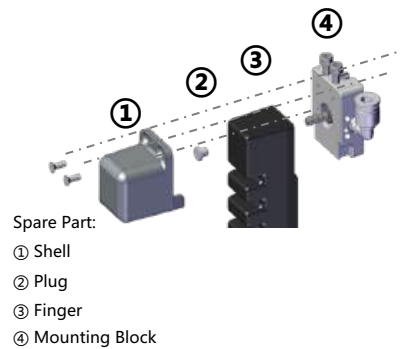
The measuring unit: [mm]



### Air Intake & Pose Adjustment



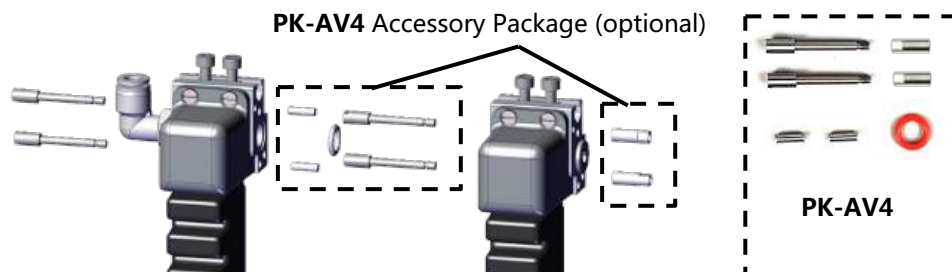
### Assembly



### 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.





## FM -A4V5 / LS8

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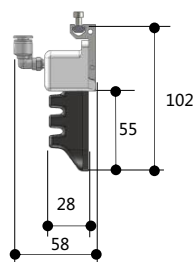
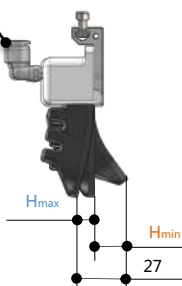
Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.

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

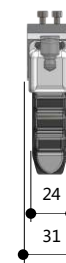
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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.

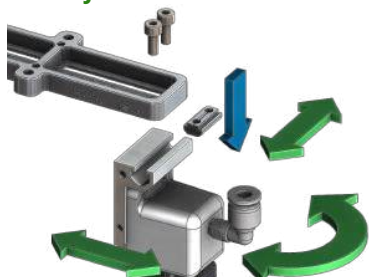
6mm Pipe Joint  
( rotatable )



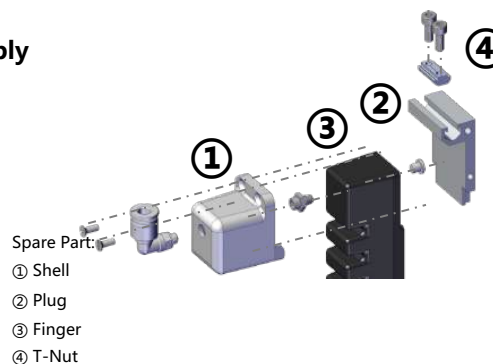
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



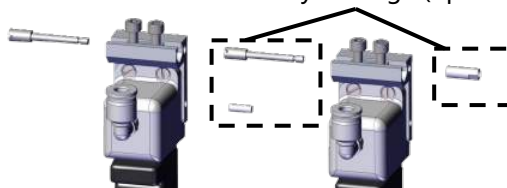
### Series combination:

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.

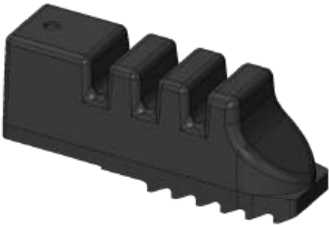
### PK-AV5 Accessory Package (optional)





F -A4T / LS8

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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	

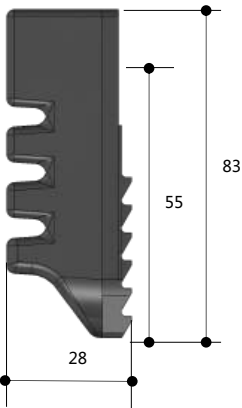
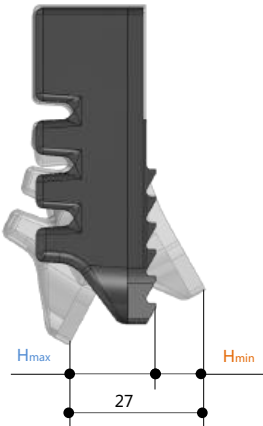


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

Dimension Parameters

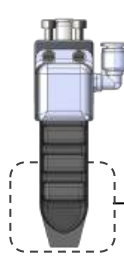


FM



## FM -A4V1 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

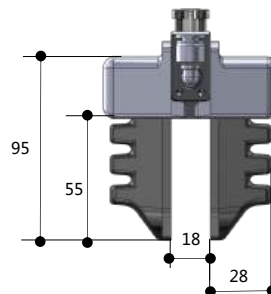
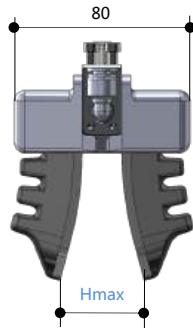
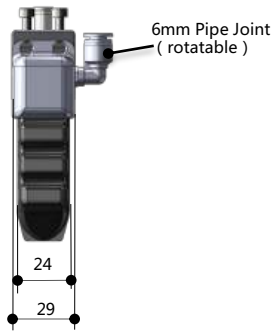
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A4V1/FS3[P]			FM-A4V1/FS3[PAS]			FM-A4V1/FS3[H]			FM-A4V1/FS3[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

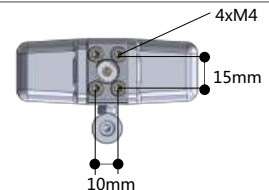
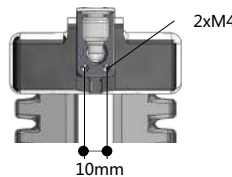


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

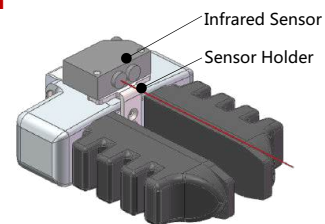
### Fixation



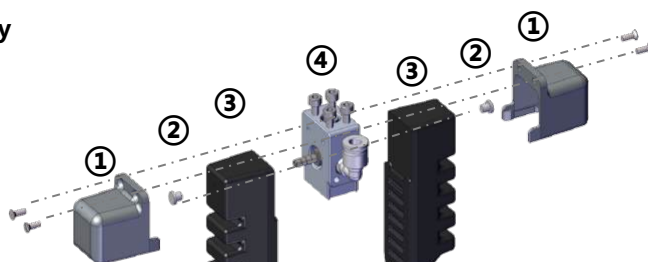
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

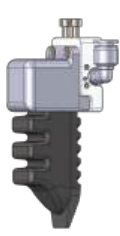
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A4V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

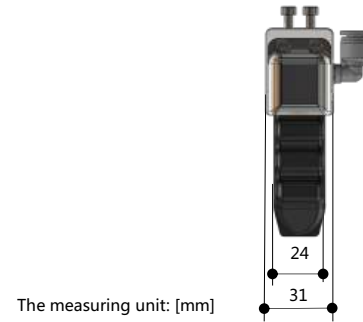
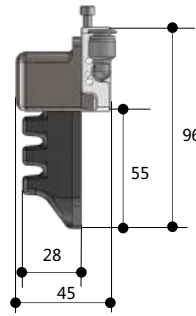
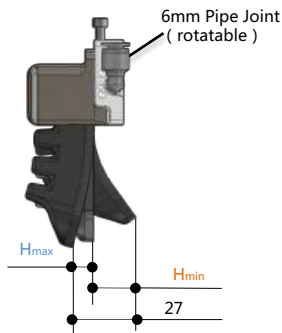
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V2/FS3[P]		FM-A4V2/FS3[PAS]			FM-A4V2/FS3[H]		FM-A4V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



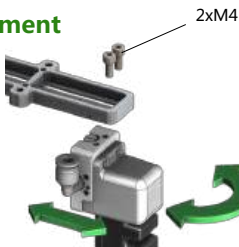
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



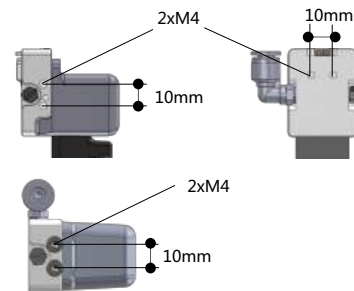
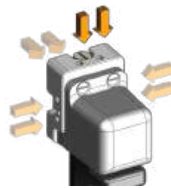
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



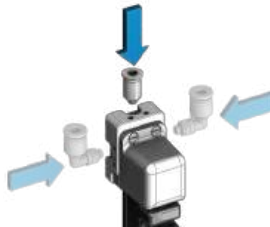
### Pose Adjustment



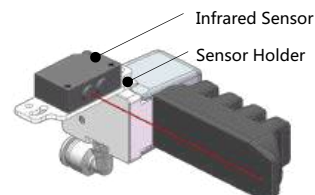
### Fixation



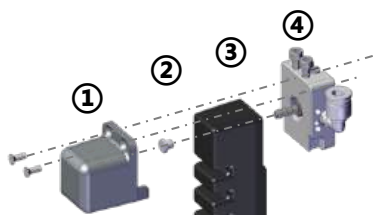
### Air Intake



### Sensor Installation



### Assembly



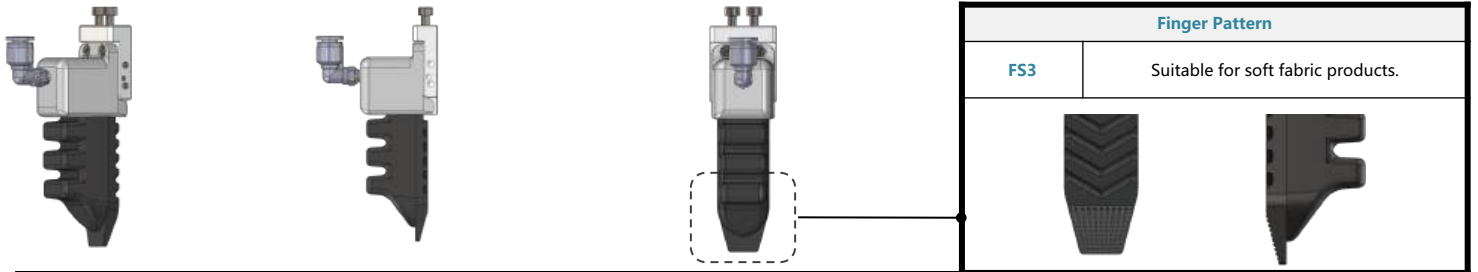
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A4V3 / 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-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

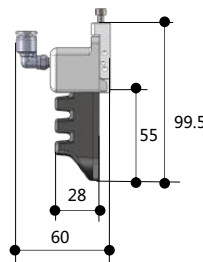
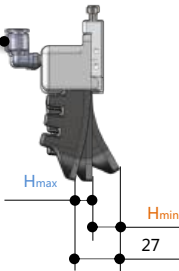


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

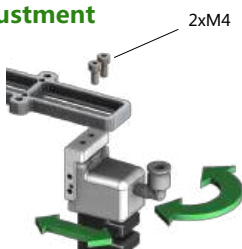
6mm Pipe Joint  
( rotatable )



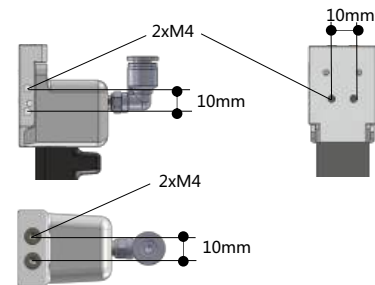
The measuring unit: [mm]



### Pose Adjustment



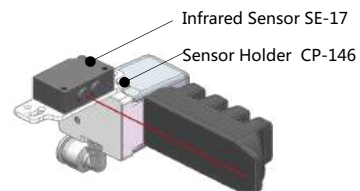
### Fixation



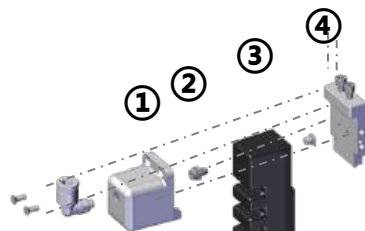
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A4V4 / FS3

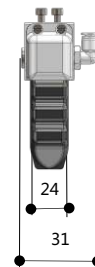
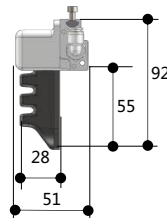
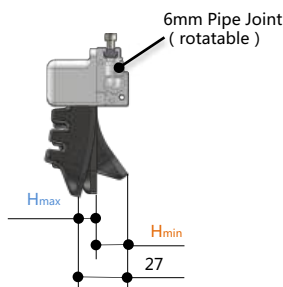
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Finger Pattern	
FS3	Suitable for soft fabric products.

Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material			
FM-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

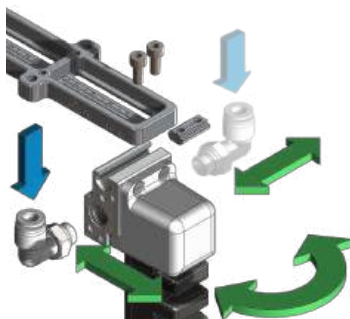
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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

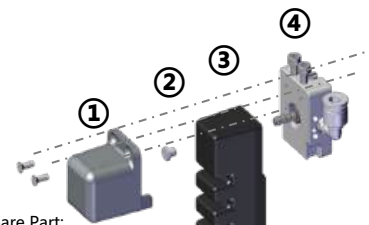


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

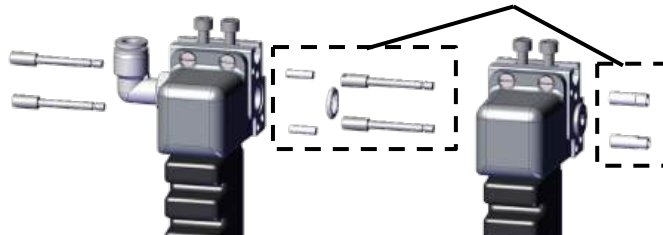
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

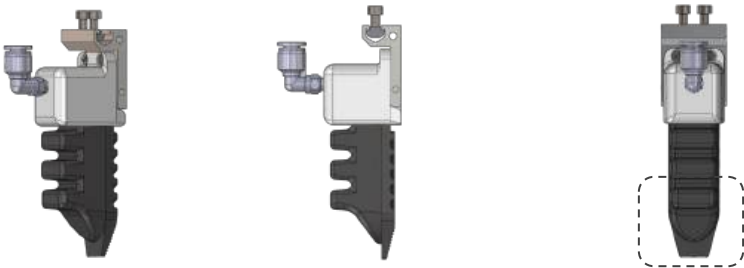






### PK-AV4 Accessory Package (optional)





## FM -A4V5 / FS3

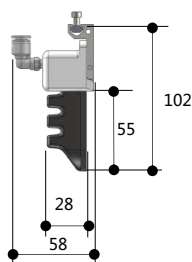
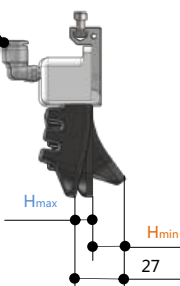
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			<table><tr><th colspan="2">Finger Pattern</th></tr><tr><td>FS3</td><td>Suitable for soft fabric products.</td></tr><tr><td></td><td></td></tr></table>		Finger Pattern		FS3	Suitable for soft fabric products.		
Finger Pattern										
FS3	Suitable for soft fabric products.									
										
Normal Material <b>FM-A4V5/FS3[P]</b>		Dust-free Normal Material <b>FM-A4V5/FS3[PAS]</b>		Strong Material <b>FM-A4V5/FS3[H]</b>		Dust-free Strong Material <b>FM-A4V5/FS3[HAS]</b>				
Finger color: Black						Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	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.

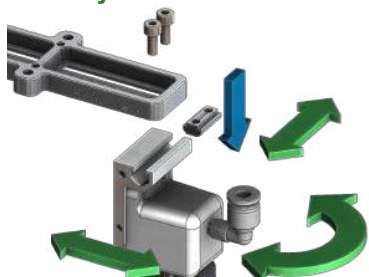
6mm Pipe Joint  
( rotatable )



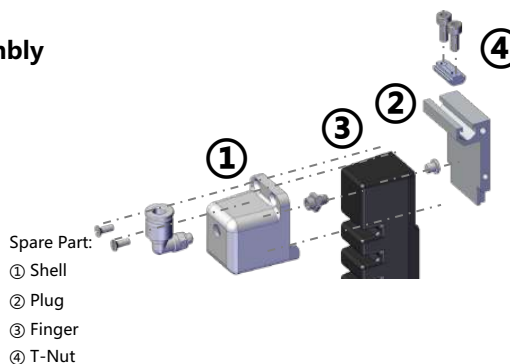
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



### 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.

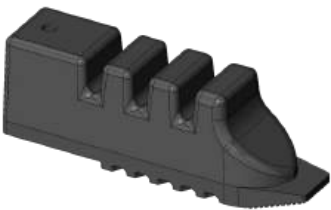
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







F -A4T / FS3

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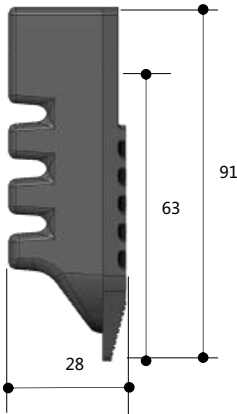
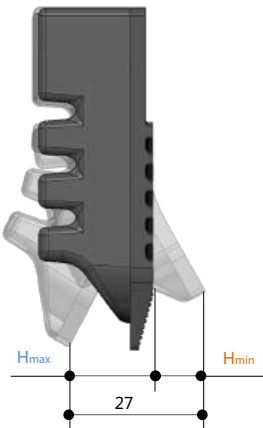


Finger Pattern		Features								
FS3	Special Form	Suitable for soft fabric products.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-A4T/FS3[P]		F-A4T/FS3[PAS]			F-A4T/FS3[H]			F-A4T/FS3[HAS]		
Finger color: Black					Finger color: Grey					
Positive 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



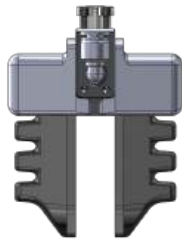
FM







## FM -A4V1 / LF1

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

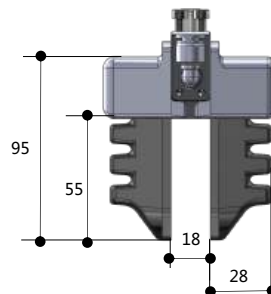
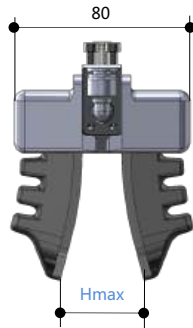
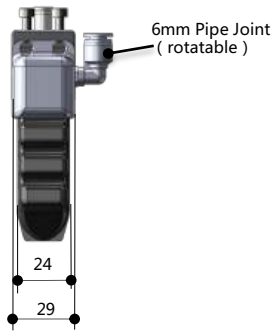
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A4V1/LF1[P]			FM-A4V1/LF1[PAS]			FM-A4V1/LF1[H]			FM-A4V1/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

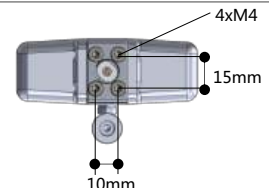
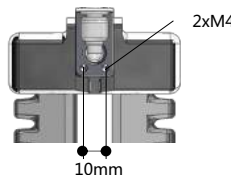


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

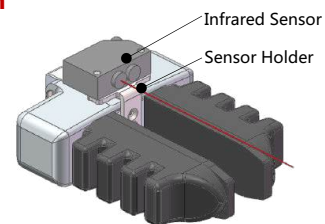
### Fixation



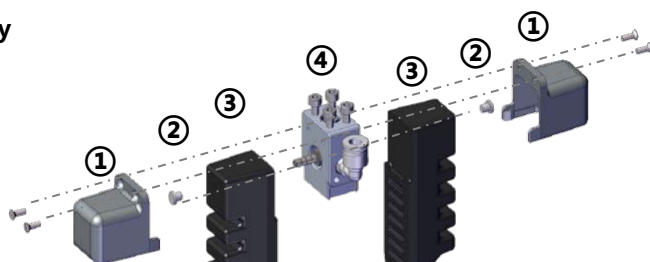
### Air Intake



### Sensor Installation



### Assembly



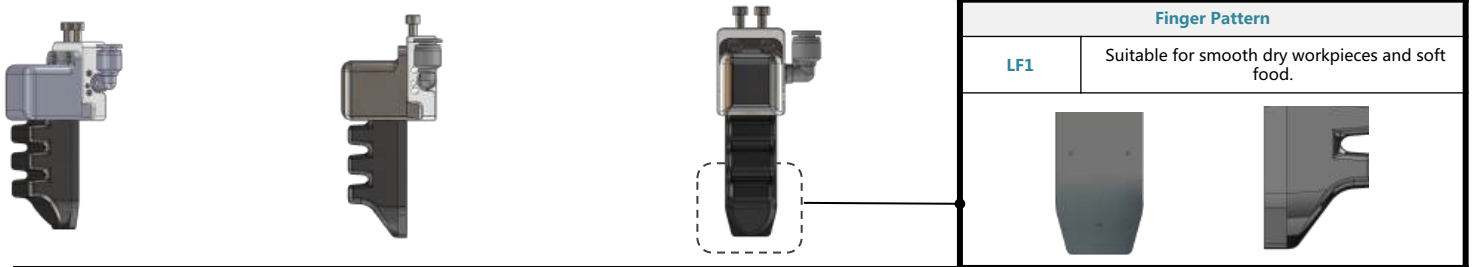
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A4V2 / LF1

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

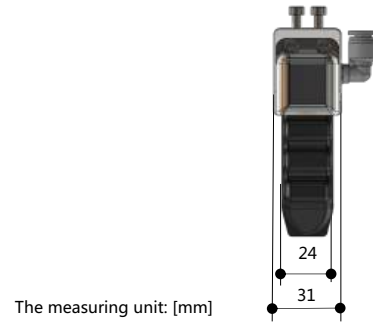
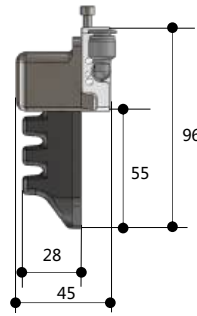
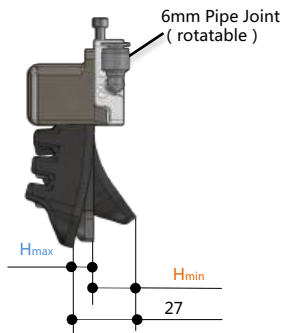
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V2/LF1[P]		FM-A4V2/LF1[PAS]			FM-A4V2/LF1[H]		FM-A4V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



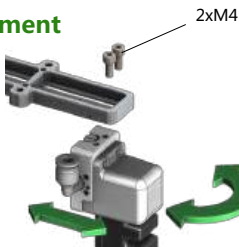
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



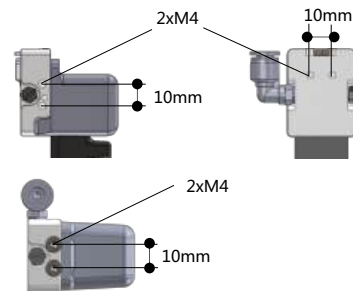
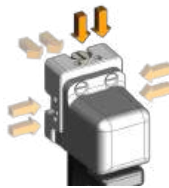
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



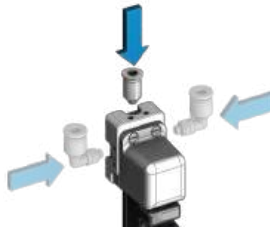
### Pose Adjustment



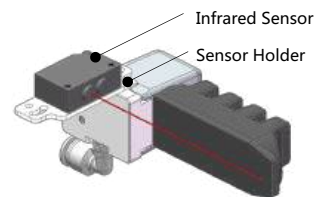
### Fixation



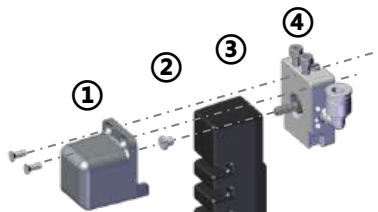
### Air Intake



### Sensor Installation



### Assembly



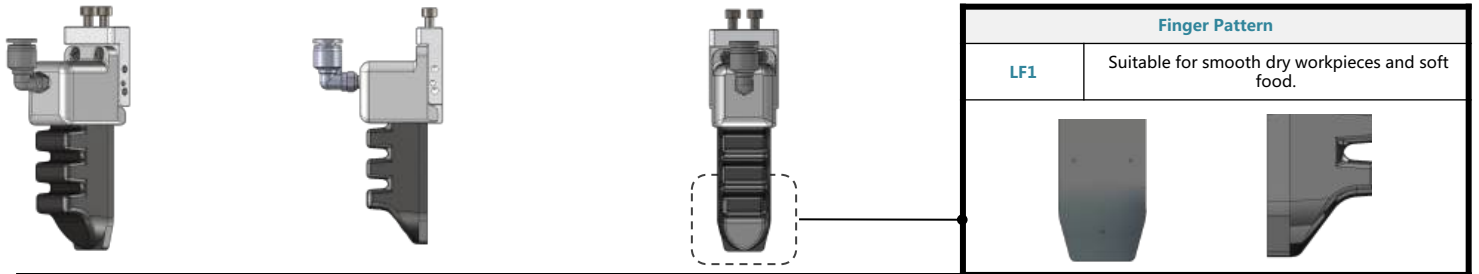
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A4V3 / LF1

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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

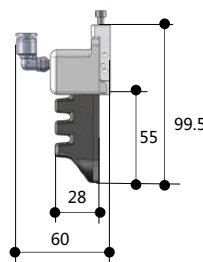
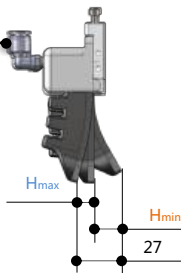


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



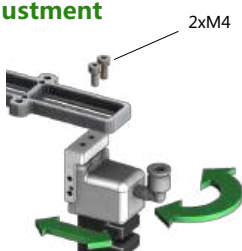
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

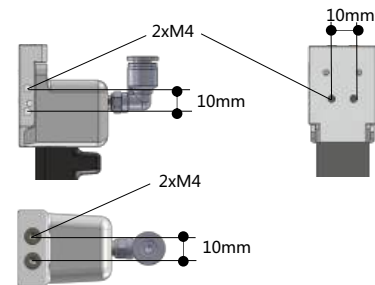


The measuring unit: [mm]

### Pose Adjustment



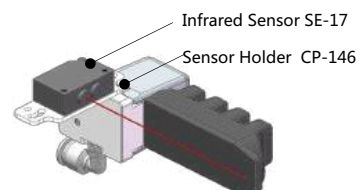
### Fixation



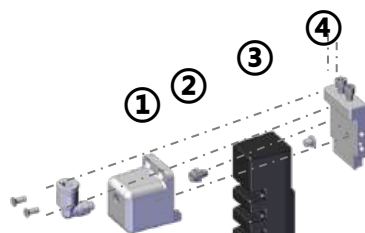
### Air Intake



### Sensor Installation



### Assembly



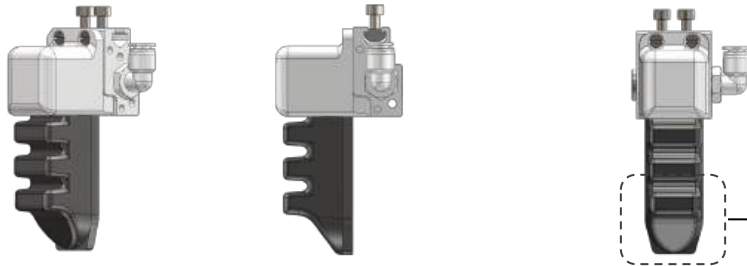
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A4V4 / LF1

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

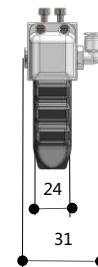
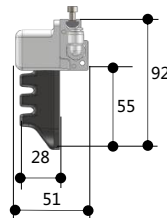
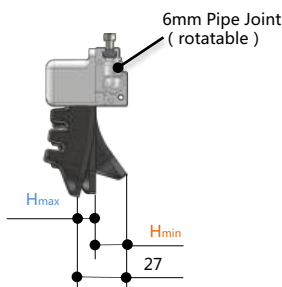
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A4V4/LF1[P]		FM-A4V4/LF1[PAS]			FM-A4V4/LF1[H]		FM-A4V4/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

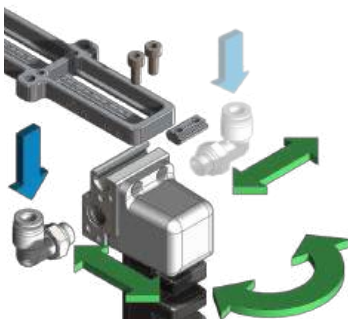


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

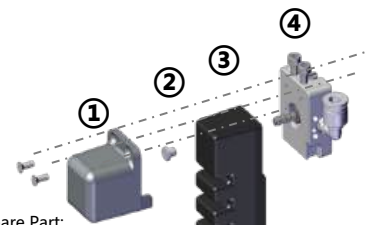


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

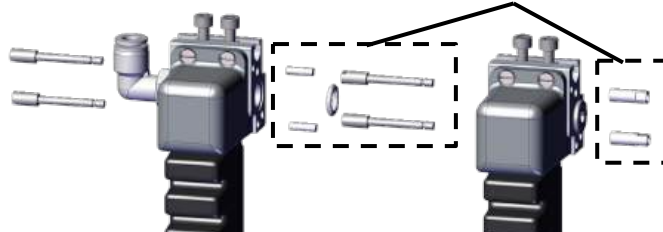
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

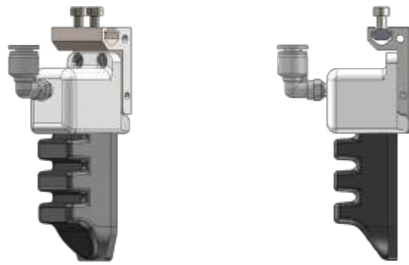
### PK-AV4 Accessory Package (optional)







## FM -A4V5 / LF1

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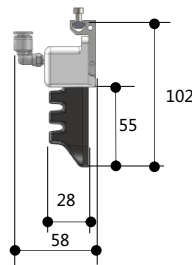
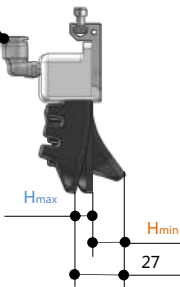
Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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

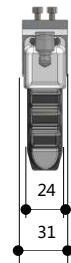
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

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.

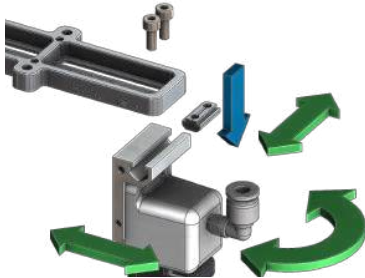
6mm Pipe Joint  
( rotatable )



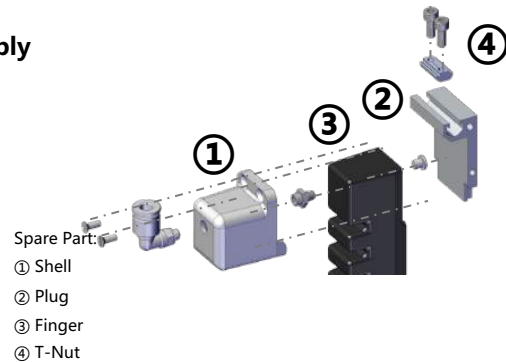
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

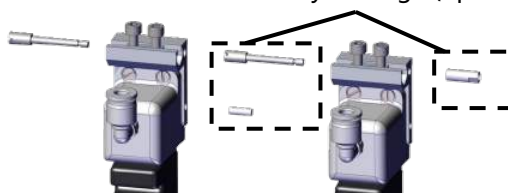


### Series combination:

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)

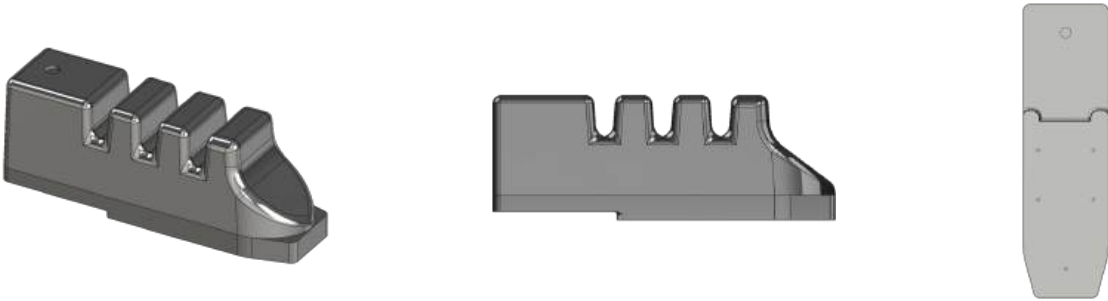








F -A4T / LF1

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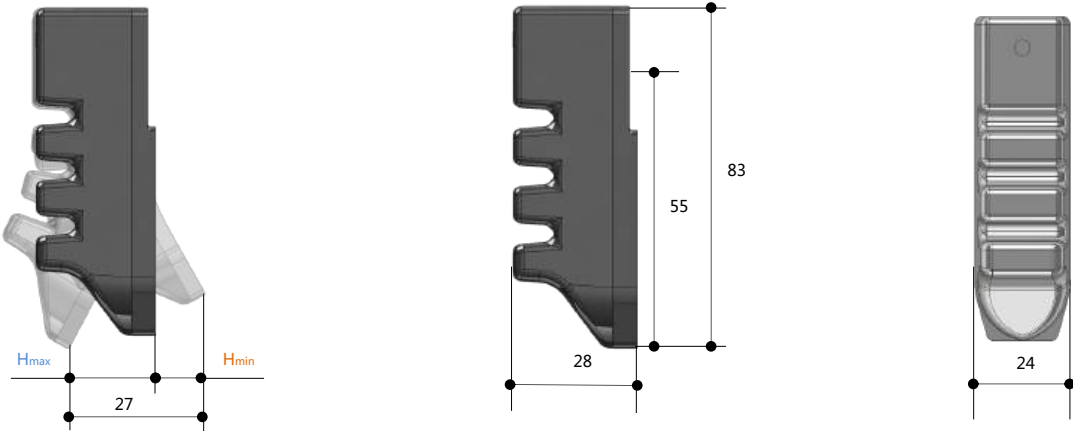


Finger Pattern		Features								
LF1	Special Form	Suitable for smooth dry workpieces and soft food.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-A4T/LF1[P]		F-A4T/LF1[PAS]			F-A4T/LF1[H]			F-A4T/LF1[HAS]		
Finger color: Black					Finger color: Grey					
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.

Dimension Parameters

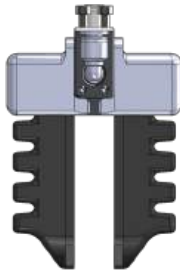
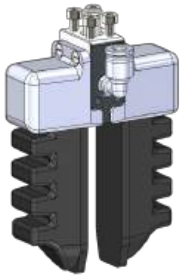




FM







## FM -A5V1 / LS1

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

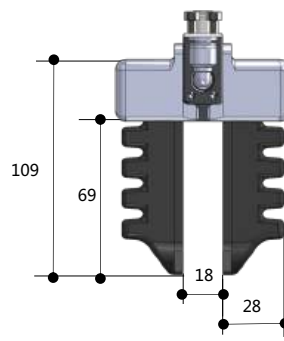
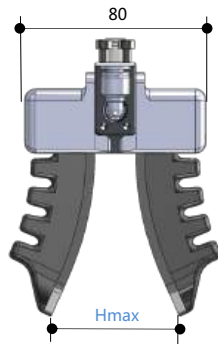
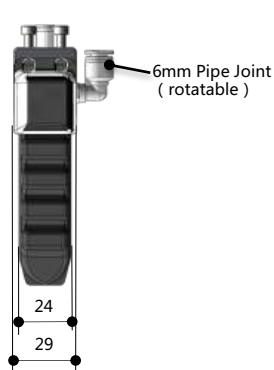
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V1/LS1[P]		FM-A5V1/LS1[PAS]			FM-A5V1/LS1[H]		FM-A5V1/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

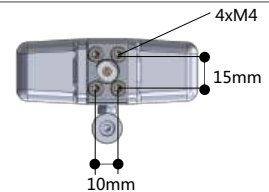
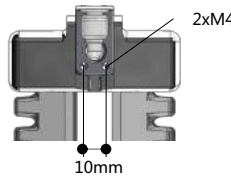


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

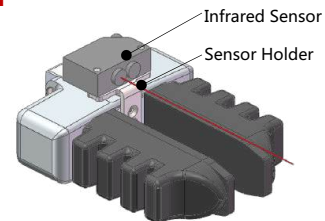
### Fixation



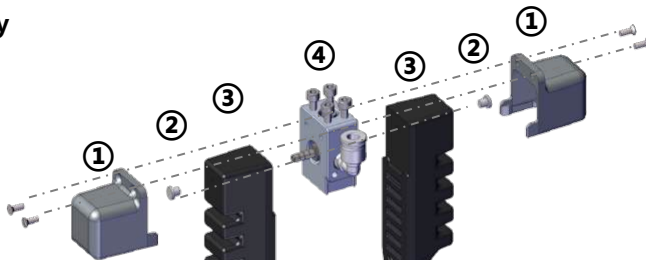
### Air Intake



### Sensor Installation



### Assembly



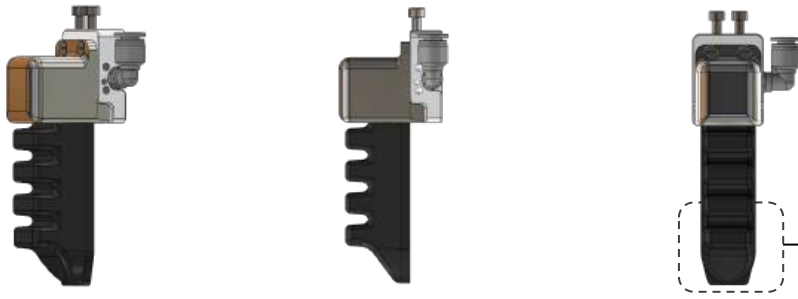
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A5V2 / LS1

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

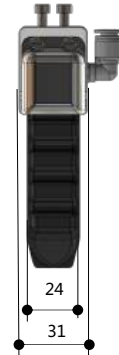
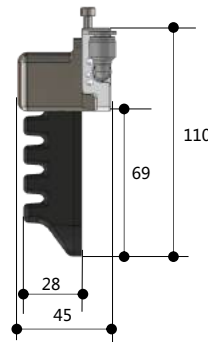
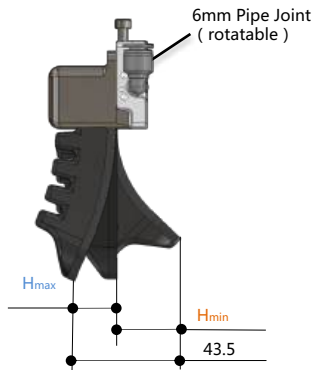
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V2/LS1[P]		FM-A5V2/LS1[PAS]			FM-A5V2/LS1[H]		FM-A5V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

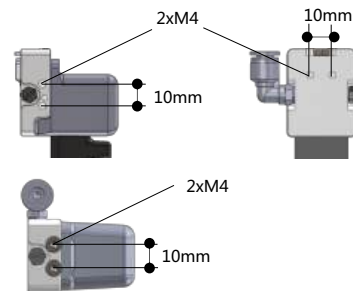
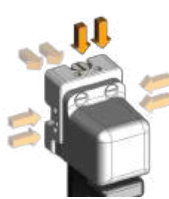


The measuring unit: [mm]

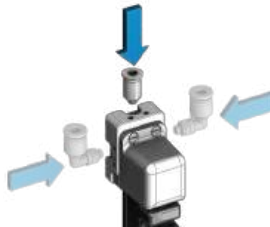
### Pose Adjustment



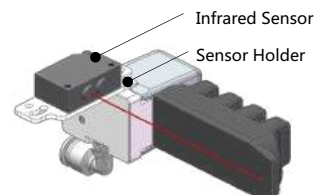
### Fixation



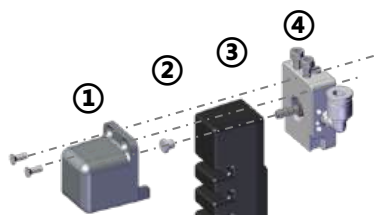
### Air Intake



### Sensor Installation



### Assembly



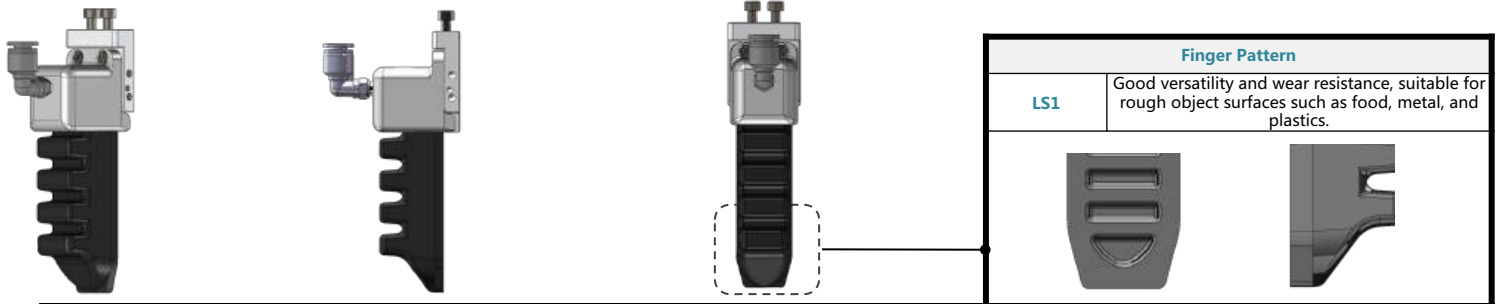
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A5V3 / LS1

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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

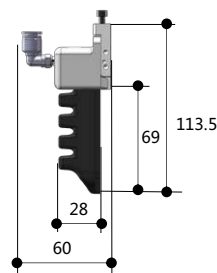
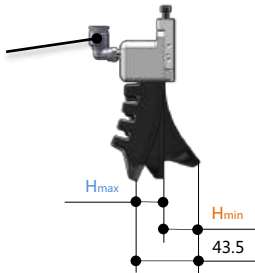


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



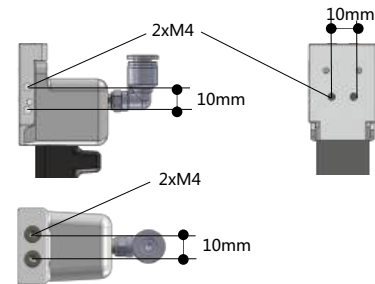
The measuring unit: [mm]



### Pose Adjustment



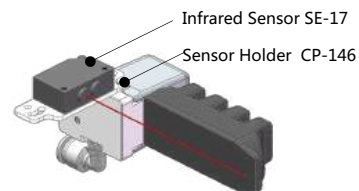
### Fixation



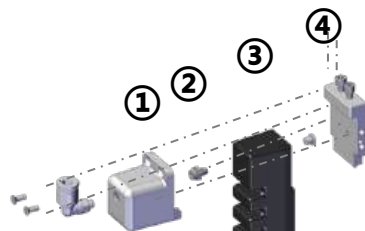
### Air Intake



### Sensor Installation



### Assembly



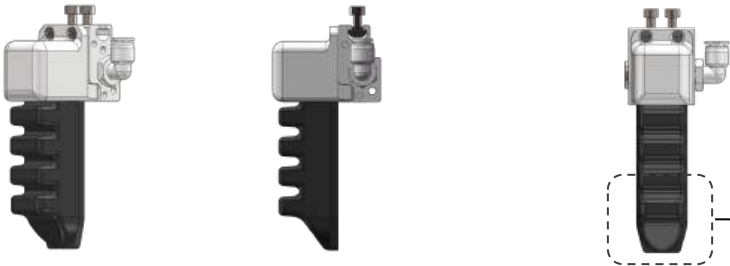



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

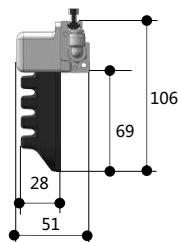
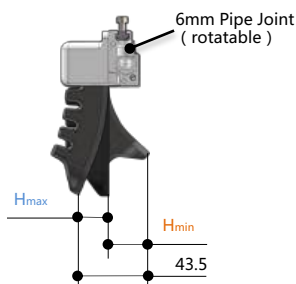


## FM -A5V4 / LS1

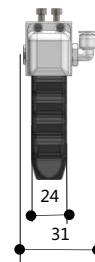
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			<b>Finger Pattern</b>		
			LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.	
					
Normal Material		Dust-free Normal Material		Strong Material	Dust-free Strong Material
FM-A5V4/LS1[P]		FM-A5V4/LS1[PAS]		FM-A5V4/LS1[H]	FM-A5V4/LS1[HAS]
Finger color: Black					
Positive Pressure Range ( P=100kPa ) 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	
Finger color: Grey					
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	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.		

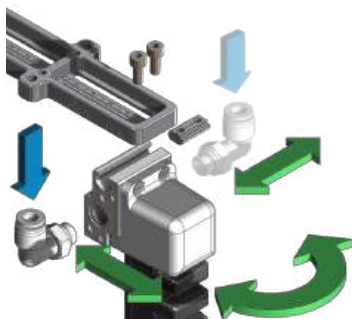
FM



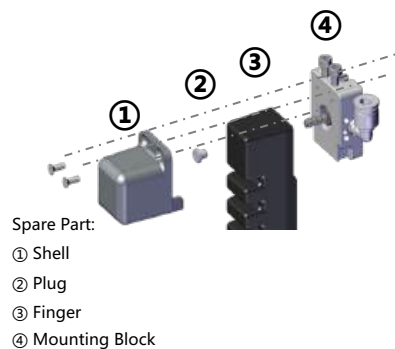
The measuring unit: [mm]



### Air Intake & Pose Adjustment



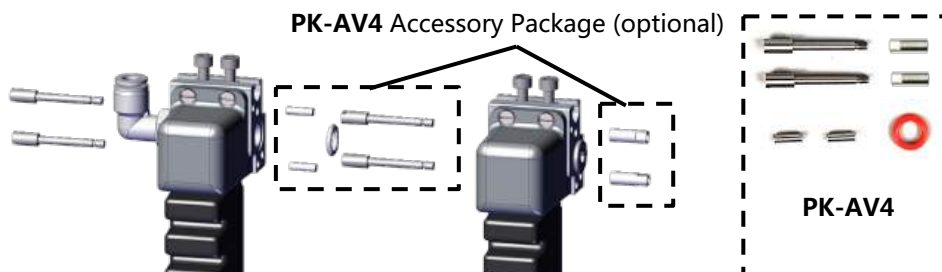
### Assembly



### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

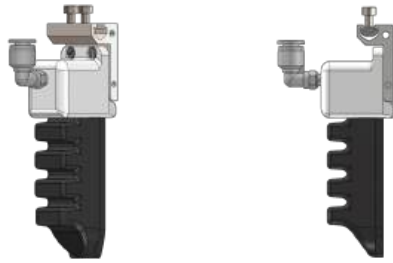








## FM -A5V5 / LS1

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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-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

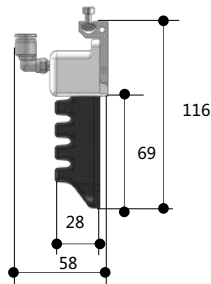
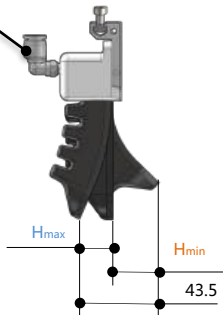


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

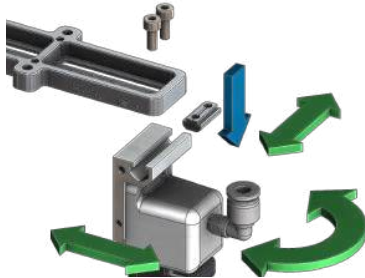
6mm Pipe Joint  
( rotatable )



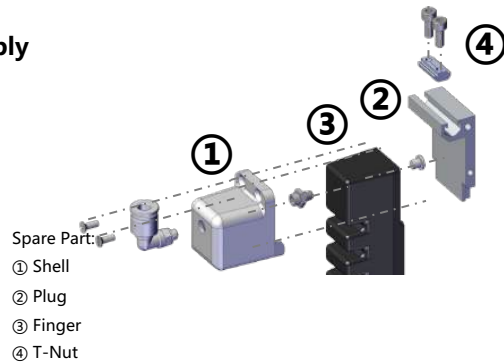
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

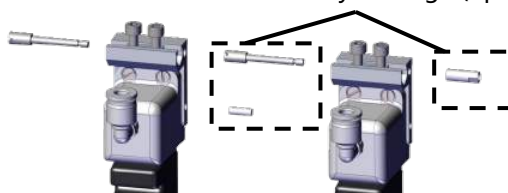


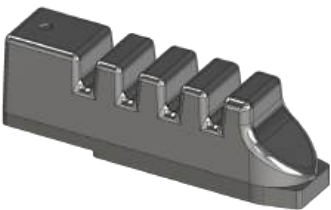
### Series combination:



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)



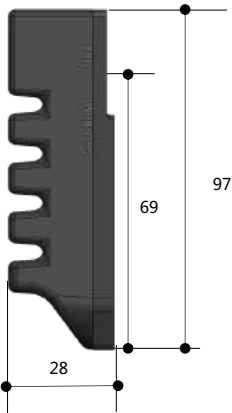
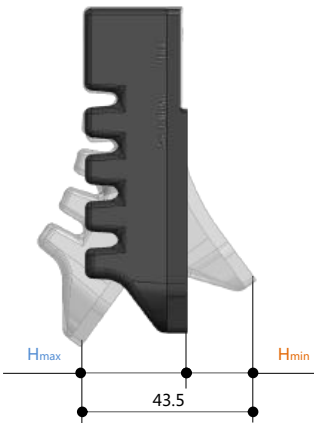


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-A5T/LS1[P]		F-A5T/LS1[PAS]			F-A5T/LS1[H]			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

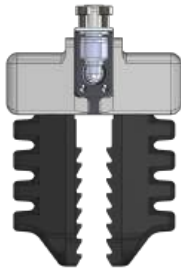


FM







## FM -A5V1 / LS8

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

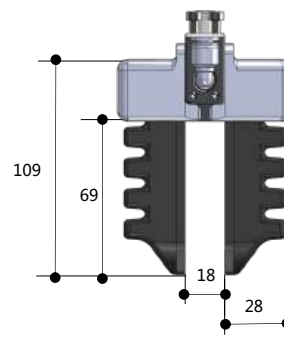
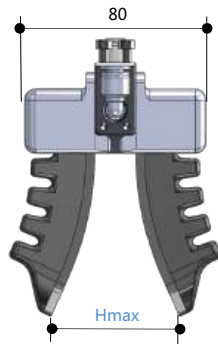
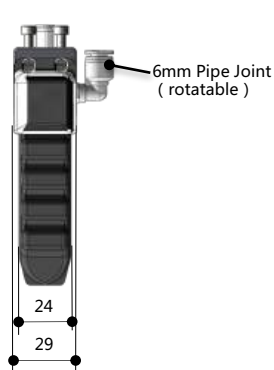
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V1/LS8[P]		FM-A5V1/LS8[PAS]			FM-A5V1/LS8[H]		FM-A5V1/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

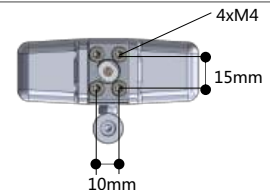
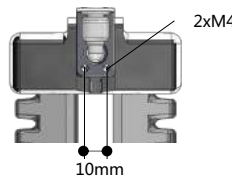


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

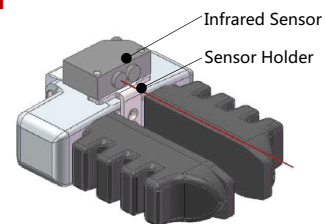
### Fixation



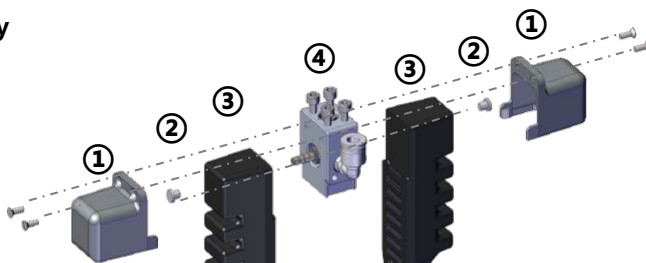
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A5V2 / LS8

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

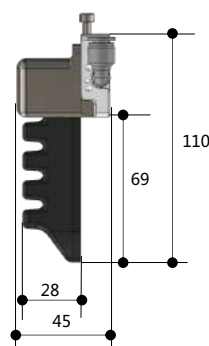
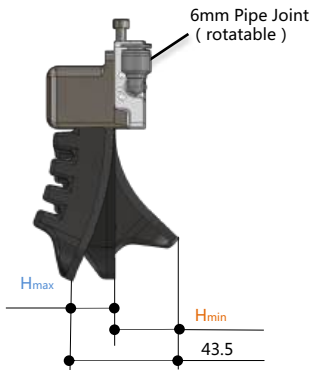
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V2/LS8[P]		FM-A5V2/LS8[PAS]			FM-A5V2/LS8[H]		FM-A5V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



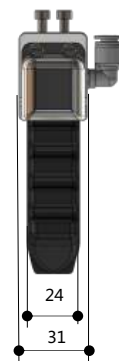
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



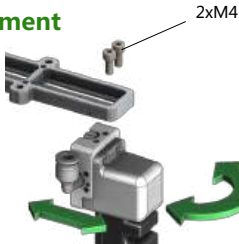
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



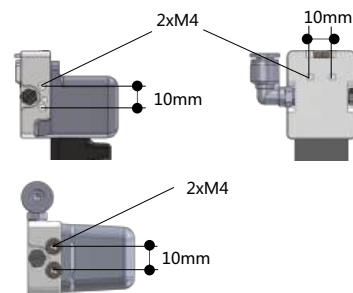
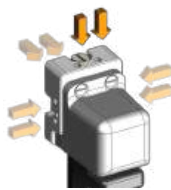
The measuring unit: [mm]



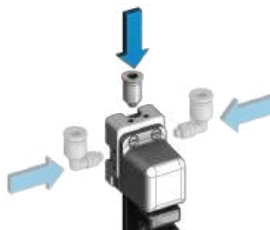
### Pose Adjustment



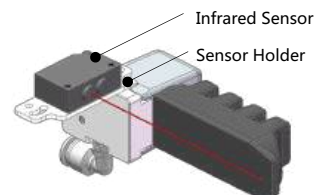
### Fixation



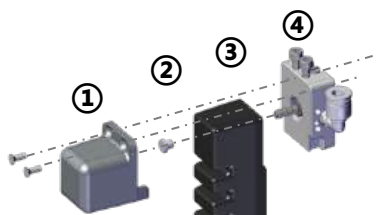
### Air Intake



### Sensor Installation



### Assembly



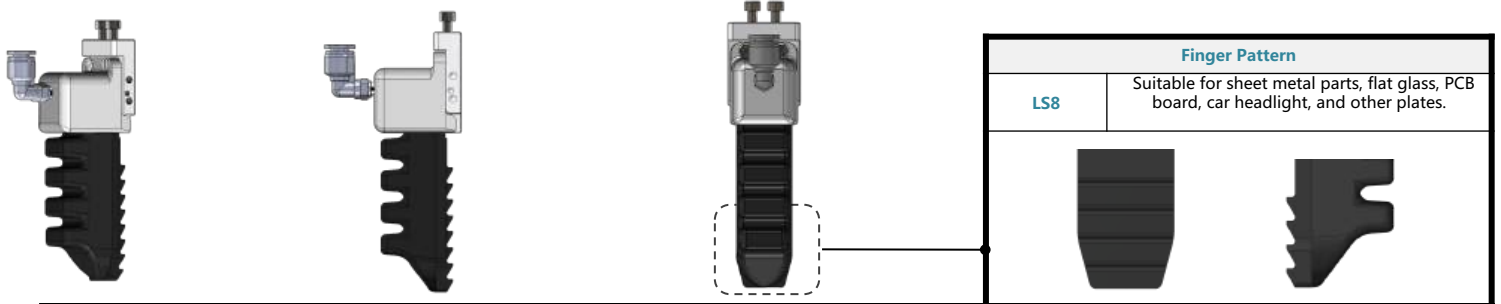
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A5V3 / LS8

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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

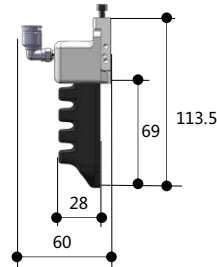
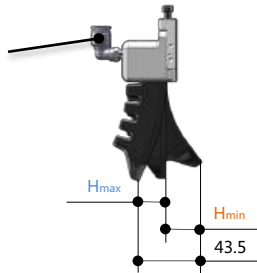


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

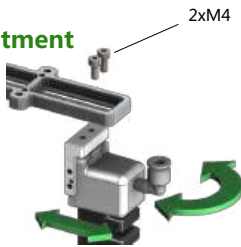


The measuring unit: [mm]

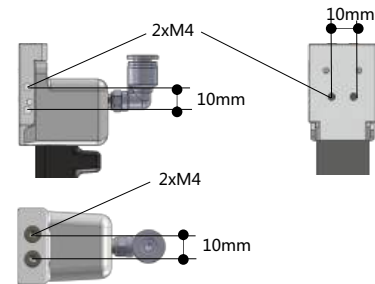


FM

### Pose Adjustment



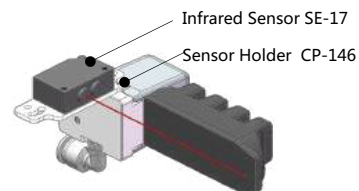
### Fixation



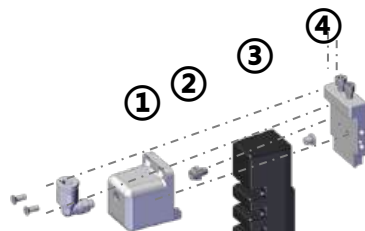
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -A5V4 / LS8

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

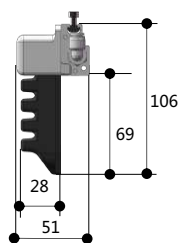
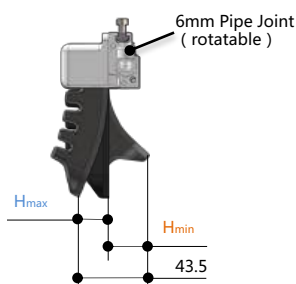
Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material	
FM-A5V4/LS8[P]		FM-A5V4/LS8[PAS]		FM-A5V4/LS8[H]		FM-A5V4/LS8[HAS]	
Finger color: Black							
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range ( P=250kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Recommended Load per Finger [g]
24.5	19	⚠ 120	280	111	24.5	16	⚠ 300
Finger color: Grey							
Positive Pressure Range ( P=250kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Recommended Load per Finger [g]
24.5	16	⚠ 300	400	111	24.5	19	⚠ 120



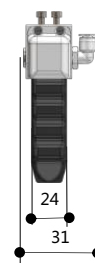
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



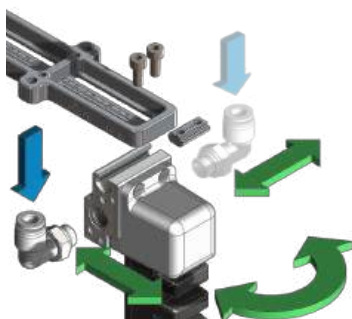
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



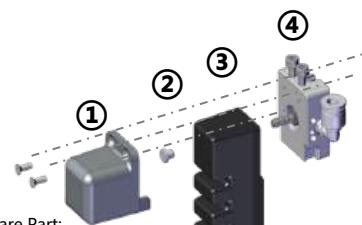
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

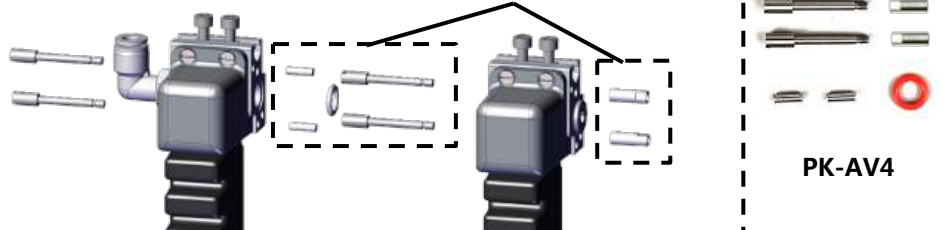
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

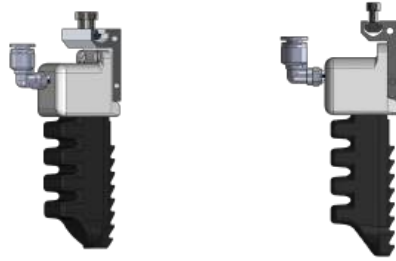
### PK-AV4 Accessory Package (optional)








## FM -A5V5 / 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-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		

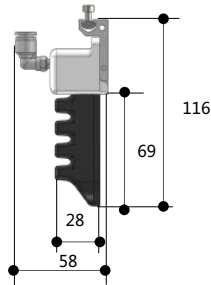
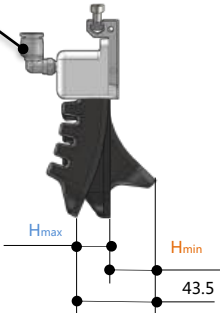


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

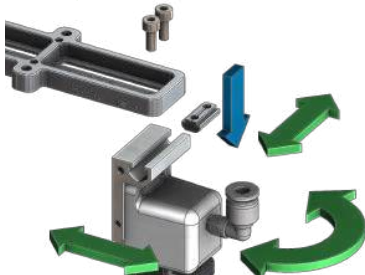
6mm Pipe Joint  
( rotatable )



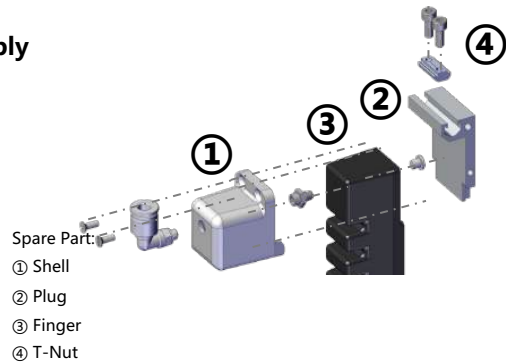
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

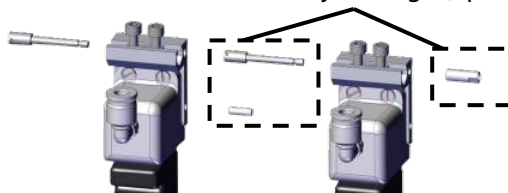


### Series combination:

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.

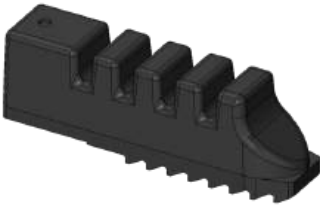
### PK-AV5 Accessory Package (optional)





F -A5T / LS8

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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



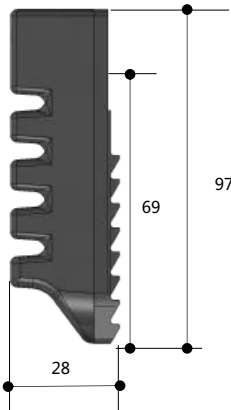
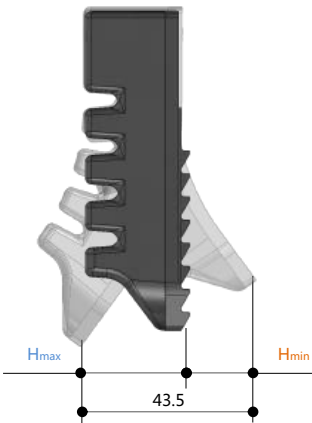
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

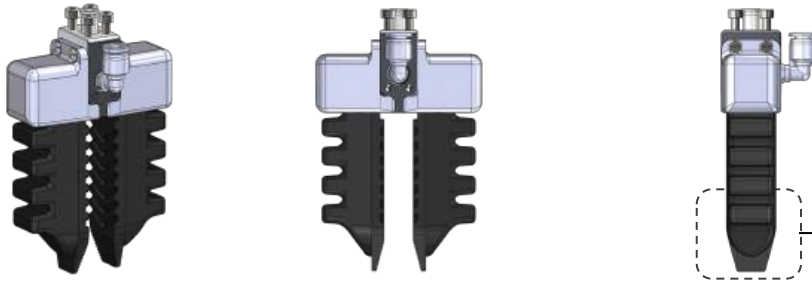
Dimension Parameters









## FM -A5V1 /FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

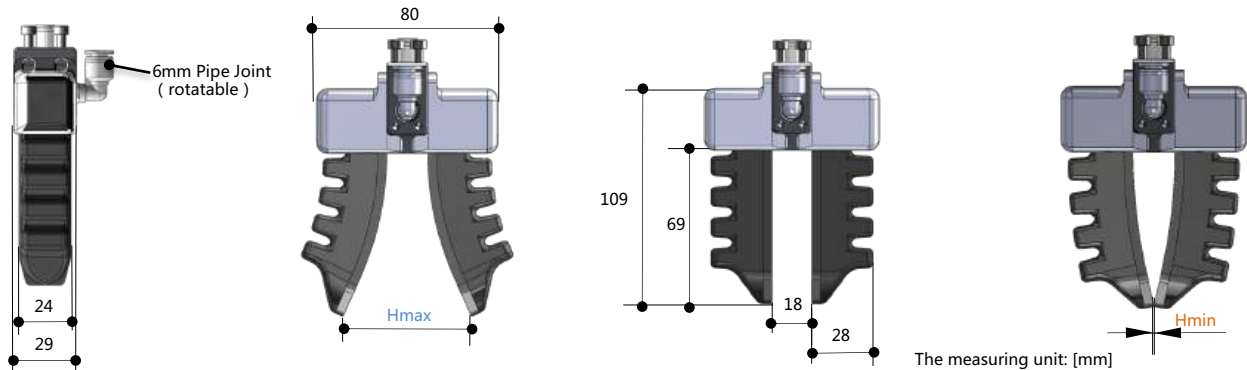
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V1/FS3[P]		FM-A5V1/FS3[PAS]			FM-A5V1/FS3[H]		FM-A5V1/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



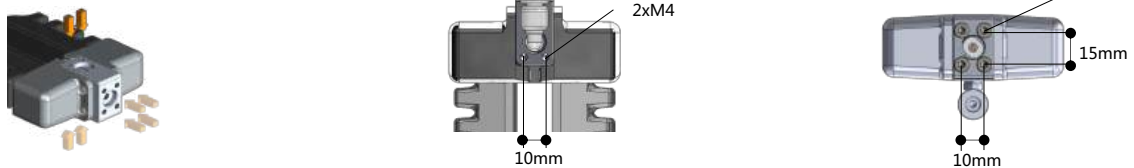
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



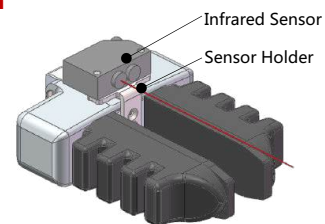
### Fixation



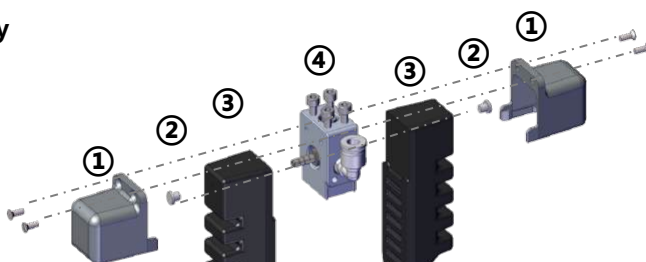
### Air Intake



### Sensor Installation



### Assembly



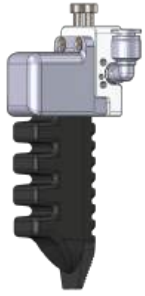
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A5V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

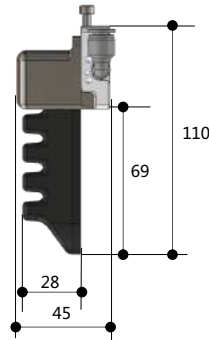
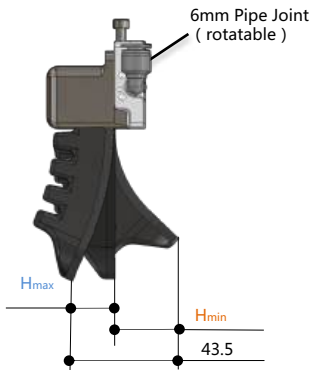
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V2/FS3[P]		FM-A5V2/FS3[PAS]			FM-A5V2/FS3[H]		FM-A5V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



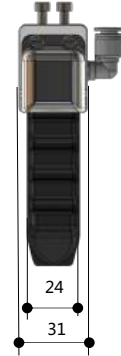
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



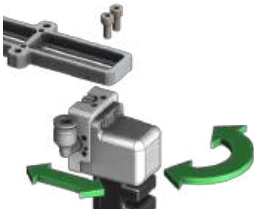
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



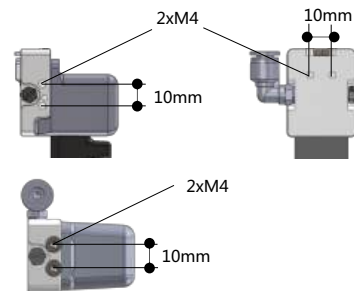
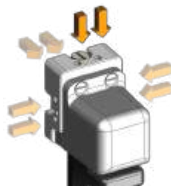
The measuring unit: [mm]



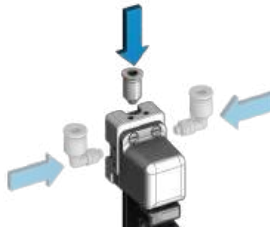
### Pose Adjustment



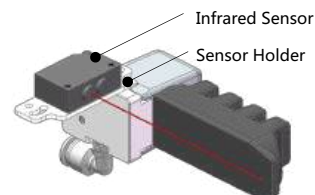
### Fixation



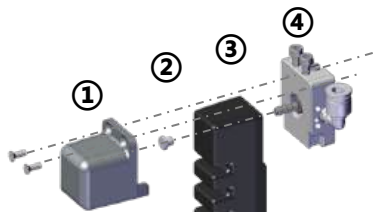
### Air Intake



### Sensor Installation



### Assembly



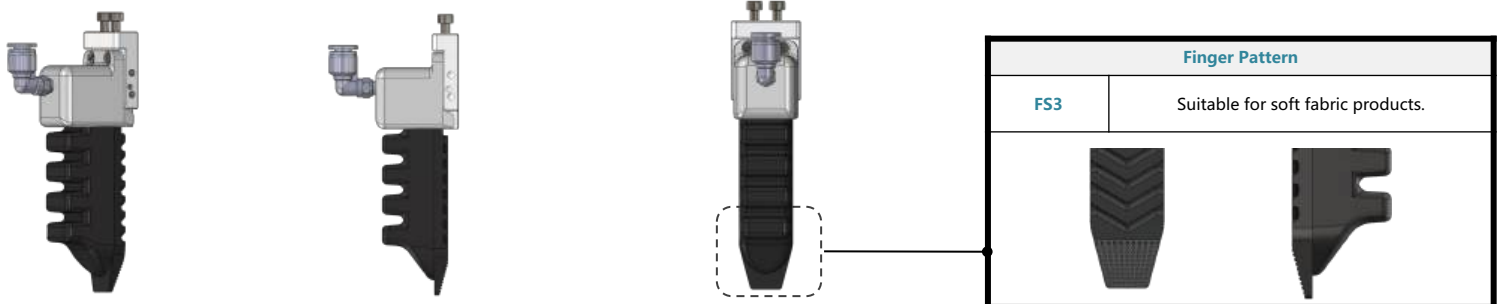
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A5V3 / 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-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

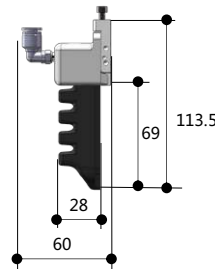
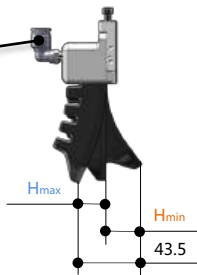


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]



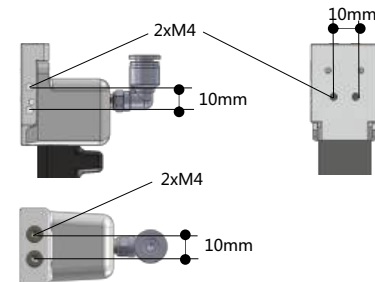
FM

### Pose Adjustment

Fix  
ati  
on



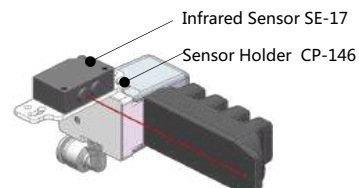
### Fixation



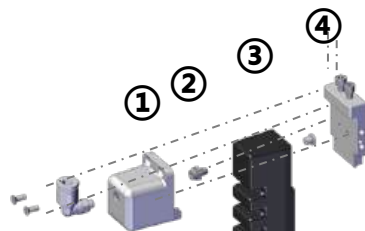
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

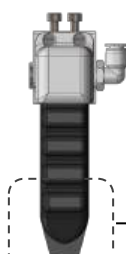
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A5V4 / FS3

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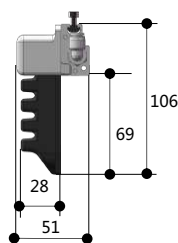
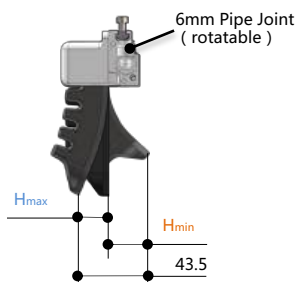


Finger Pattern	
FS3	Suitable for soft fabric products.

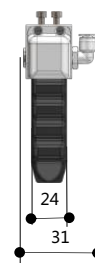
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V4/FS3[P]		FM-A5V4/FS3[PAS]			FM-A5V4/FS3[H]		FM-A5V4/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

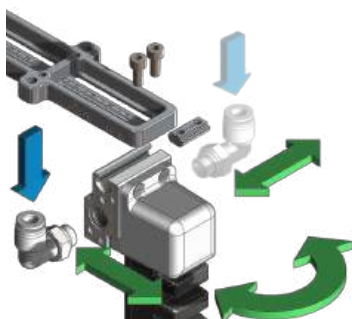
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



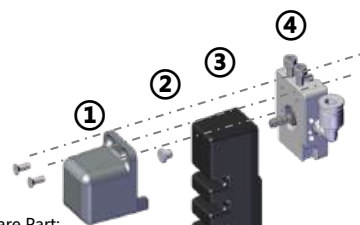
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



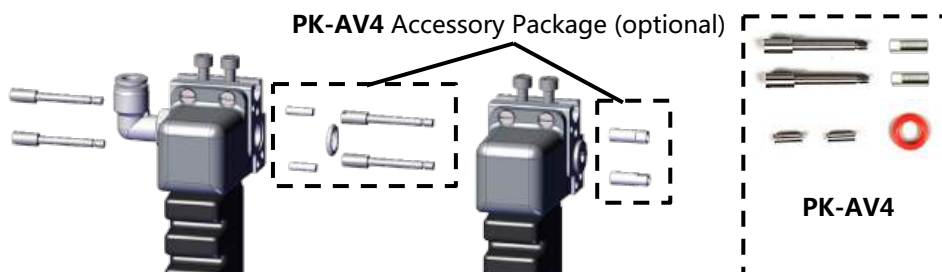
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

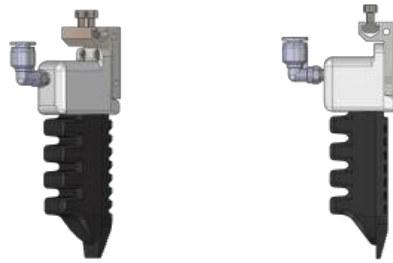
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







## FM -A5V5 / 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-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

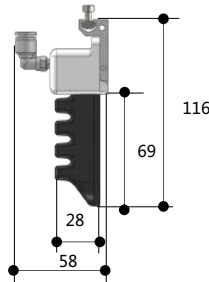
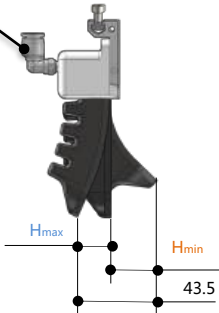


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

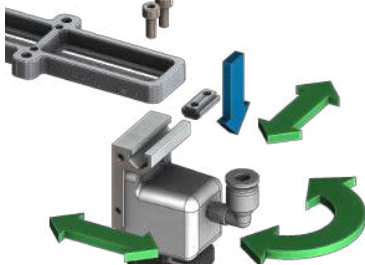
6mm Pipe Joint  
( rotatable )



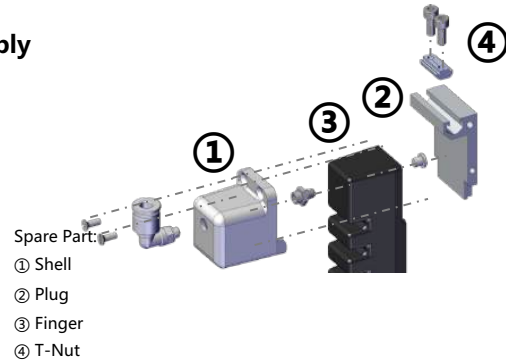
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

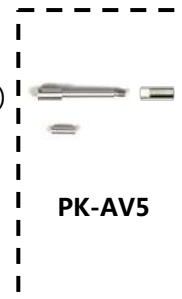
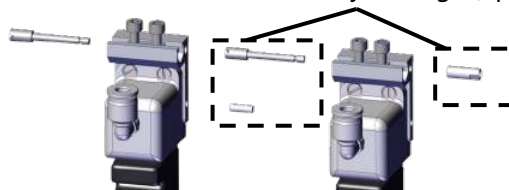


### Series combination:

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.

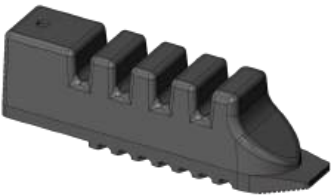
### PK-AV5 Accessory Package (optional)





F -A5T / FS3

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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	



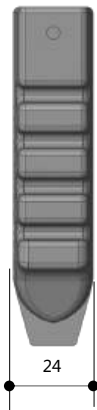
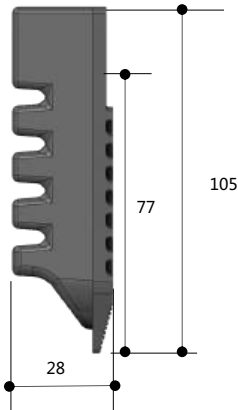
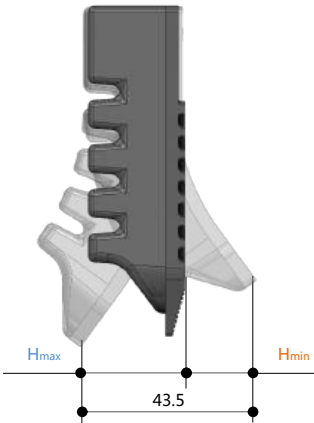
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

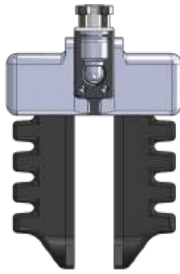
Dimension Parameters







## FM -A5V1 / LF1

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

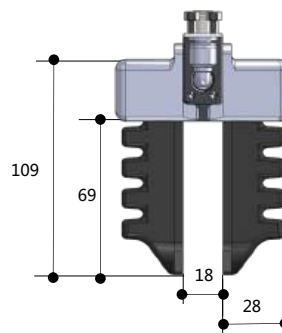
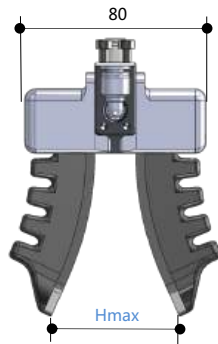
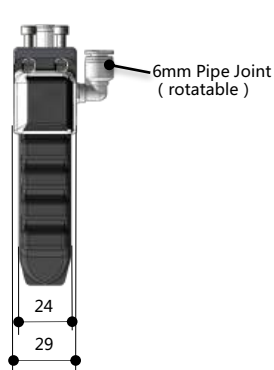
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A5V1/LF1[P]			FM-A5V1/LF1[PAS]			FM-A5V1/LF1[H]			FM-A5V1/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

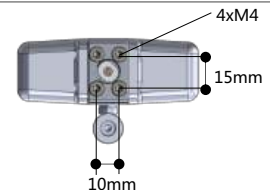
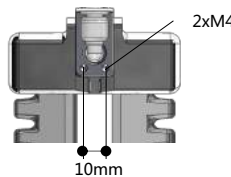


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

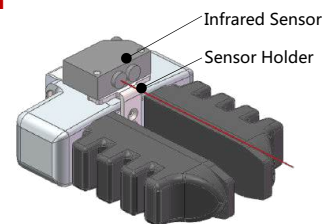
### Fixation



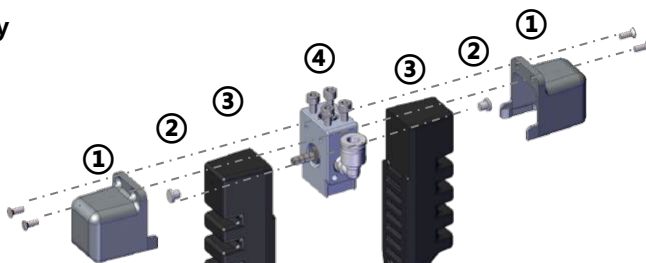
### Air Intake



### Sensor Installation



### Assembly



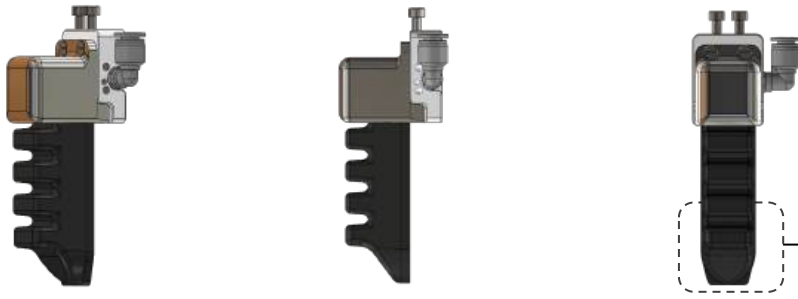
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -A5V2 / LF1

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

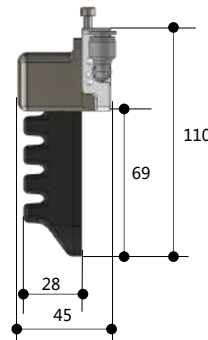
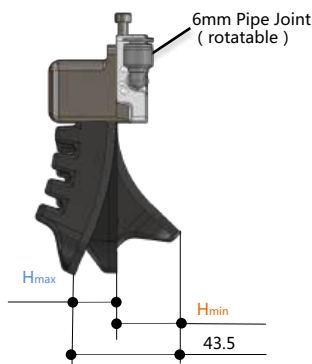
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V2/LF1[P]		FM-A5V2/LF1[PAS]			FM-A5V2/LF1[H]		FM-A5V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



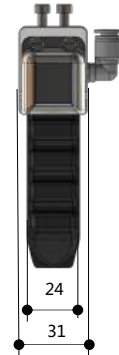
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



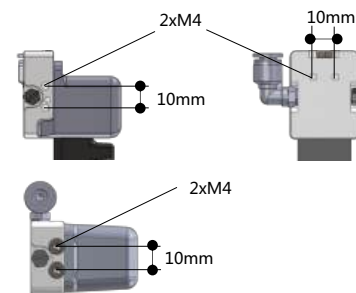
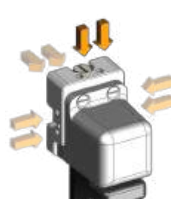
The measuring unit: [mm]



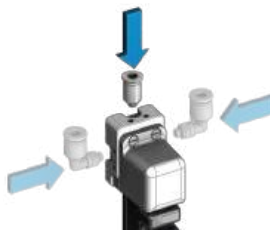
### Pose Adjustment



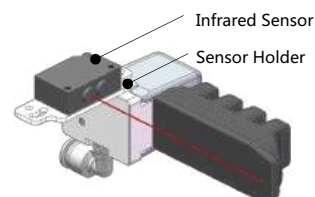
### Fixation



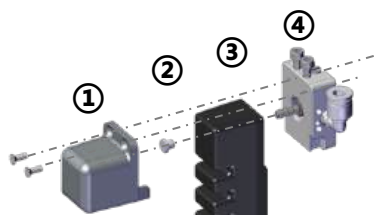
### Air Intake



### Sensor Installation



### Assembly



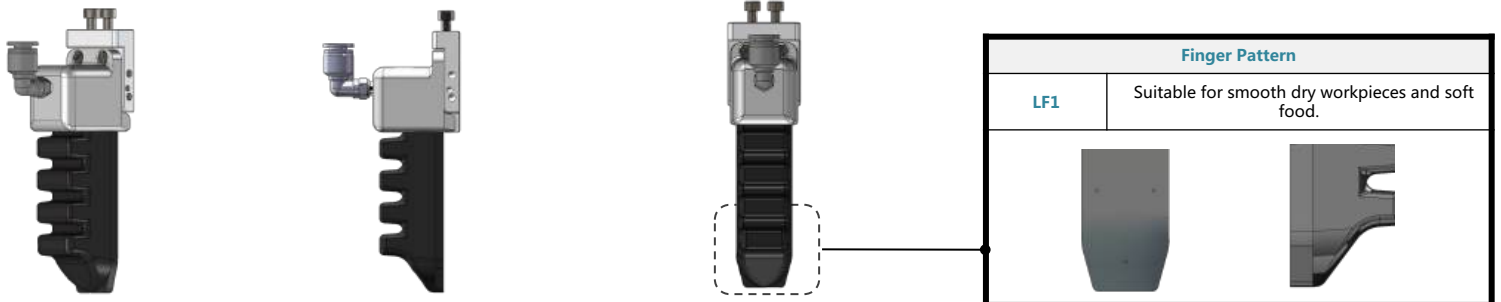
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A5V3 / LF1

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

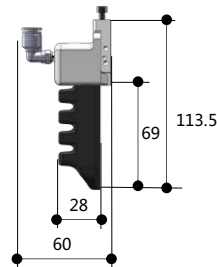
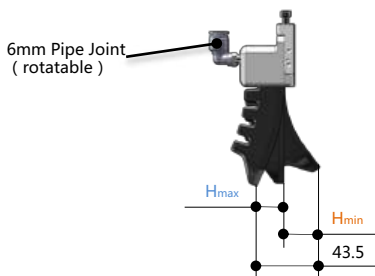
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A5V3/LF1[P]		FM-A5V3/LF1[PAS]			FM-A5V3/LF1[H]		FM-A5V3/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



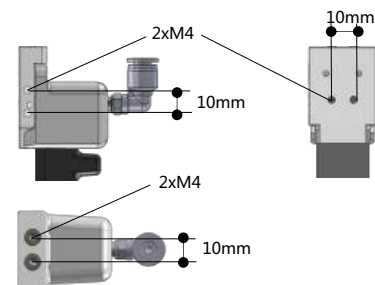
The measuring unit: [mm]



### Pose Adjustment



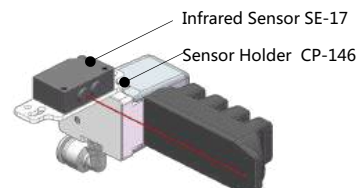
### Fixation



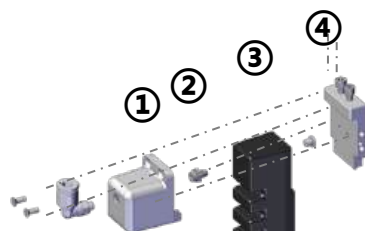
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

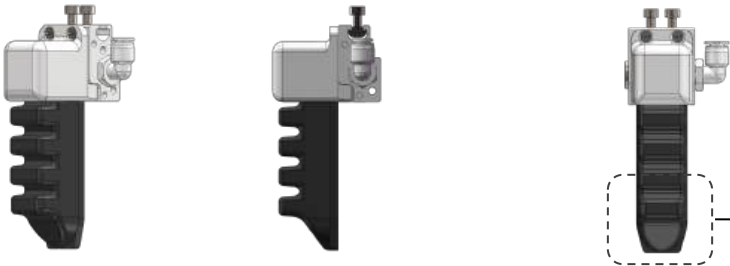









- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





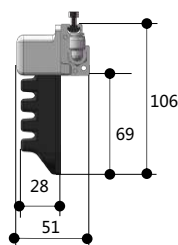
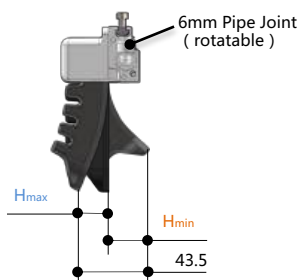
## FM -A5V4 / LF1

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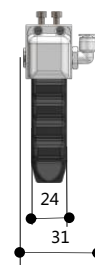
			<table><tr><th colspan="2">Finger Pattern</th></tr><tr><td>LF1</td><td>Suitable for smooth dry workpieces and soft food.</td></tr><tr><td colspan="2"></td></tr></table>		Finger Pattern		LF1	Suitable for smooth dry workpieces and soft food.		
Finger Pattern										
LF1	Suitable for smooth dry workpieces and soft food.									
										
Normal Material <b>FM-A5V4/LF1[P]</b>		Dust-free Normal Material <b>FM-A5V4/LF1[PAS]</b>		Strong Material <b>FM-A5V4/LF1[H]</b>		Dust-free Strong Material <b>FM-A5V4/LF1[HAS]</b>				
Finger color: Black					Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	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.					

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

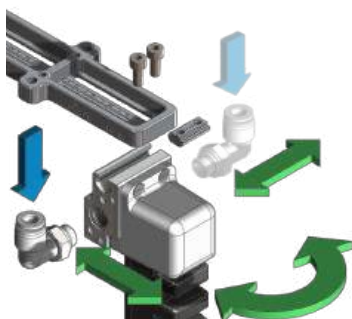
📏 The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



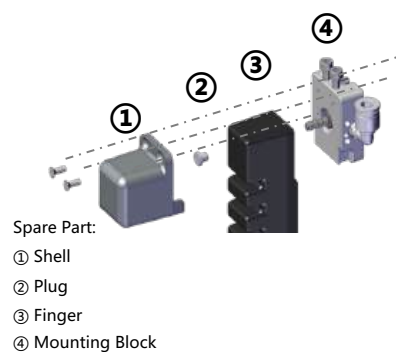
The measuring unit: [mm]



### Air Intake & Pose Adjustment



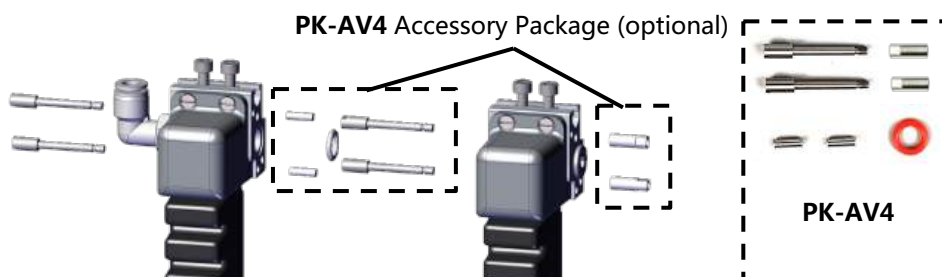
### Assembly



### 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.

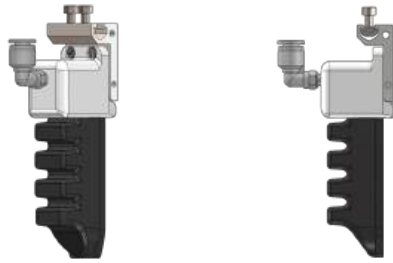
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







## FM -A5V5 / LF1

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

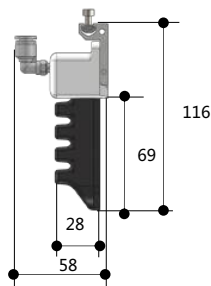
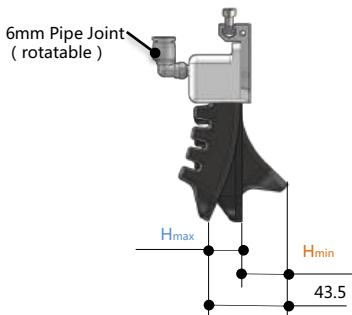
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A5V5/LF1[P]			FM-A5V5/LF1[PAS]			FM-A5V5/LF1[H]			FM-A5V5/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

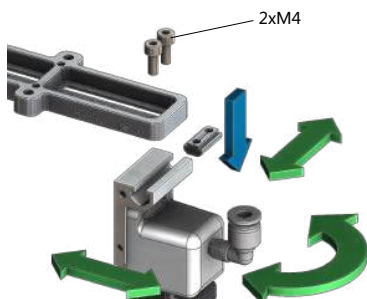


The measuring unit: [mm]

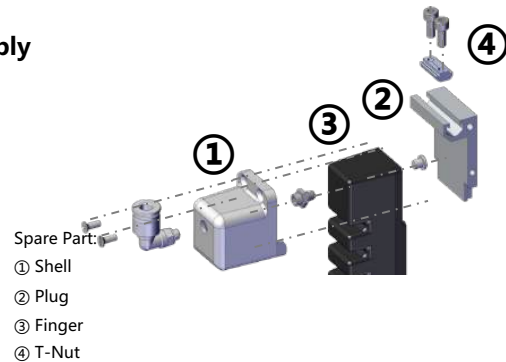


FM

Air Intake & Pose Adjustment



### Assembly



### 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.

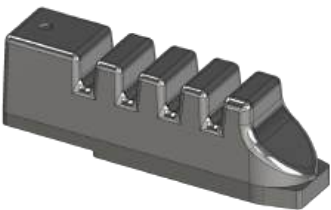
### PK-AV5 Accessory Package (optional)





F -A5T / LF1

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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	



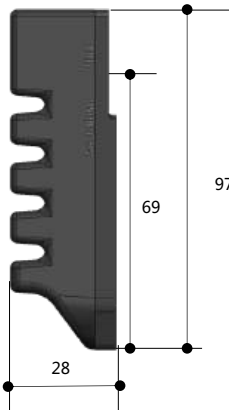
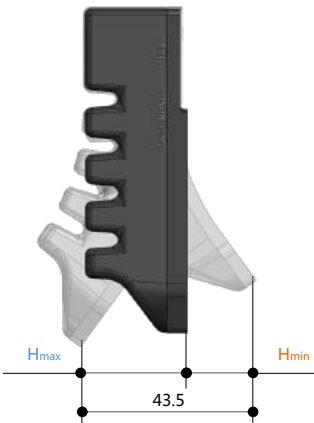
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

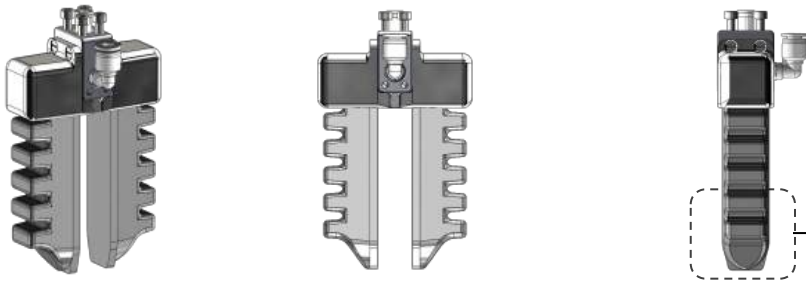
Dimension Parameters









## FM -A6V1 / 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-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

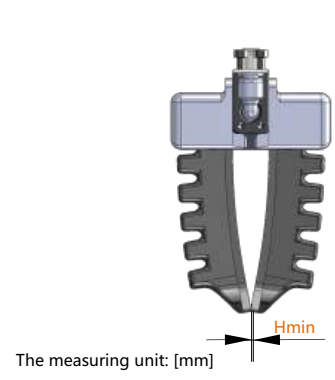
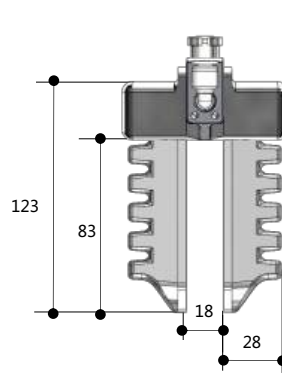
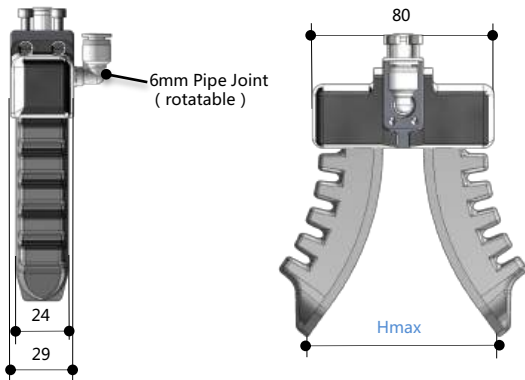


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



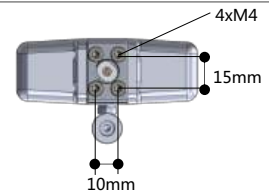
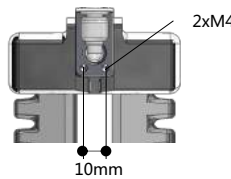
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

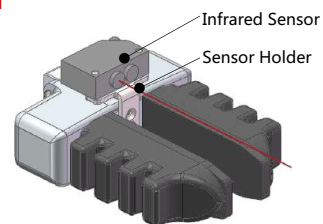
### Fixation



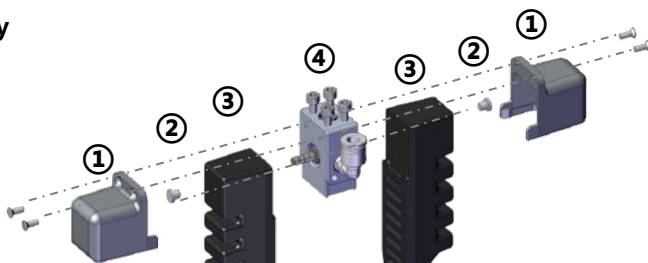
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A6V2 / LS1

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

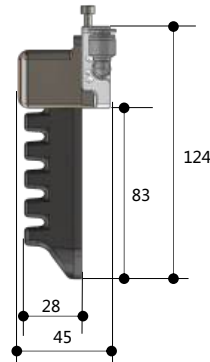
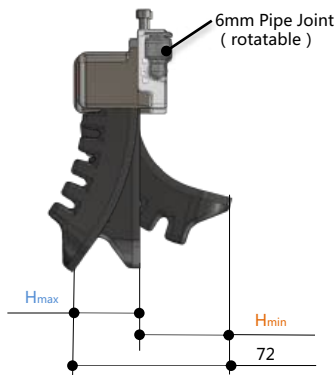
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V2/LS1[P]			FM-A6V2/LS1[PAS]			FM-A6V2/LS1[H]			FM-A6V2/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



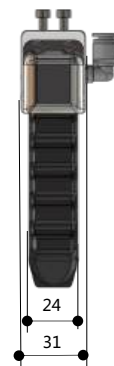
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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]

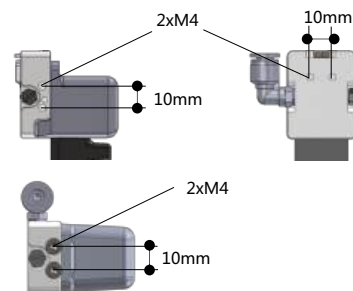
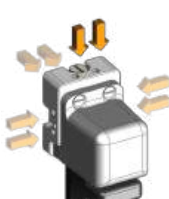


### Pose Adjustment

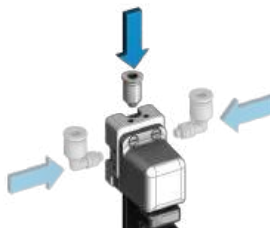
Fixation



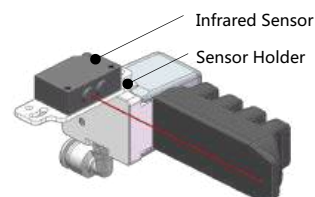
### Fixation



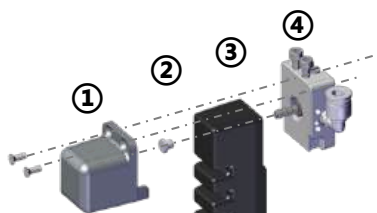
### Air Intake



### Sensor Installation



### Assembly



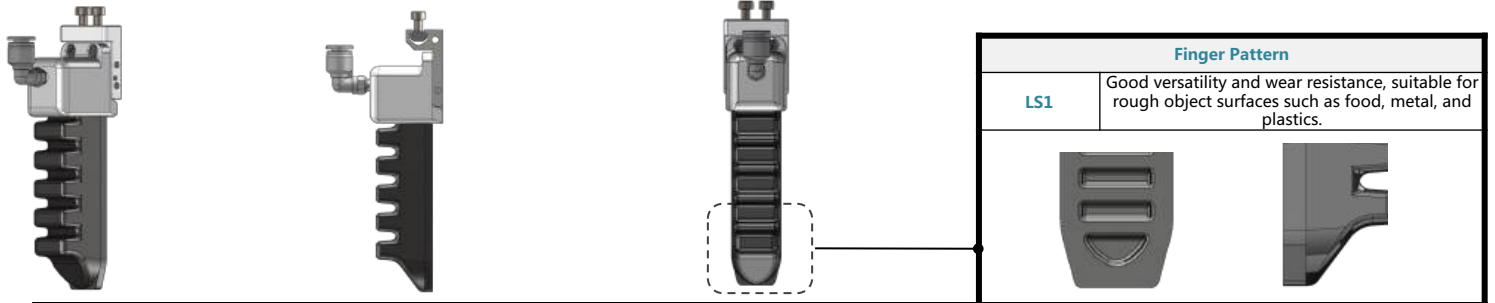
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A6V3 / LS1

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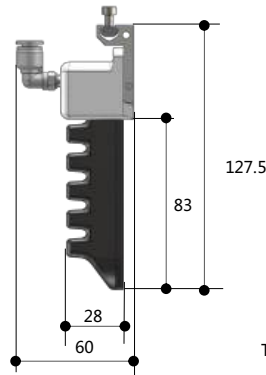
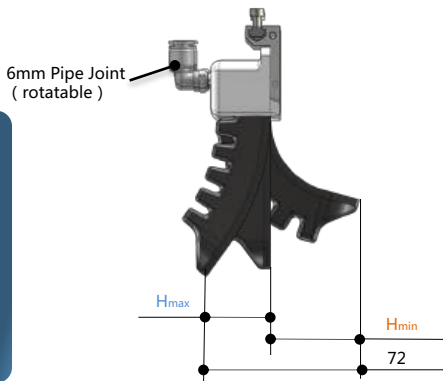
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V3/LS1[P]		FM-A6V3/LS1[PAS]			FM-A6V3/LS1[H]		FM-A6V3/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



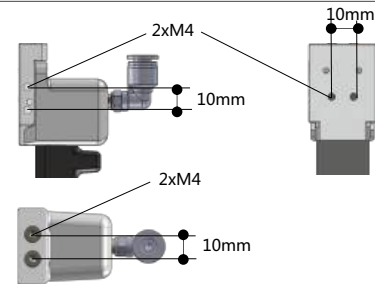
The measuring unit: [mm]



### Pose Adjustment



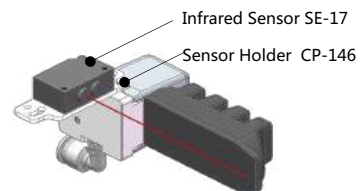
### Fixation



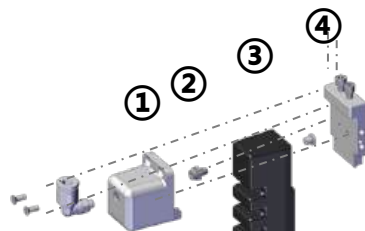
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

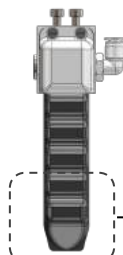
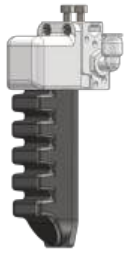
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A6V4 / LS1

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

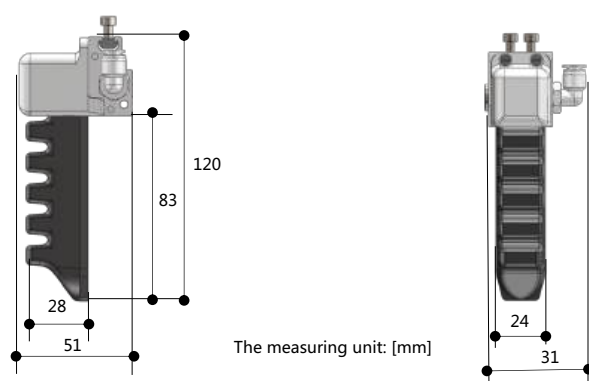
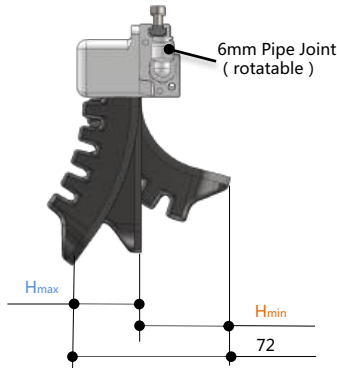
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V4/LS1[P]		FM-A6V4/LS1[PAS]			FM-A6V4/LS1[H]		FM-A6V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

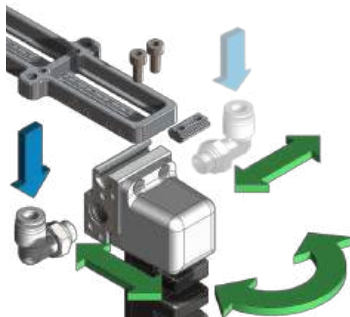


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

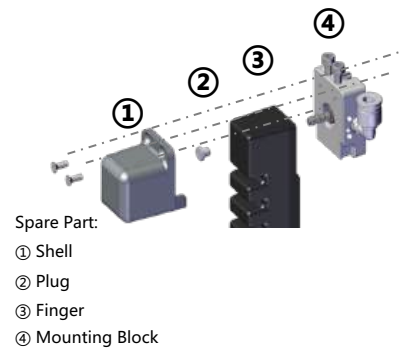


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

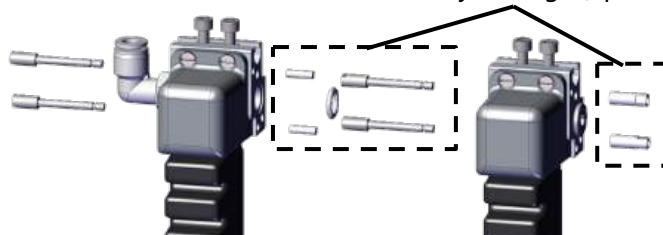


### Series combination:

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 -A6V5 / LS1

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

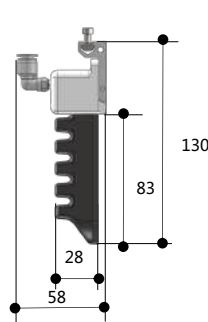
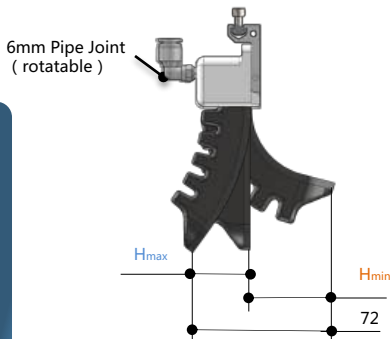
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V5/LS1[P]			FM-A6V5/LS1[PAS]			FM-A6V5/LS1[H]			FM-A6V5/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.



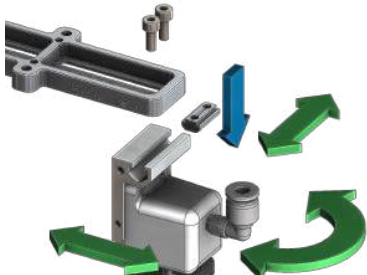
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



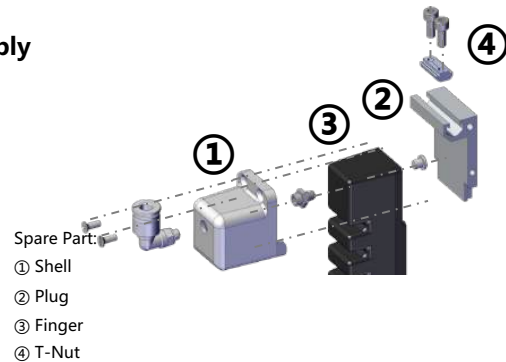
The measuring unit: [mm]



### Air Intake & Pose Adjustment



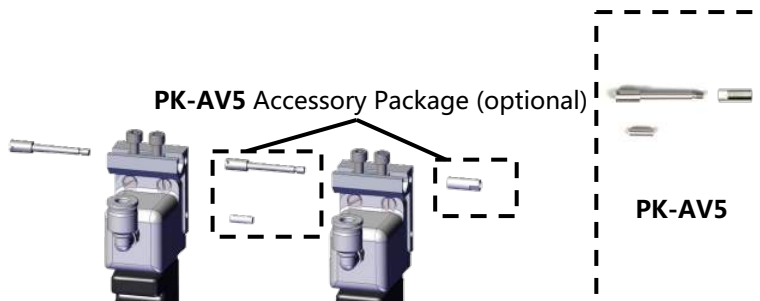
### Assembly



### 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.

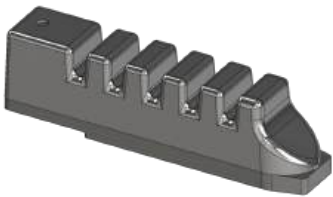
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





F -A6T / LS1

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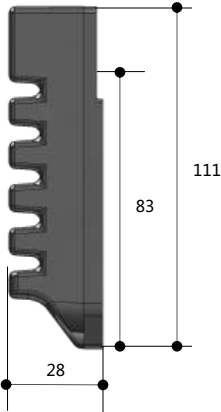
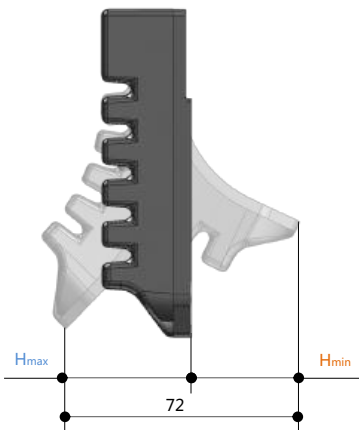


Finger Pattern			Features							
LS1	Standard form		Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.							
Normal Material			Dust-free Normal Material			Strong Material		Dust-free Strong Material		
F-A6T/LS1[P]			F-A6T/LS1[PAS]			F-A6T/LS1[H]		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	📦 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.

Dimension Parameters

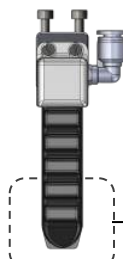


FM







## FM -A6V1 / 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-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

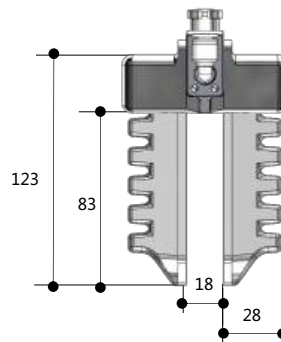
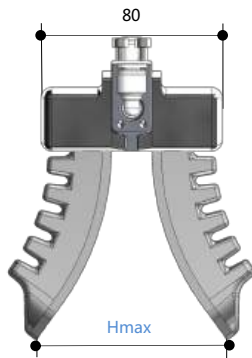
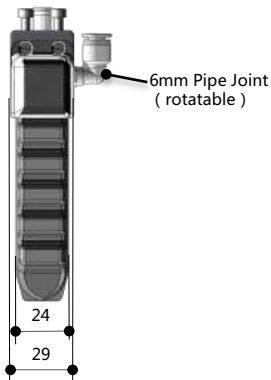


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



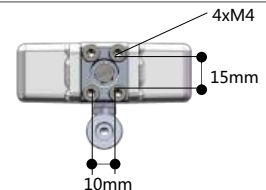
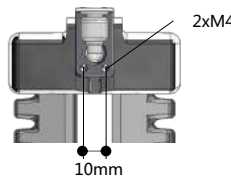
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

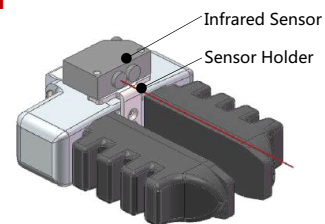
### Fixation



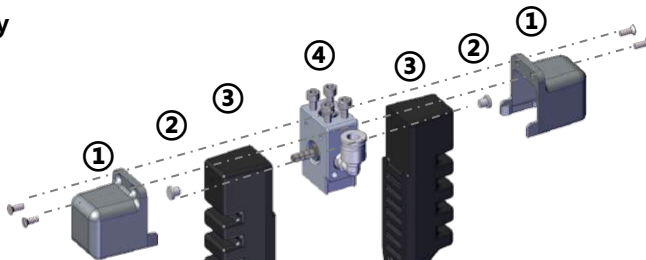
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A6V2 / LS8

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

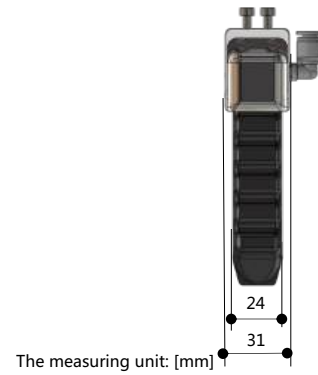
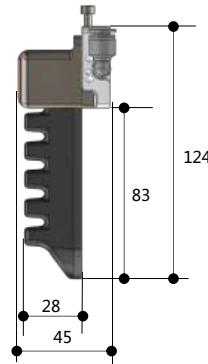
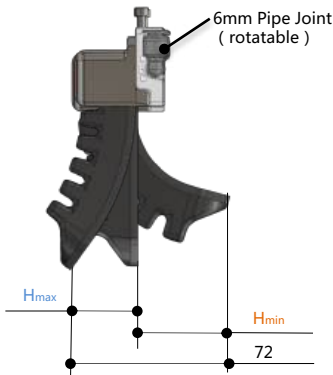
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V2/LS8[P]		FM-A6V2/LS8[PAS]			FM-A6V2/LS8[H]		FM-A6V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

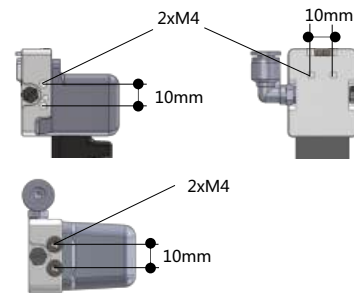
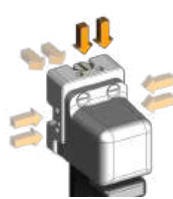


The measuring unit: [mm]

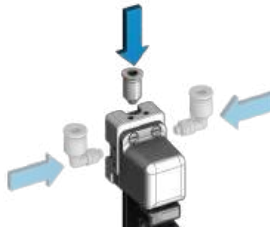
### Pose Adjustment



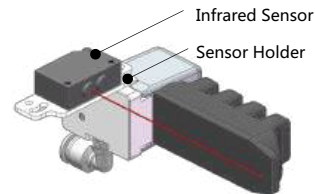
### Fixation



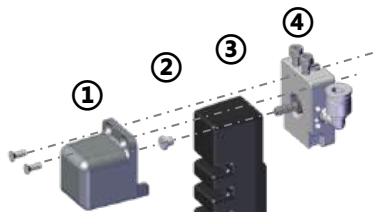
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block






## FM -A6V3 / 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-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		

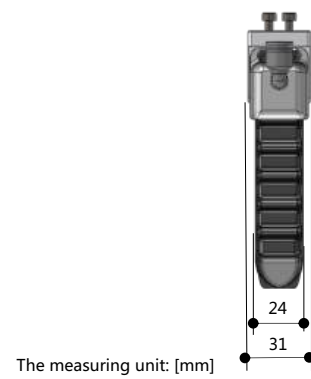
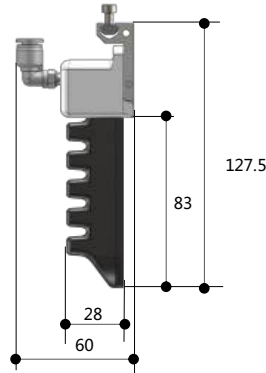
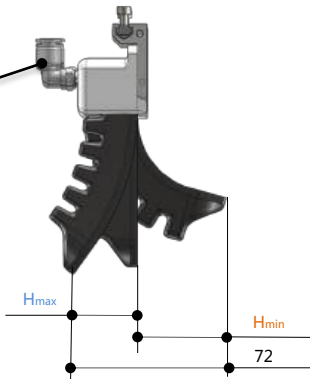


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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 )

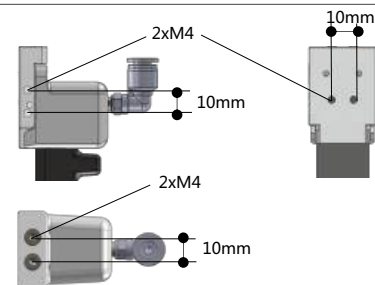
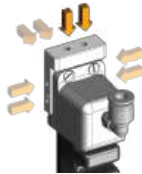


The measuring unit: [mm]

### Pose Adjustment



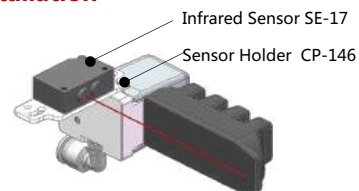
### Fixation



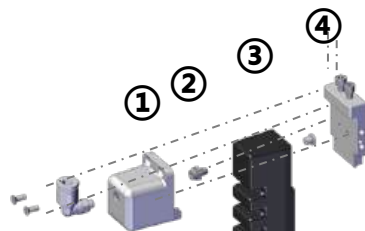
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A6V4 / LS8

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

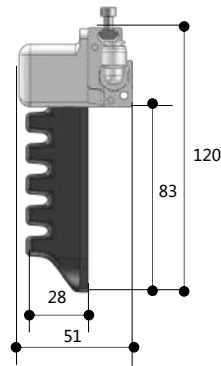
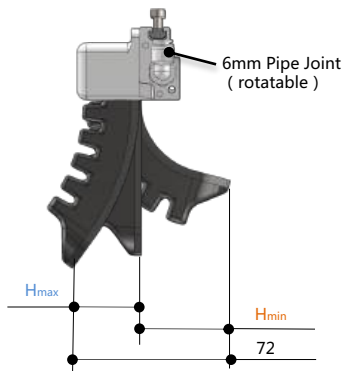
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V4/LS8[P]		FM-A6V4/LS8[PAS]			FM-A6V4/LS8[H]		FM-A6V4/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



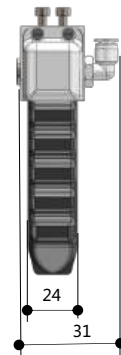
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



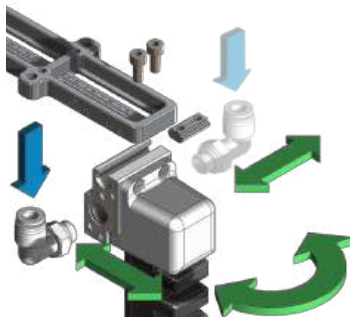
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



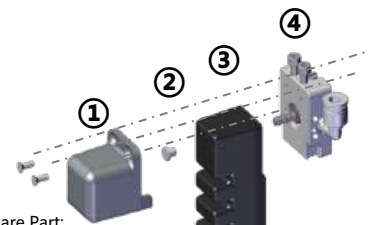
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

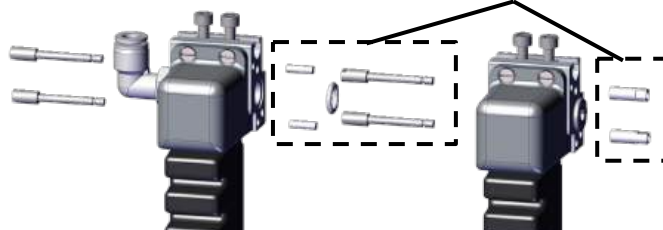
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

### PK-BV4 Accessory Package (optional)









## FM -A6V5 / LS8

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

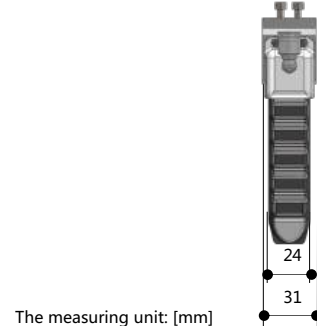
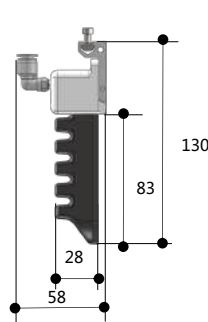
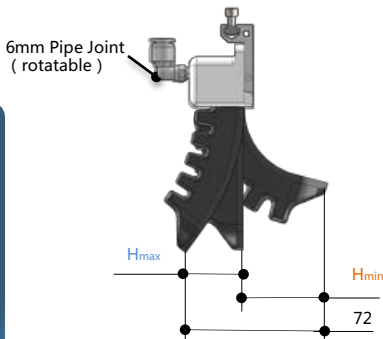
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V5/LS8[P]			FM-A6V5/LS8[PAS]			FM-A6V5/LS8[H]			FM-A6V5/LS8[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

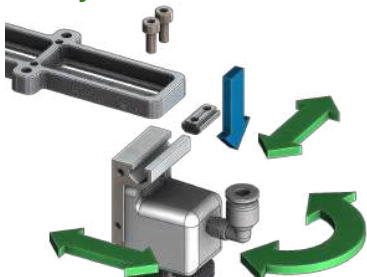


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

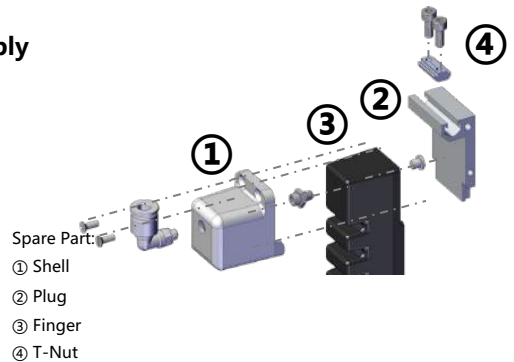


The measuring unit: [mm]

### Air Intake & Pose Adjustment



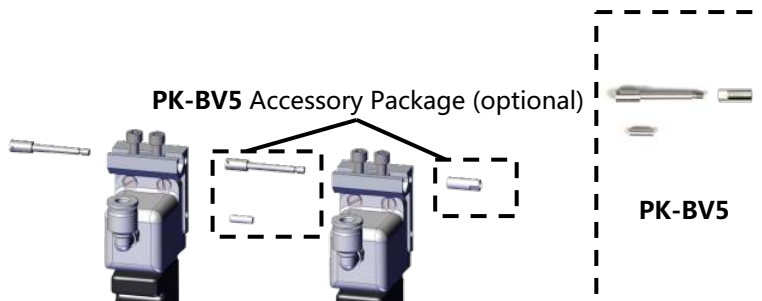
### Assembly



### 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.

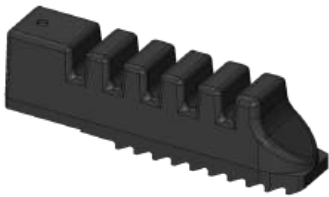
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





F -A6T / LS8

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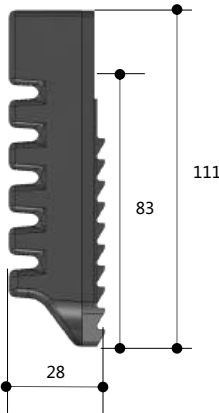
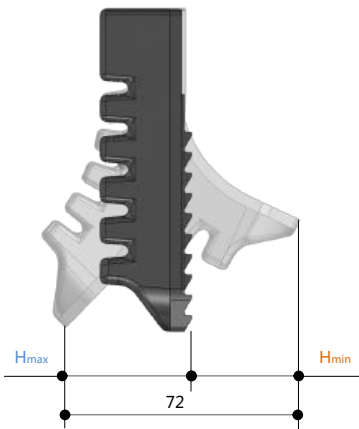


Finger Pattern		Features								
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-A6T/LS8[P]		F-A6T/LS8[PAS]			F-A6T/LS8[H]			F-A6T/LS8[HAS]		
Finger 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.

Dimension Parameters

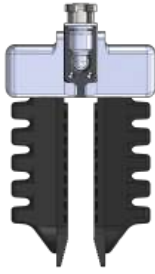
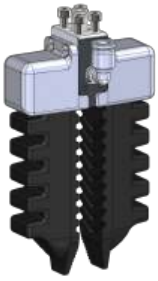


FM







## FM -A6V1 / 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-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

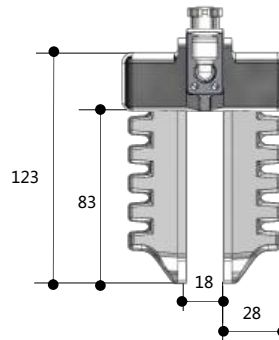
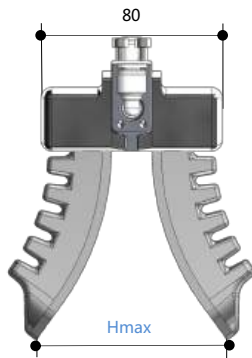
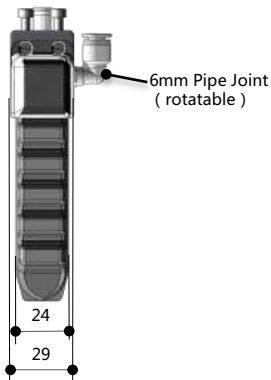


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

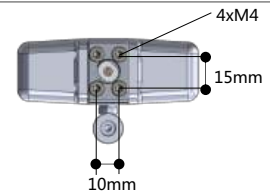
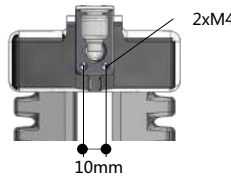
FM



The measuring unit: [mm]



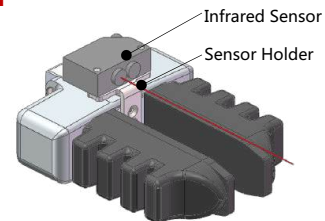
### Fixation



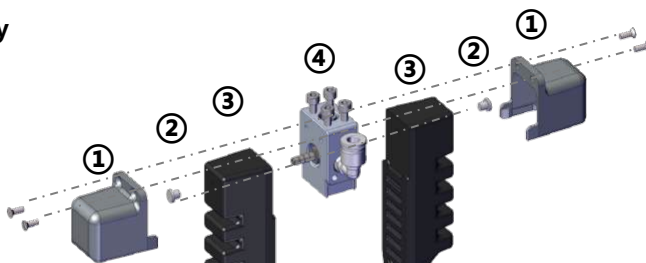
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A6V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

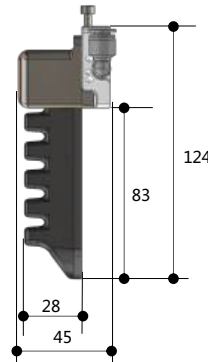
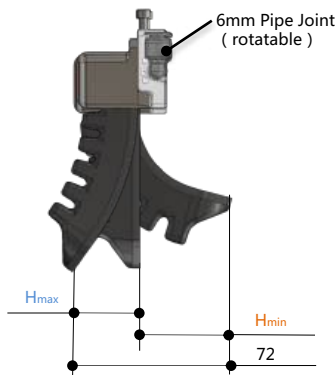
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V2/FS3[P]		FM-A6V2/FS3[PAS]			FM-A6V2/FS3[H]		FM-A6V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



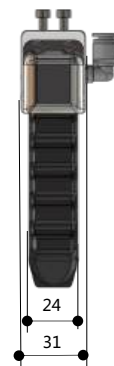
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



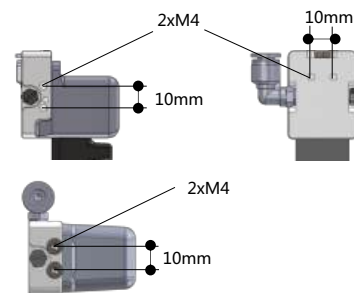
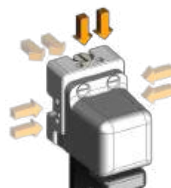
The measuring unit: [mm]



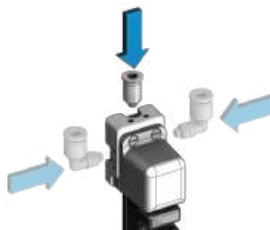
### Pose Adjustment



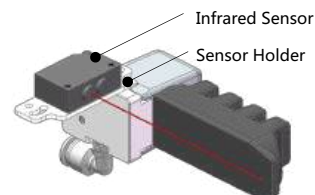
### Fixation



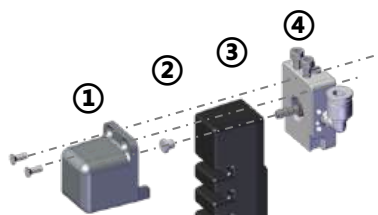
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A6V3 / FS3

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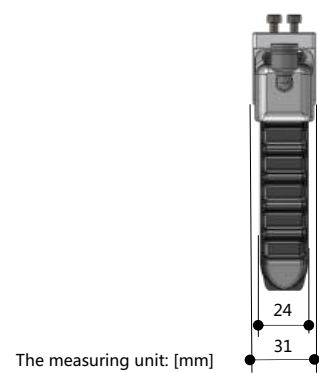
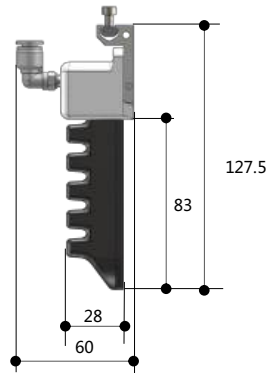
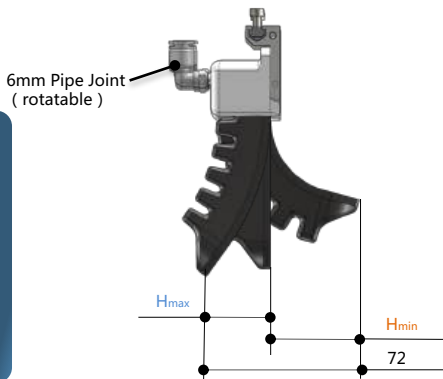
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V3/FS3[P]			FM-A6V3/FS3[PAS]			FM-A6V3/FS3[H]			FM-A6V3/FS3[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.



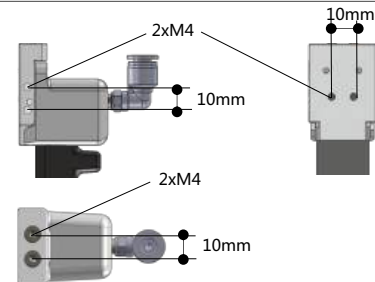
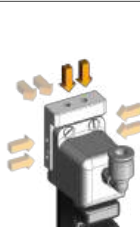
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



### Pose Adjustment



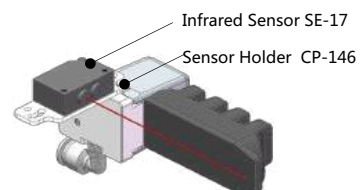
### Fixation



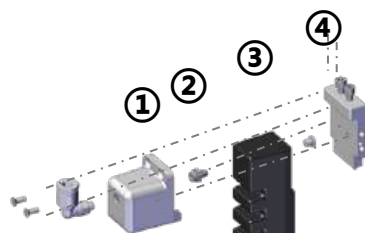
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

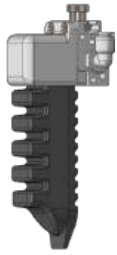
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A6V4 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

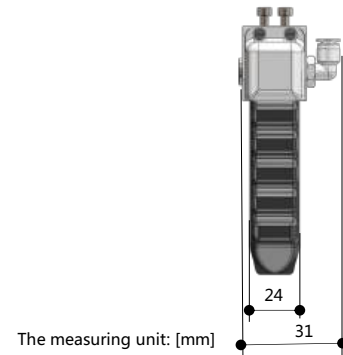
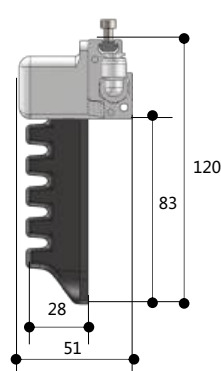
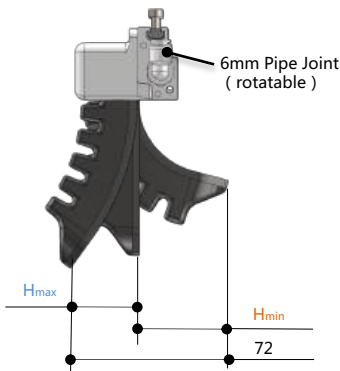
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V4/FS3[P]			FM-A6V4/FS3[PAS]			FM-A6V4/FS3[H]			FM-A6V4/FS3[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

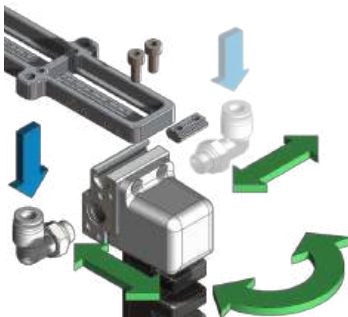


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

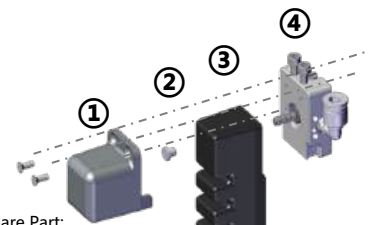


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



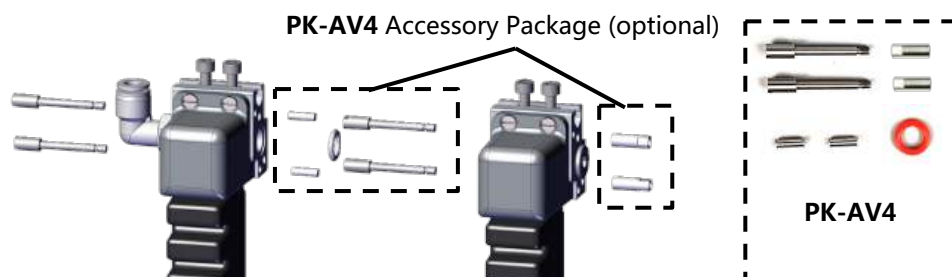
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.





## FM -A6V5 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

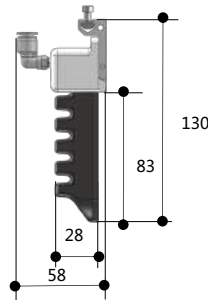
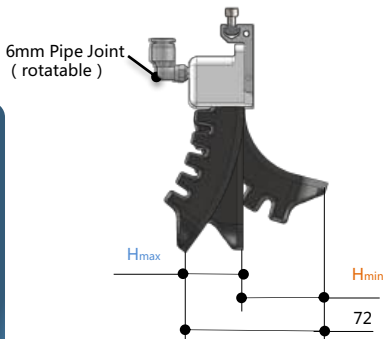
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V5/FS3[P]			FM-A6V5/FS3[PAS]			FM-A6V5/FS3[H]			FM-A6V5/FS3[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.



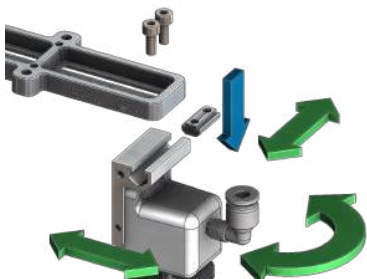
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



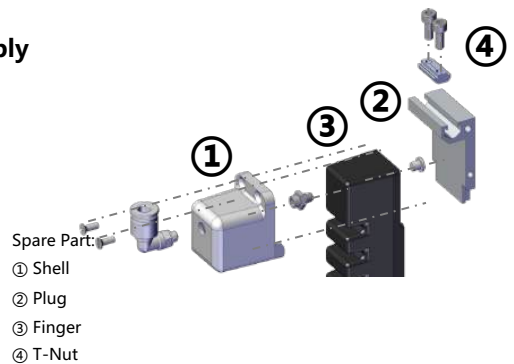
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

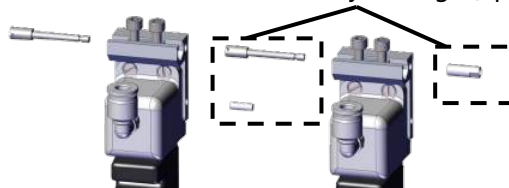


### Series combination:

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.

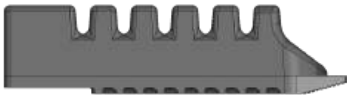
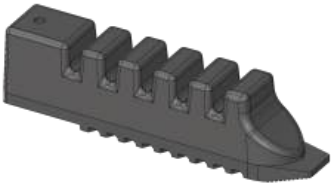
### PK-AV5 Accessory Package (optional)





F -A6T / FS3

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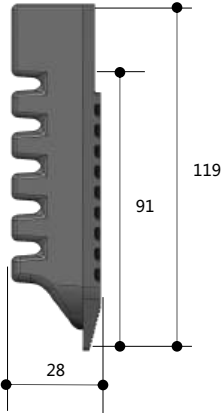
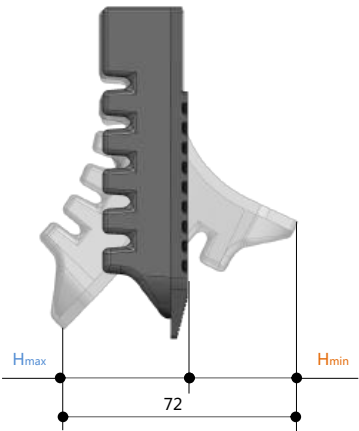


Finger Pattern			Features						
FS3	Special Form		Suitable for soft fabric products.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-A6T/FS3[P]			F-A6T/FS3[PAS]		F-A6T/FS3[H]			F-A6T/FS3[HAS]	
Finger color: Black					Finger color: Grey				
Positive Pressure 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.

Dimension Parameters





FM







## FM -A6V1 / 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-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

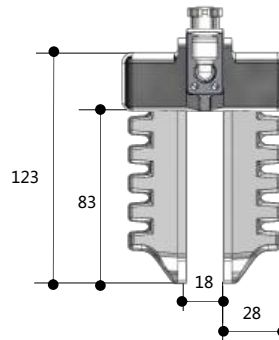
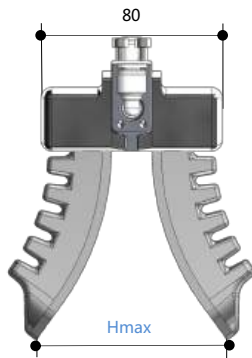
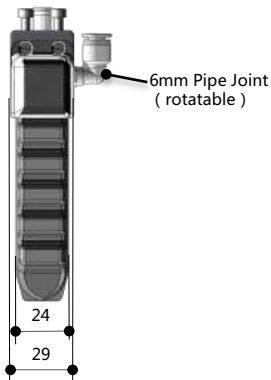


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

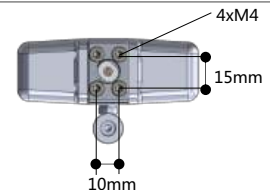
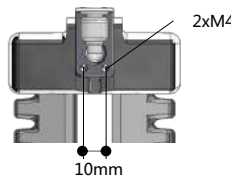
FM



The measuring unit: [mm]



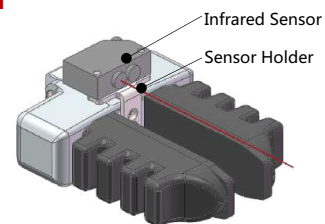
### Fixation



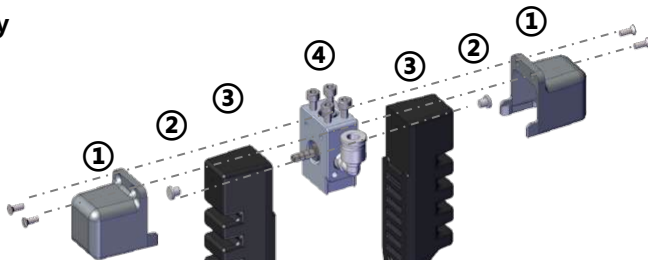
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A6V2 / LF1

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

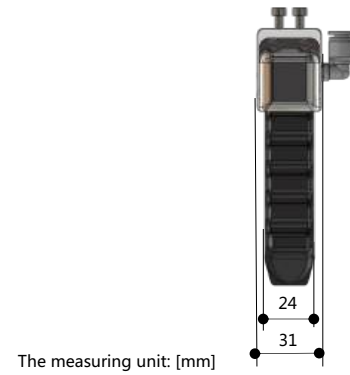
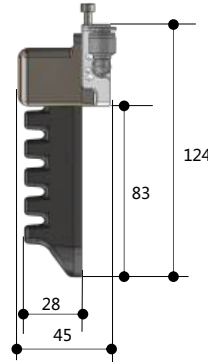
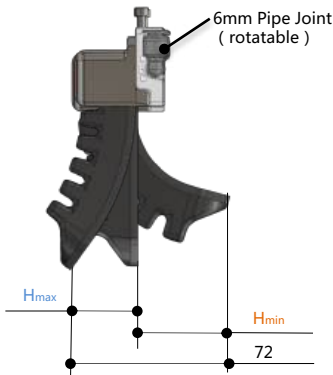
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V2/LF1[P]		FM-A6V2/LF1[PAS]			FM-A6V2/LF1[H]		FM-A6V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

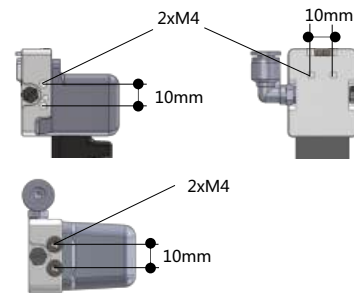
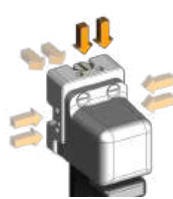


The measuring unit: [mm]

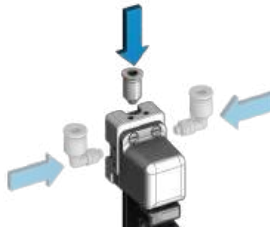
### Pose Adjustment



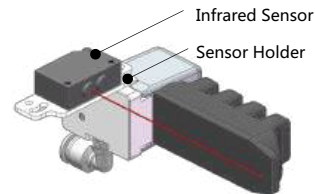
### Fixation



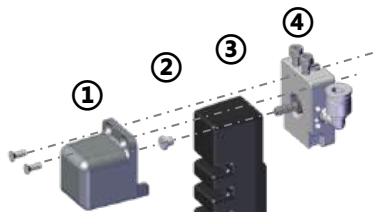
### Air Intake



### Sensor Installation



### Assembly



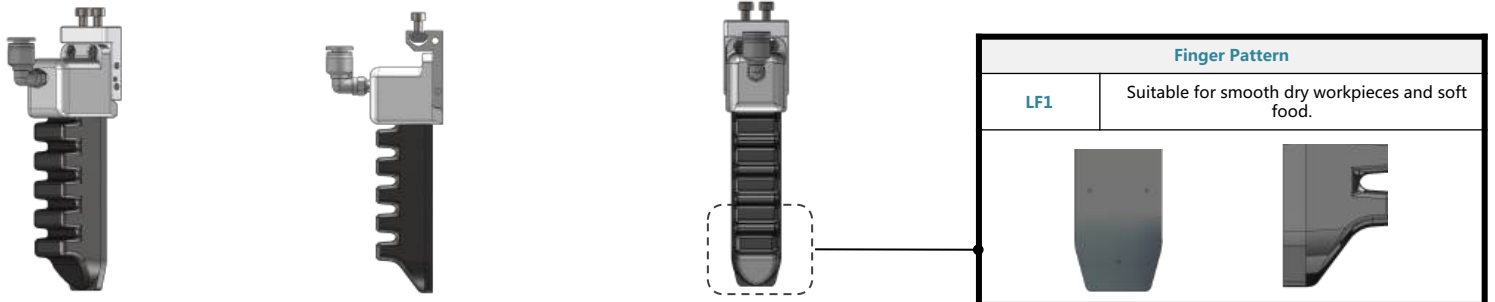
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A6V3 / LF1

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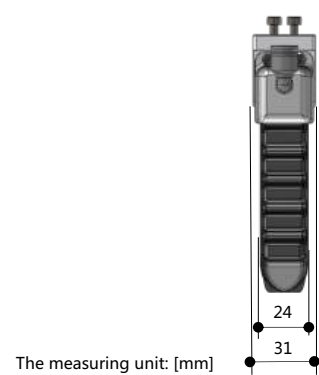
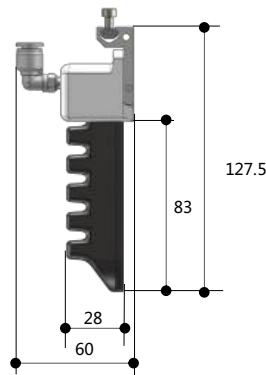
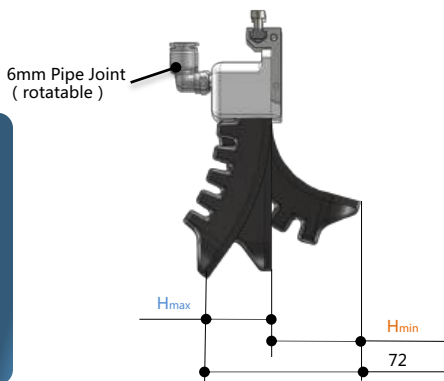
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A6V3/LF1[P]			FM-A6V3/LF1[PAS]			FM-A6V3/LF1[H]			FM-A6V3/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

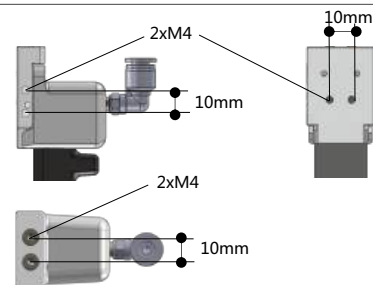


The measuring unit: [mm]

### Pose Adjustment



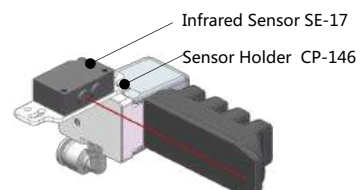
### Fixation



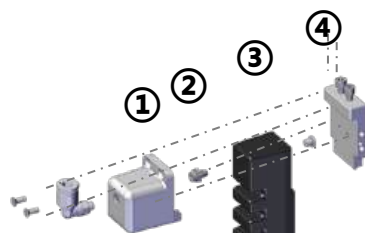
### Air Intake



### Sensor Installation



### Assembly



### Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -A6V4 / LF1

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Finger Pattern

LF1

Suitable for smooth dry workpieces and soft food.

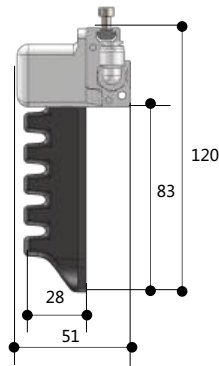
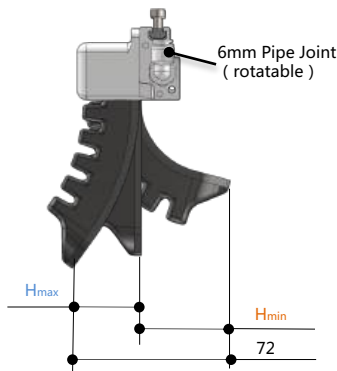
Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material			
FM-A6V4/LF1[P]		FM-A6V4/LF1[PAS]		FM-A6V4/LF1[H]		FM-A6V4/LF1[HAS]			
Finger color: Black				Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



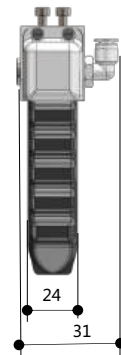
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



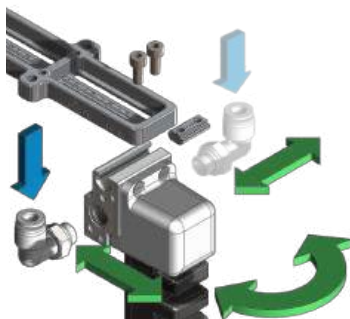
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



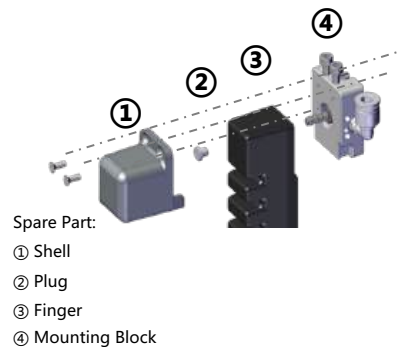
The measuring unit: [mm]



### Air Intake & Pose Adjustment



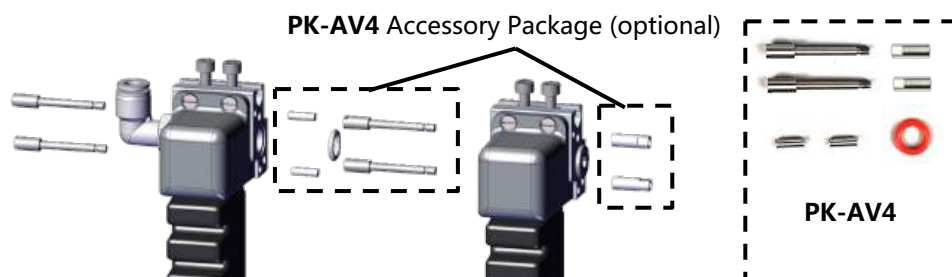
### Assembly



### 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.











## FM -A6V5 / LF1

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

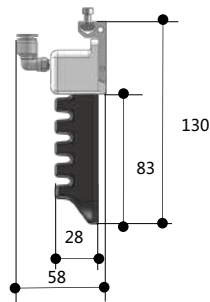
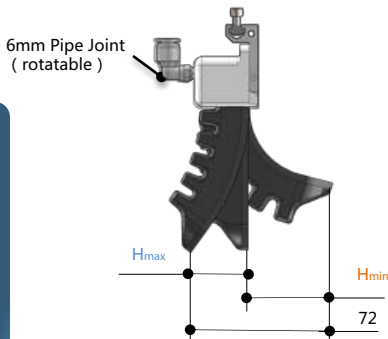
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A6V5/LF1[P]		FM-A6V5/LF1[PAS]			FM-A6V5/LF1[H]		FM-A6V5/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



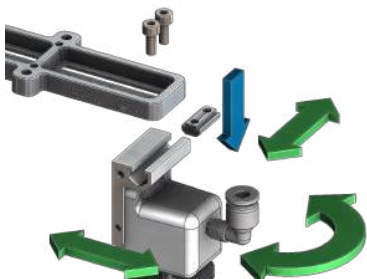
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



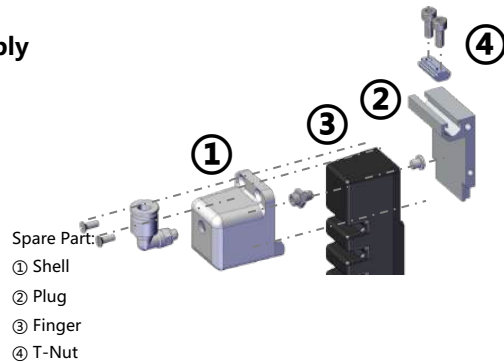
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



### 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.

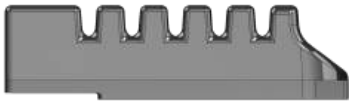
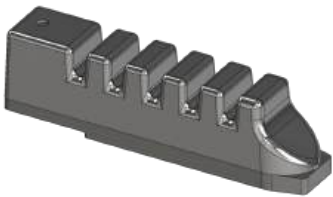
### PK-AV5 Accessory Package (optional)





F -A6T / LF1

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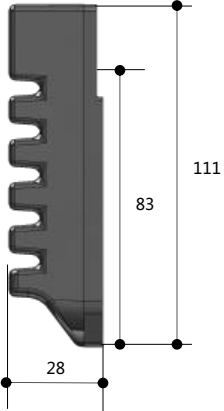
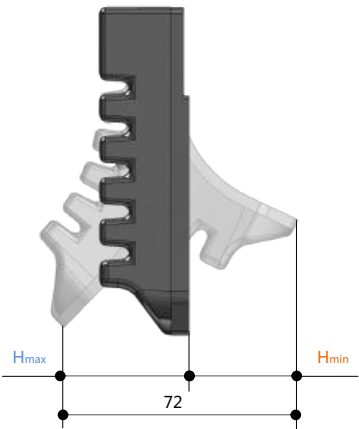


Finger Pattern			Features						
LF1	Special Form		Suitable for smooth dry workpieces and soft food.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-A6T/LF1[P]			F-A6T/LF1[PAS]		F-A6T/LF1[H]			F-A6T/LF1[HAS]	
Finger color: Black					Finger color: Grey				
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.

Dimension Parameters

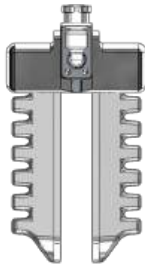




FM







## FM -A7V1 / 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-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



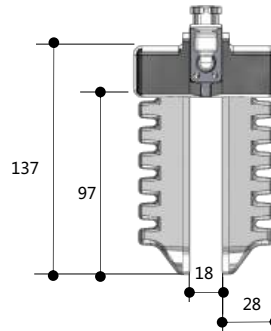
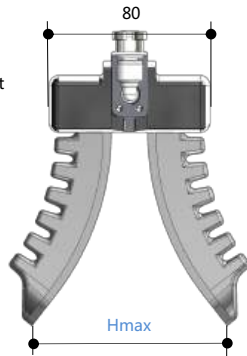
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



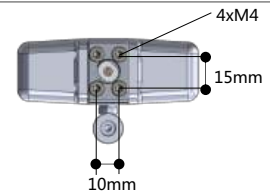
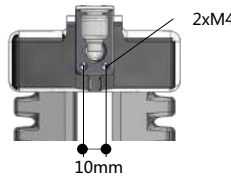
6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]



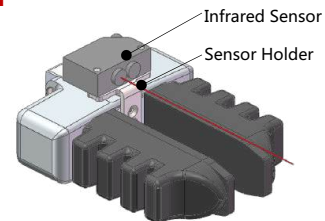
### Fixation



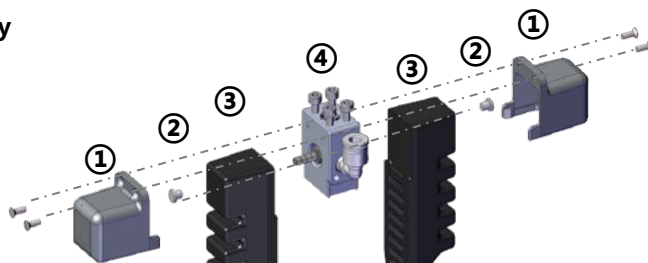
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A7V2 / LS1

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

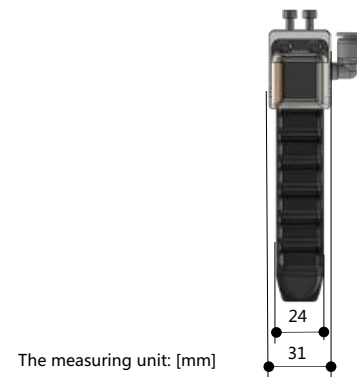
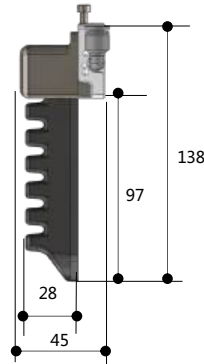
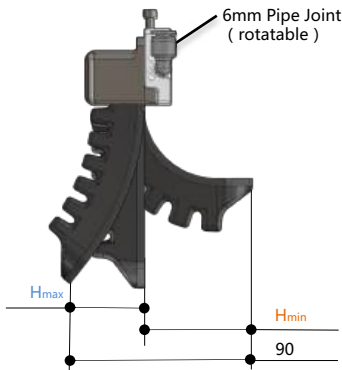
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V2/LS1[P]		FM-A7V2/LS1[PAS]			FM-A7V2/LS1[H]		FM-A7V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



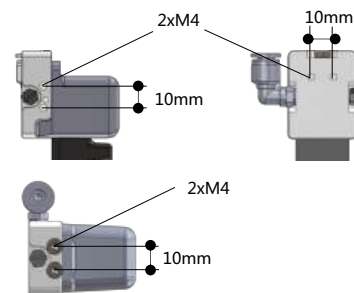
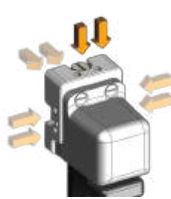
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



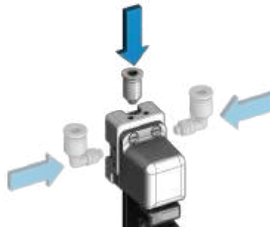
### Pose Adjustment



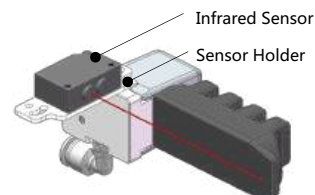
### Fixation



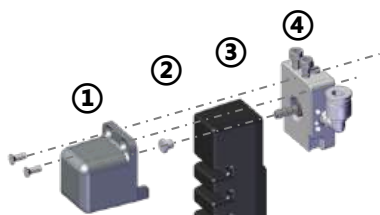
### Air Intake



### Sensor Installation



### Assembly



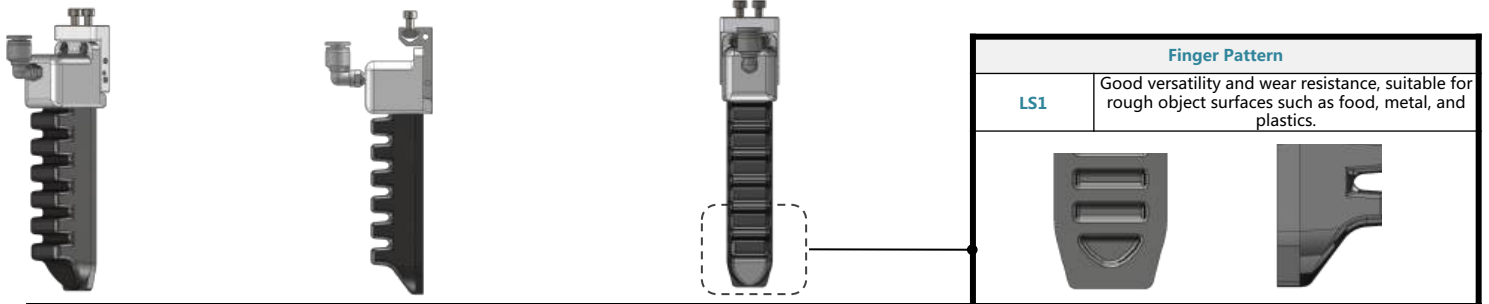
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A7V3 / LS1

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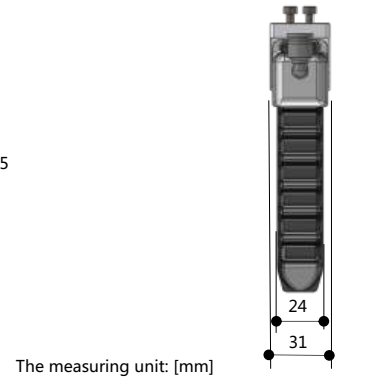
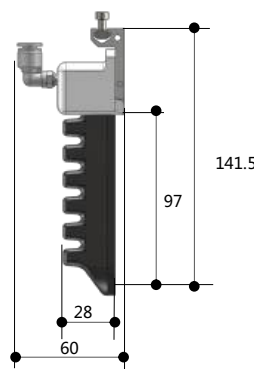
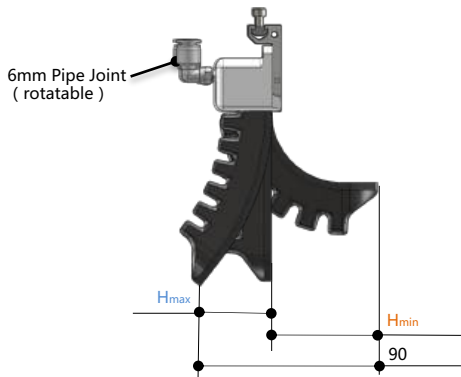
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V3/LS1[P]		FM-A7V3/LS1[PAS]			FM-A7V3/LS1[H]		FM-A7V3/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

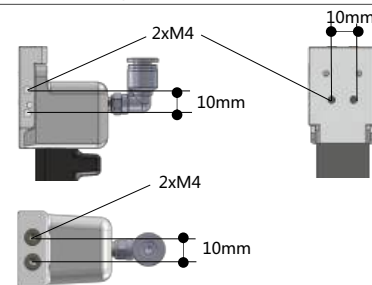
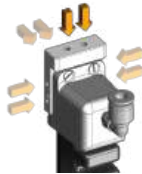


The measuring unit: [mm]

### Pose Adjustment



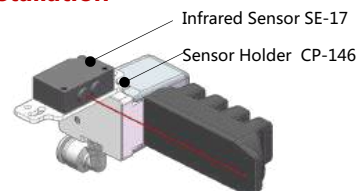
### Fixation



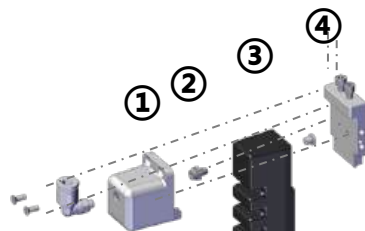
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

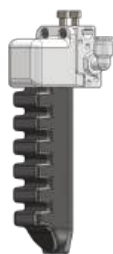
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A7V4 / 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-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

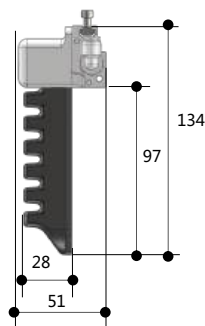
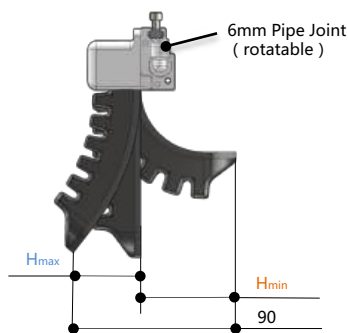


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

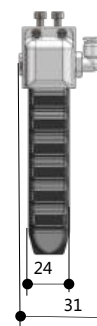


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

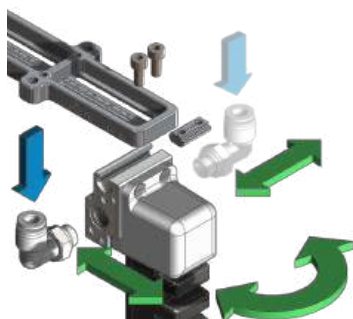
FM



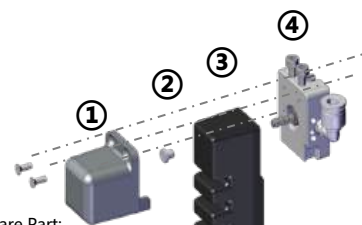
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

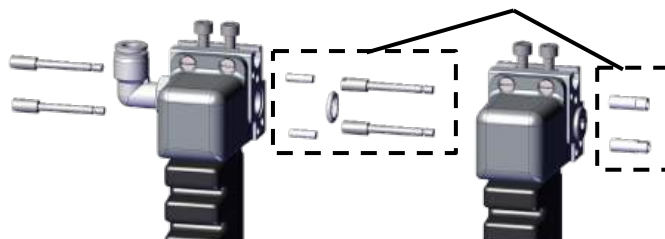
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

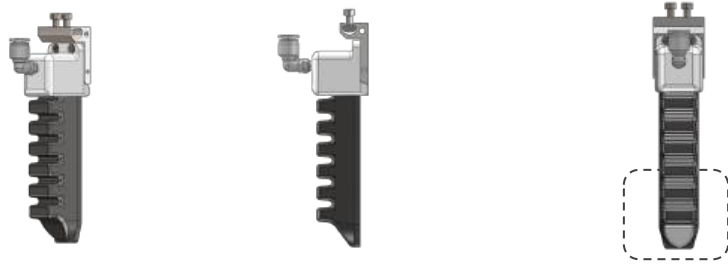
### PK-AV4 Accessory Package (optional)







## FM -A7V5 / LS1

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

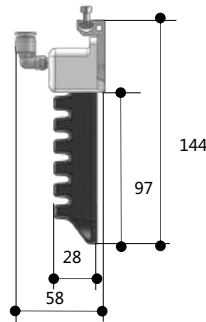
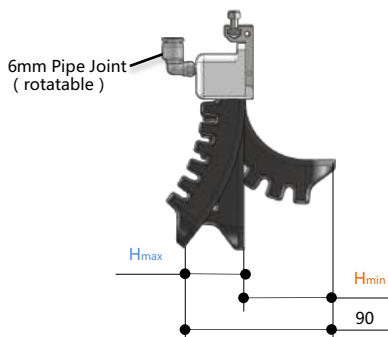
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A7V5/LS1[P]			FM-A7V5/LS1[PAS]			FM-A7V5/LS1[H]			FM-A7V5/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

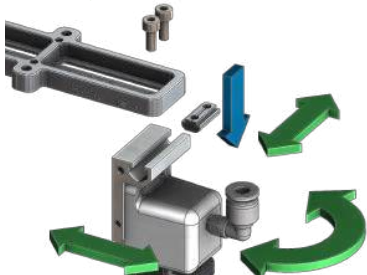


The measuring unit: [mm]

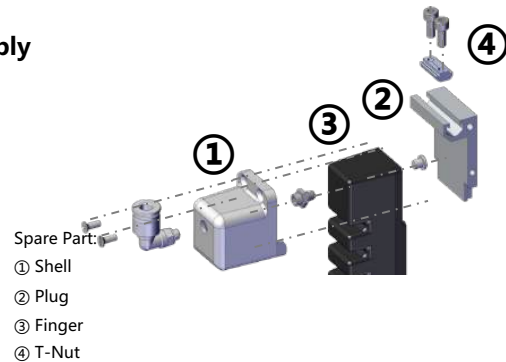


FM

### Air Intake & Pose Adjustment



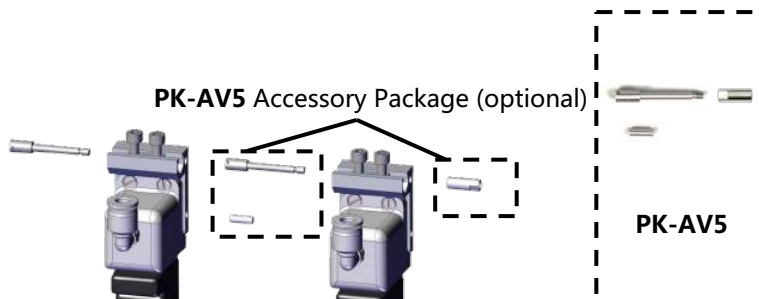
### Assembly



### 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.





Scan to watch videos

F -A7T / LS1

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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	



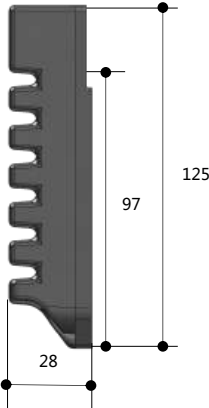
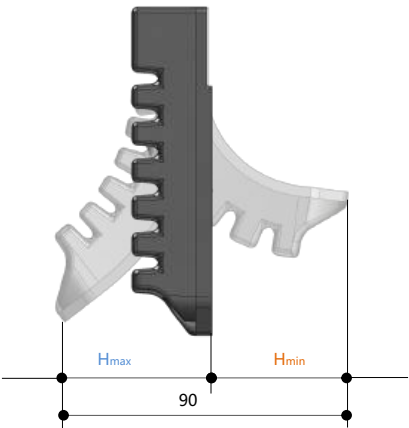
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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









## FM -A7V1 / 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-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		



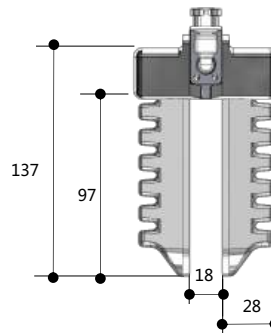
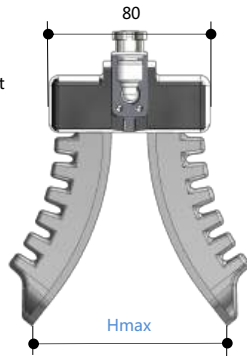
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



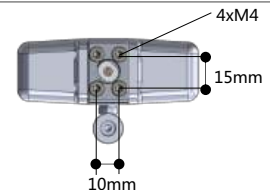
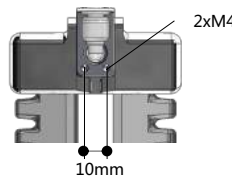
6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]



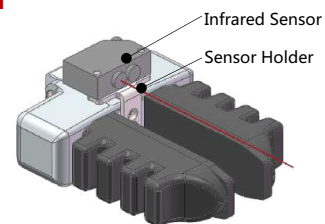
### Fixation



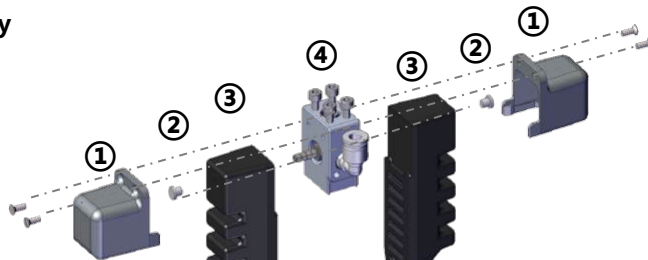
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A7V2 / LS8

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

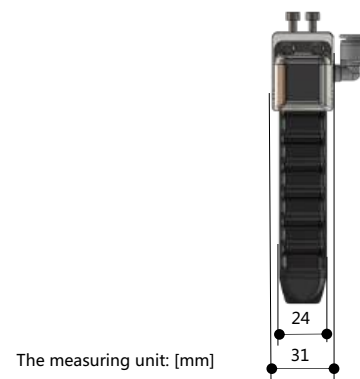
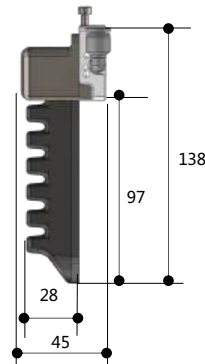
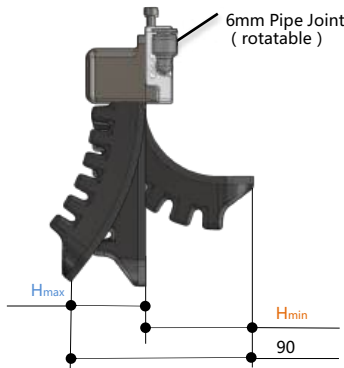
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-A7V2/LS8[P]			FM-A7V2/LS8[PAS]			FM-A7V2/LS8[H]			FM-A7V2/LS8[HAS]		
Finger color: Black						Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

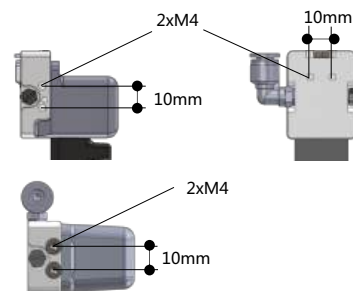
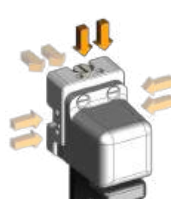


The measuring unit: [mm]

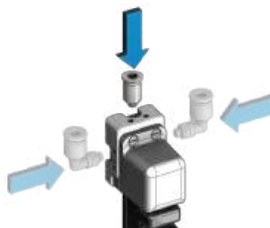
### Pose Adjustment



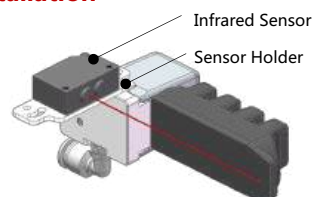
### Fixation



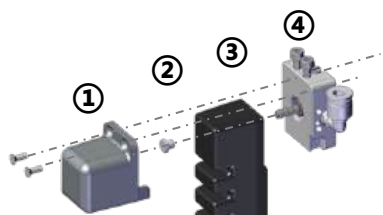
### Air Intake



### Sensor Installation



### Assembly



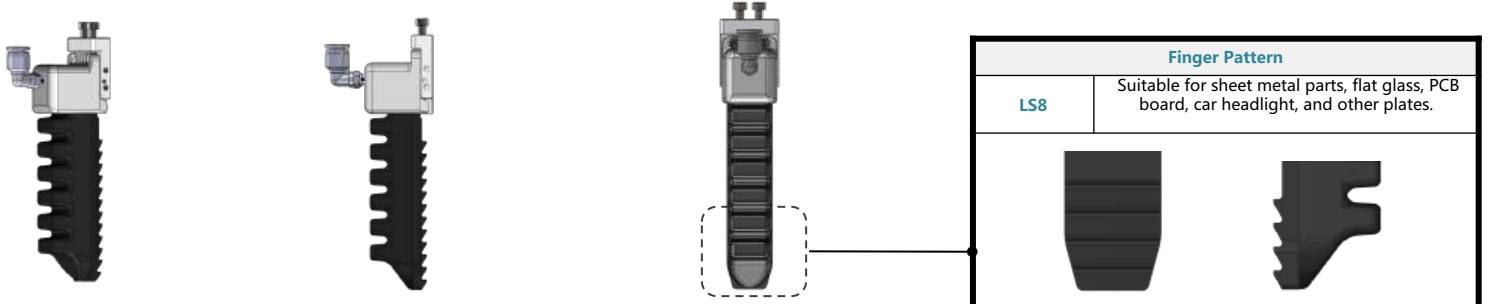
Spare Part:




- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A7V3 / LS8

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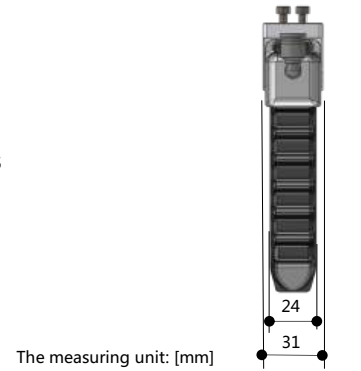
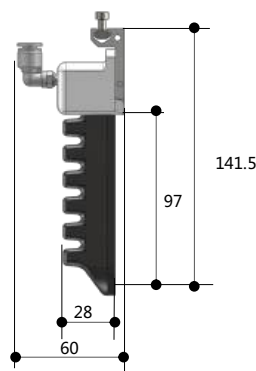
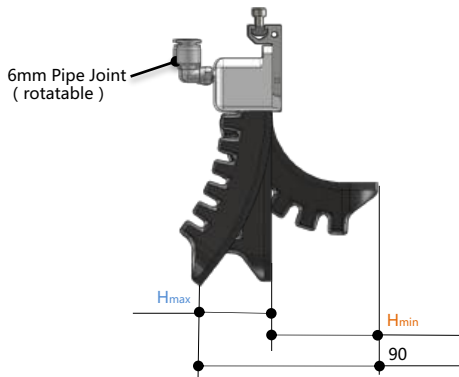
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V3/LS8[P]		FM-A7V3/LS8[PAS]			FM-A7V3/LS8[H]		FM-A7V3/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



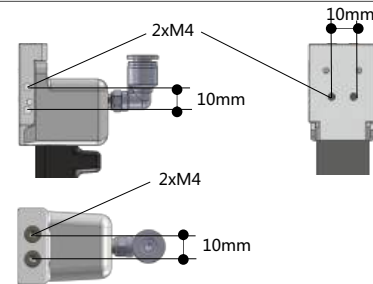
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



### Pose Adjustment



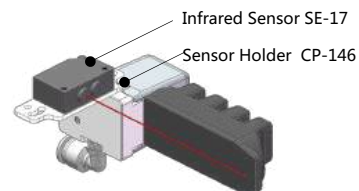
### Fixation



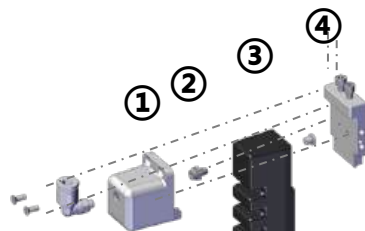
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A7V4 / 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-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

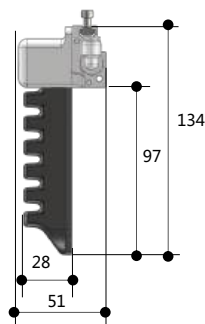
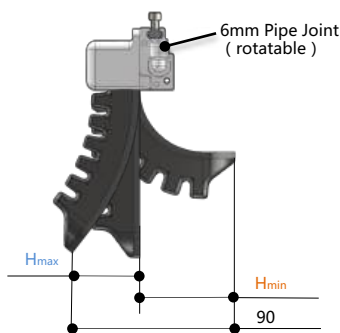


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

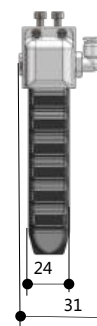


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

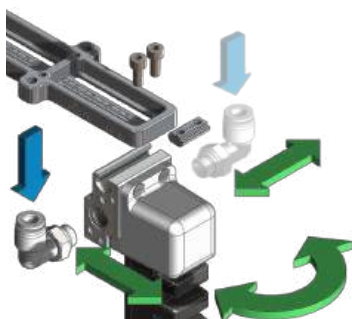
FM



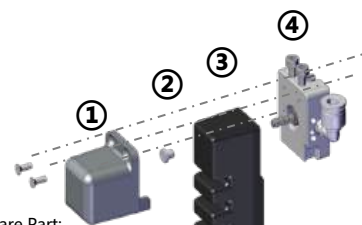
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

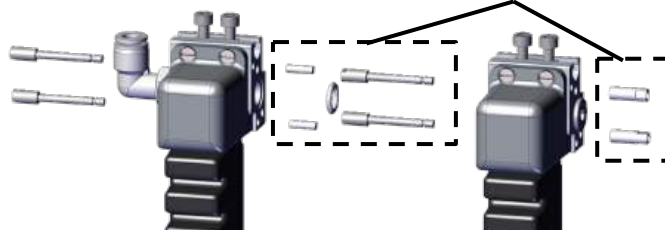
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

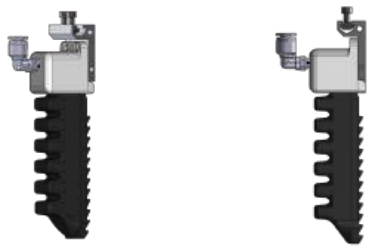
### PK-AV4 Accessory Package (optional)











## FM -A7V5 / LS8

Download 3D-CAD-models for free



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

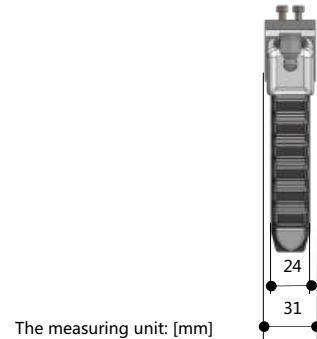
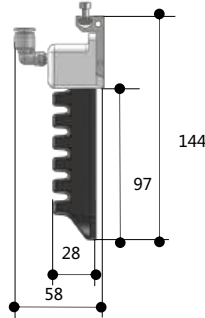
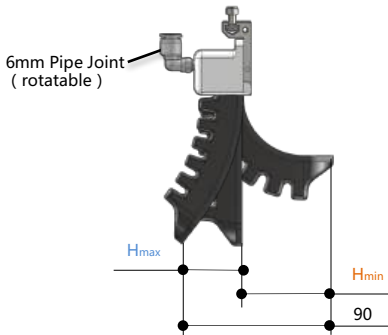
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V5/LS8[P]		FM-A7V5/LS8[PAS]			FM-A7V5/LS8[H]		FM-A7V5/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

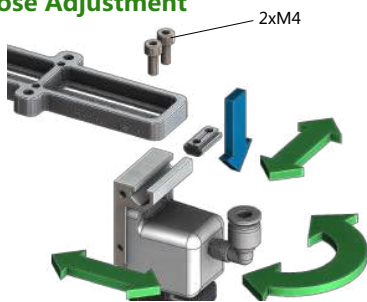


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

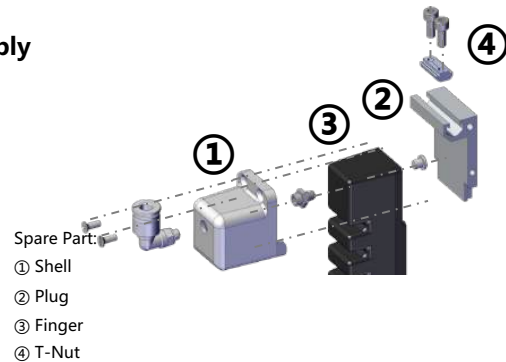


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



### 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.

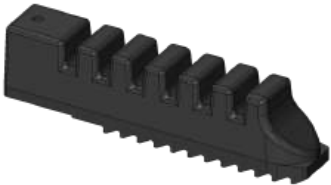
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





F -A7T / LS8

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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	



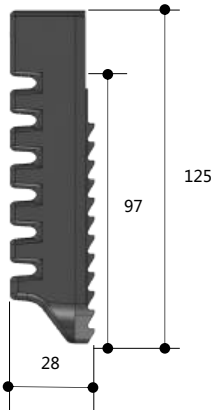
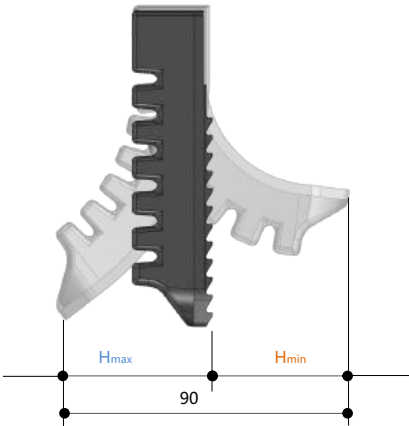
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

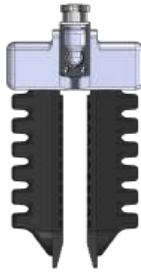
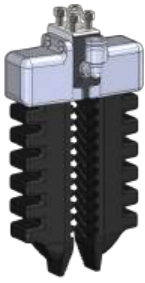
Dimension Parameters





## FM -A7V1 / 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-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		



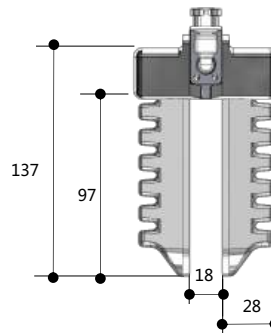
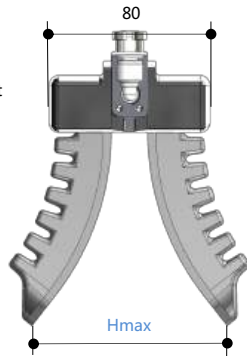
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

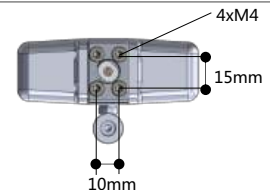
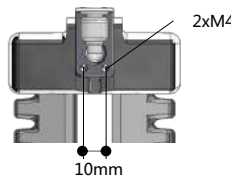


6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]

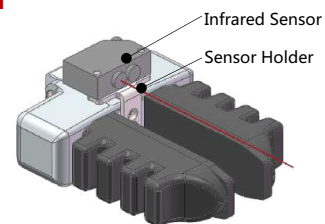
### Fixation



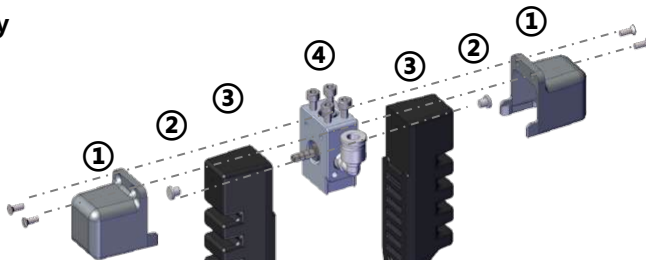
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block






## FM -A7V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

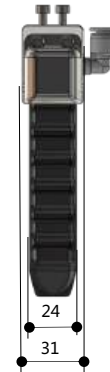
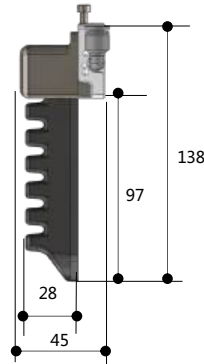
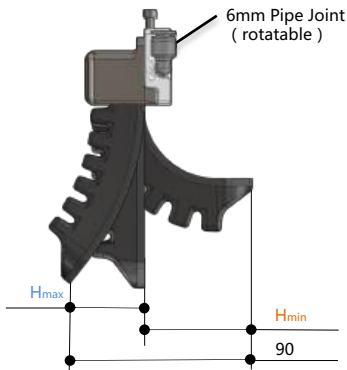
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V2/FS3[P]		FM-A7V2/FS3[PAS]			FM-A7V2/FS3[H]		FM-A7V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

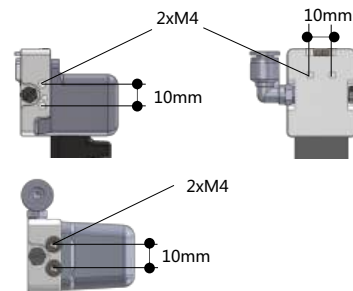
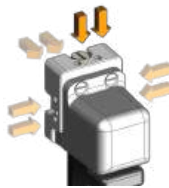


The measuring unit: [mm]

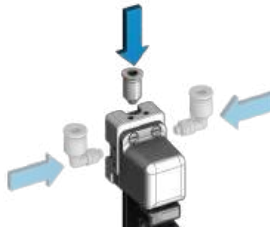
### Pose Adjustment



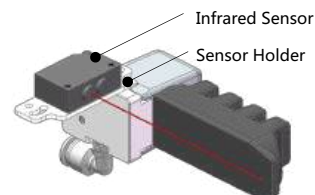
### Fixation



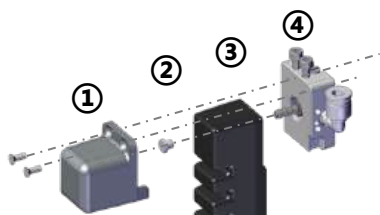
### Air Intake



### Sensor Installation



### Assembly



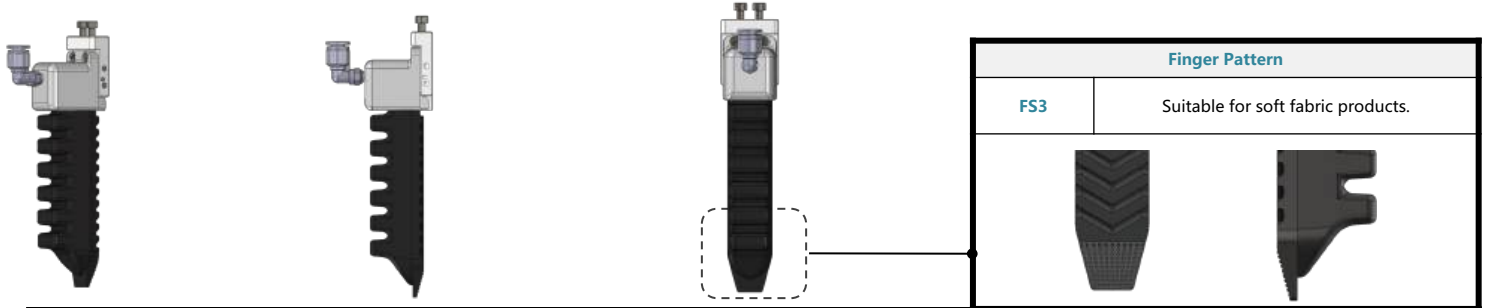
Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A7V3 / FS3

Download 3D-CAD-models for free



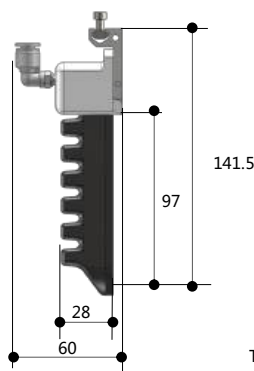
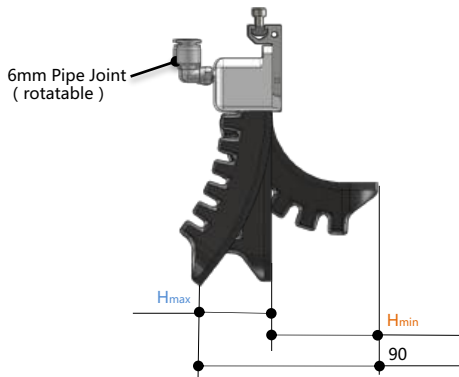
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V3/FS3[P]		FM-A7V3/FS3[PAS]			FM-A7V3/FS3[H]		FM-A7V3/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



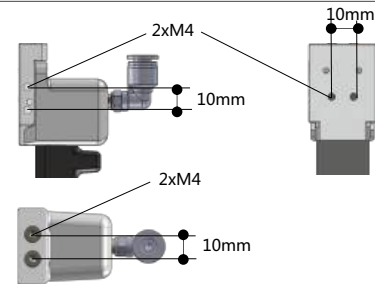
The measuring unit: [mm]



### Pose Adjustment



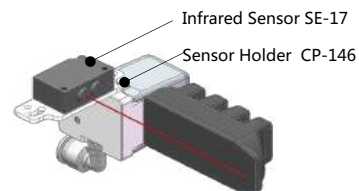
### Fixation



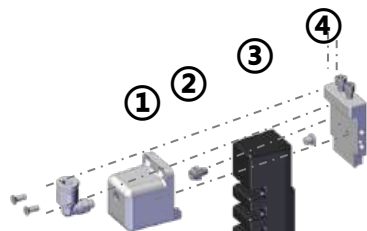
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A7V4 / 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-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

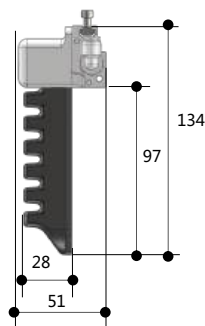
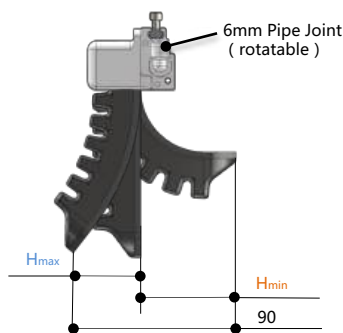


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

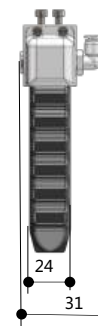


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

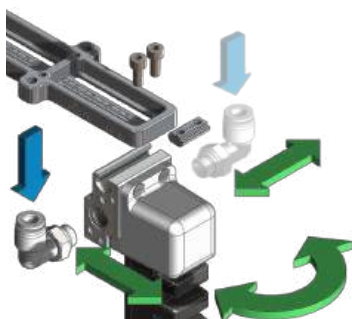
FM



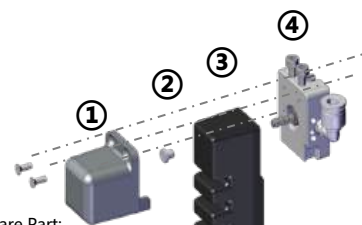
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



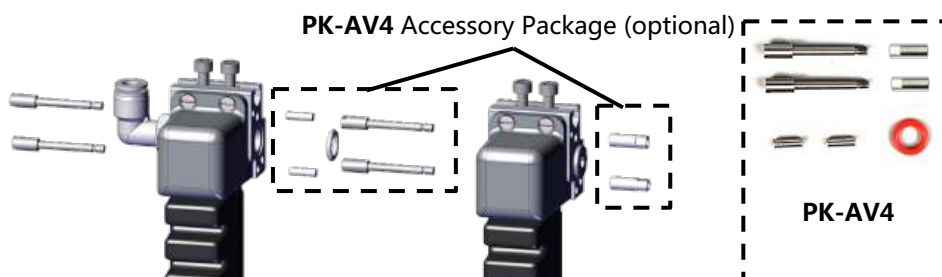
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.






## FM -A7V5 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

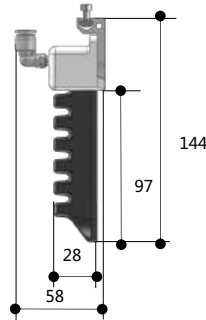
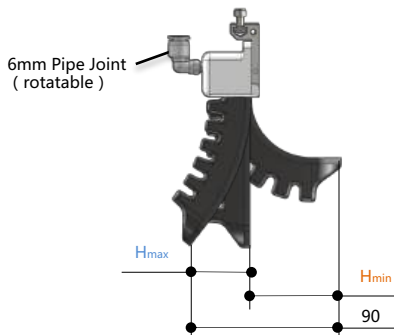
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A7V5/FS3[P]		FM-A7V5/FS3[PAS]			FM-A7V5/FS3[H]		FM-A7V5/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



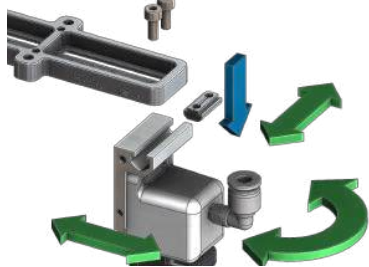
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



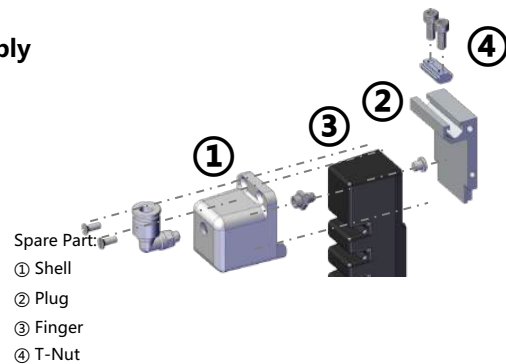
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



### 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.

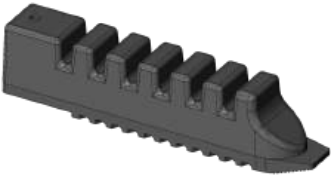
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







F -A7T / FS3

Download 3D-CAD-models for free



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	

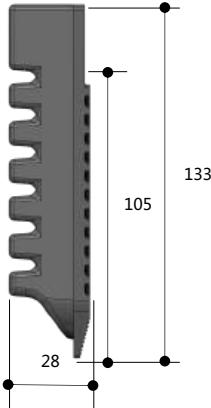
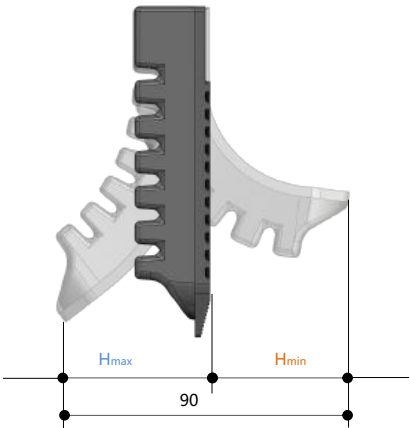


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

Dimension Parameters



FM







## FM -A8V1 / 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-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	 420	224	0	82	 300	 560	224

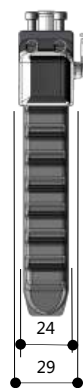


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

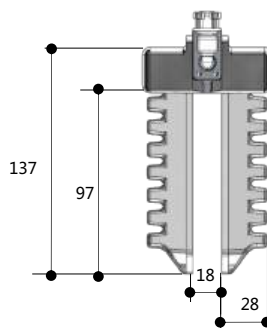
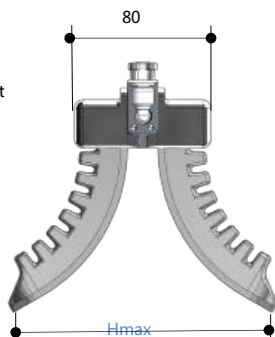


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

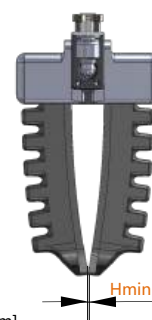
FM



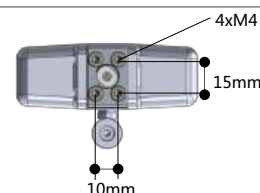
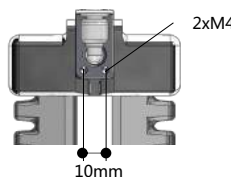
6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]



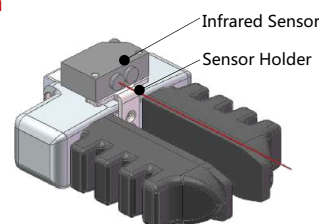
### Fixation



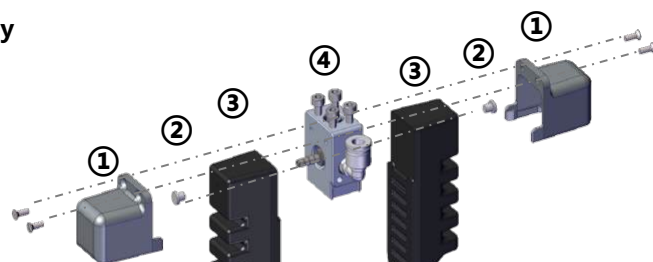
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -A8V2 / LS1

Download 3D-CAD-models for free



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

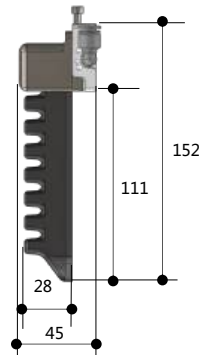
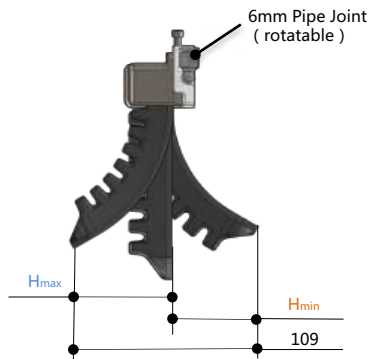
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A8V2/LS1[P]		FM-A8V2/LS1[PAS]			FM-A8V2/LS1[H]		FM-A8V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



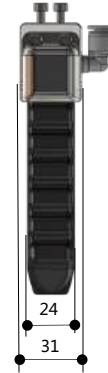
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



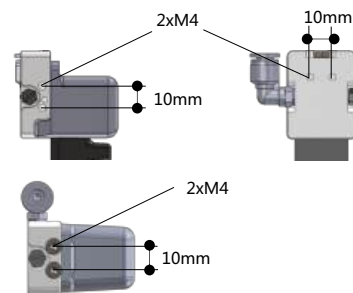
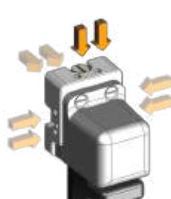
The measuring unit: [mm]



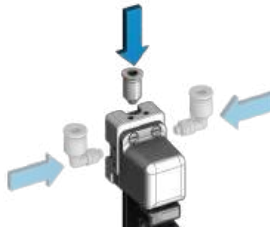
### Pose Adjustment



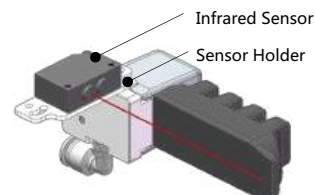
### Fixation



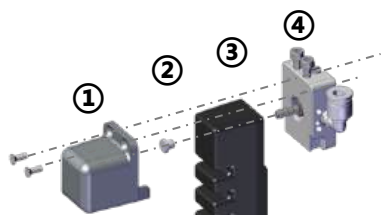
### Air Intake



### Sensor Installation



### Assembly



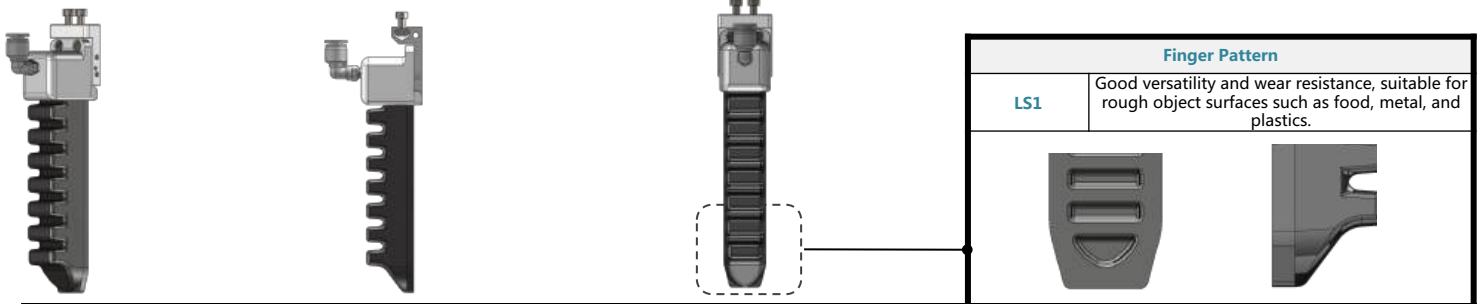
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -A8V3 / LS1

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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

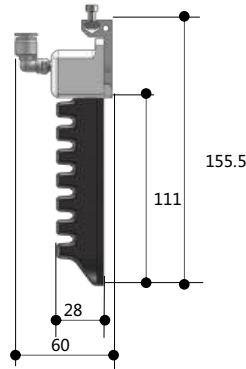
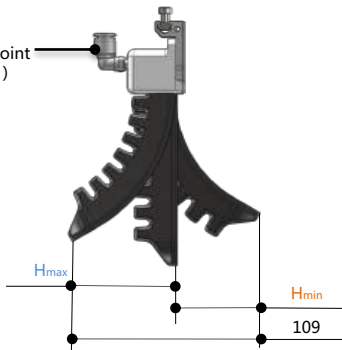


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



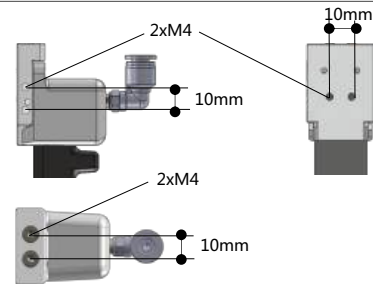
The measuring unit: [mm]



### Pose Adjustment



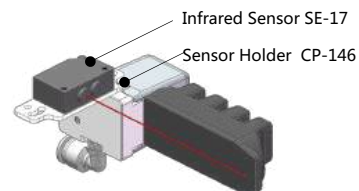
### Fixation



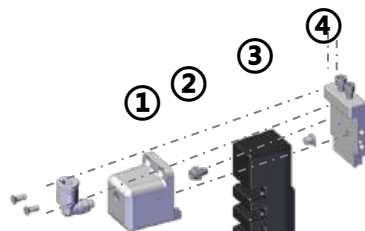
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

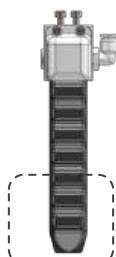
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -A8V4 / LS1

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

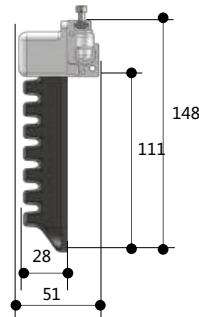
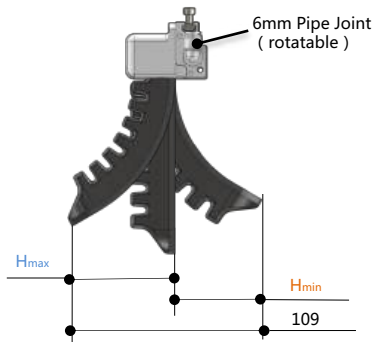
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-A8V4/LS1[P]		FM-A8V4/LS1[PAS]			FM-A8V4/LS1[H]		FM-A8V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



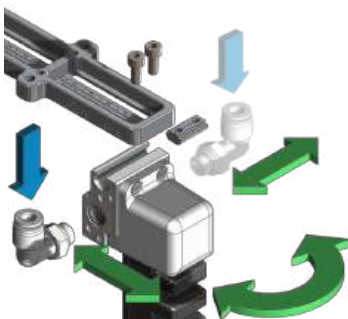
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



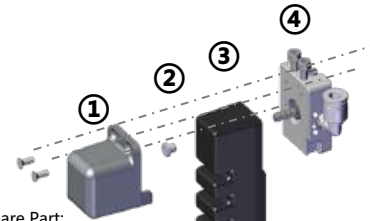
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

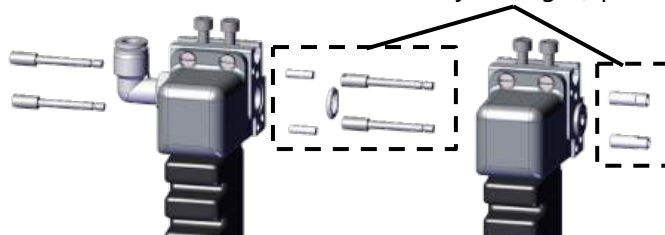
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

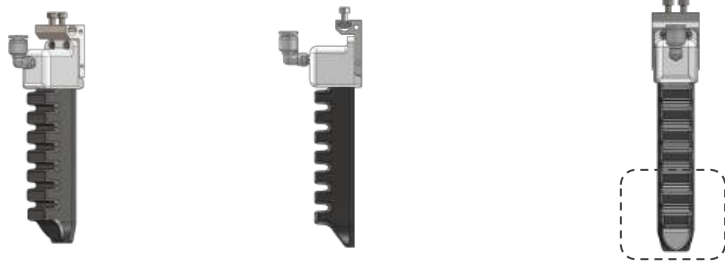
### PK-AV4 Accessory Package (optional)







## FM -A8V5 / 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-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

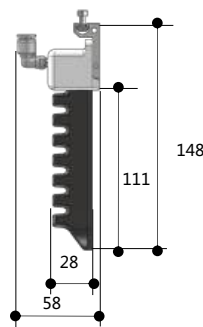
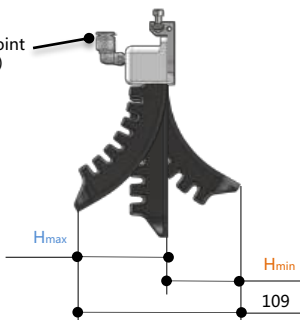


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

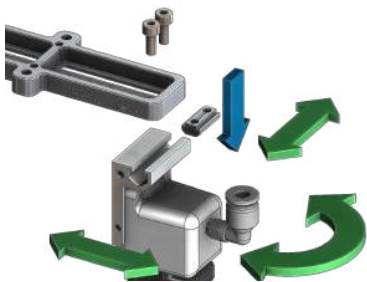
6mm Pipe Joint  
( rotatable )



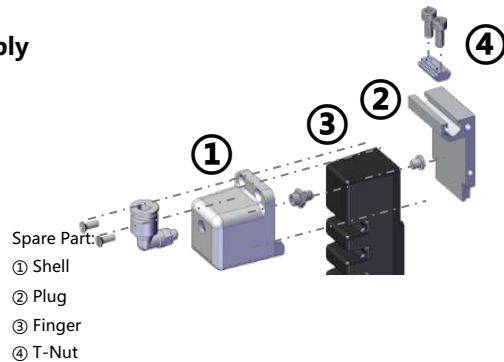
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

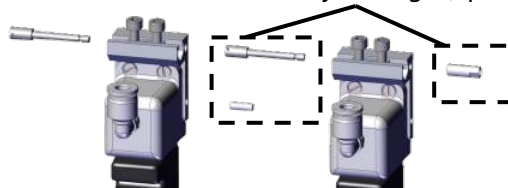


### Series combination:

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.

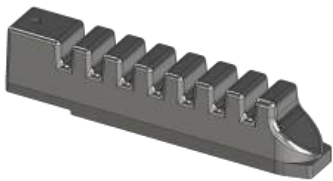
### PK-AV5 Accessory Package (optional)





F -A8T / LS1

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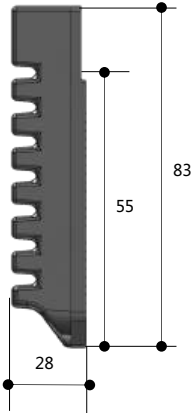
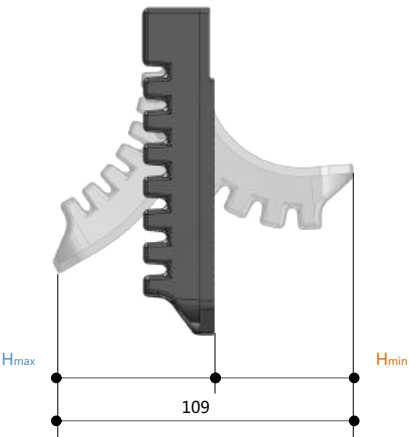


Finger Pattern			Features						
LS1	Standard form		Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-A8T/LS1[P]			F-A8T/LS1[PAS]		F-A8T/LS1[H]			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.

Dimension Parameters

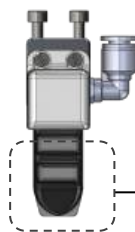
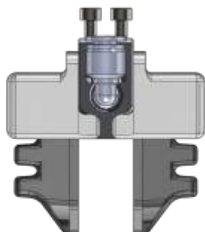
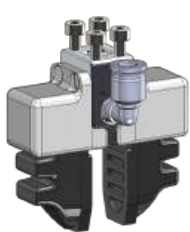


FM







## FM -B3V1 / LS1

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

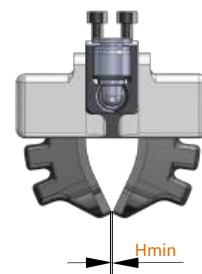
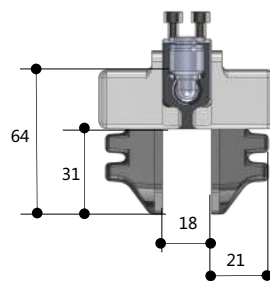
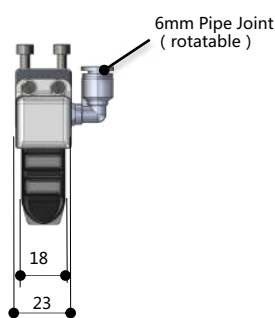
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B3V1/LS1[P]			FM-B3V1/LS1[PAS]			FM-B3V1/LS1[H]			FM-B3V1/LS1[HAS]		
Finger color: Black						Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

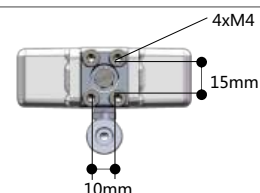
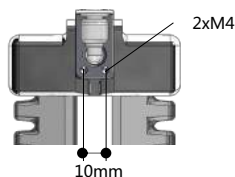


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

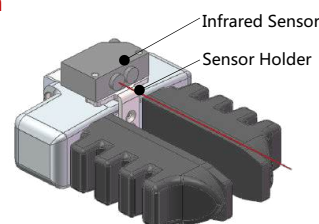
### Fixation



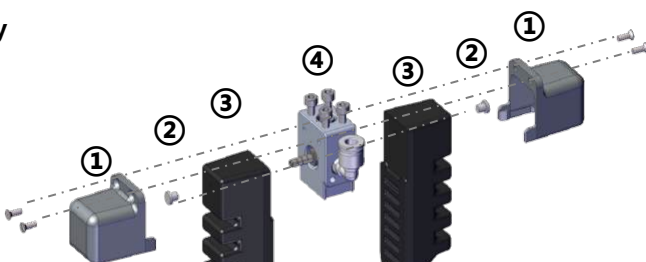
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B3V2 / LS1

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

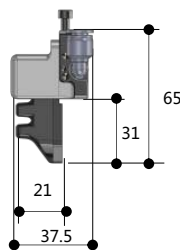
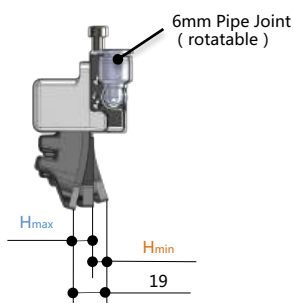
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B3V2/LS1[P]		FM-B3V2/LS1[PAS]			FM-B3V2/LS1[H]		FM-B3V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

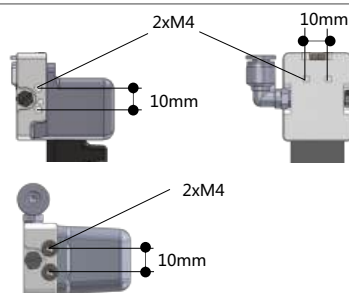
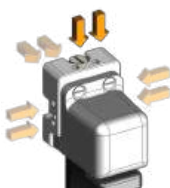


The measuring unit: [mm]

### Pose Adjustment



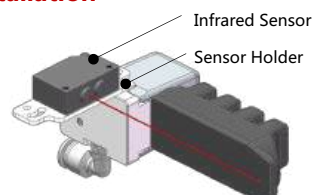
### Fixation



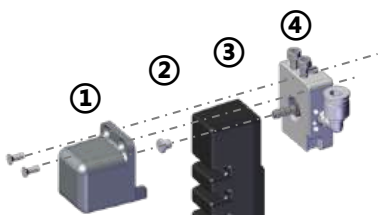
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B3V3 / 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-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

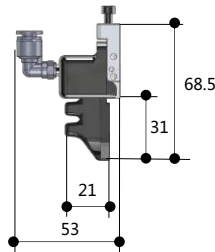
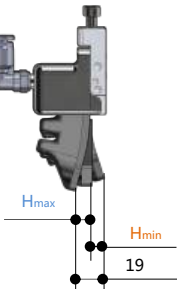


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

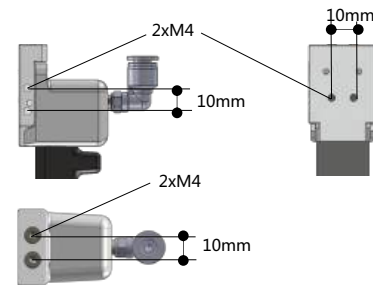


The measuring unit: [mm]

### Pose Adjustment



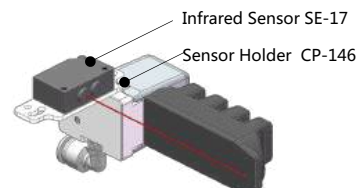
### Fixation



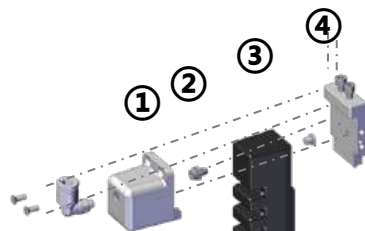
### Air Intake



### Sensor Installation



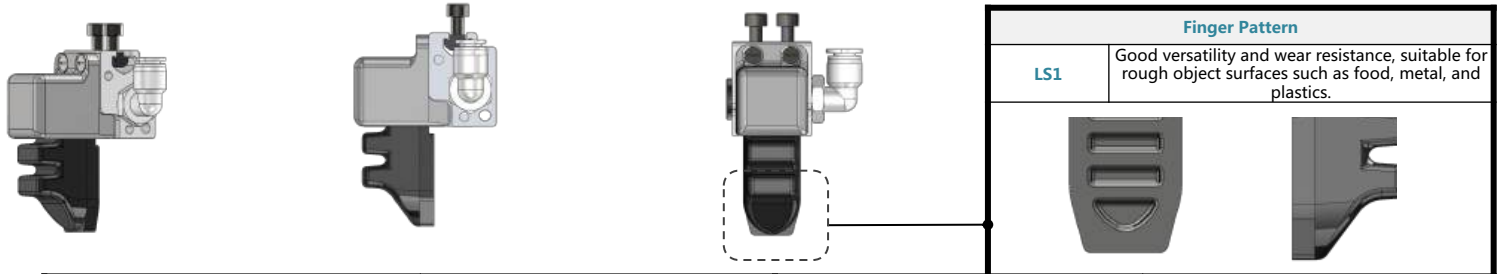
### Assembly







Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





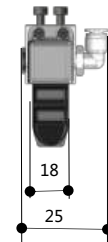
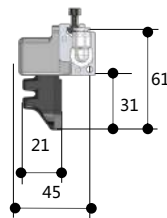
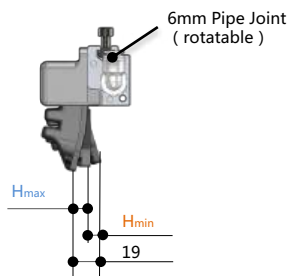
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B3V4/LS1[P]			FM-B3V4/LS1[PAS]			FM-B3V4/LS1[H]			FM-B3V4/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

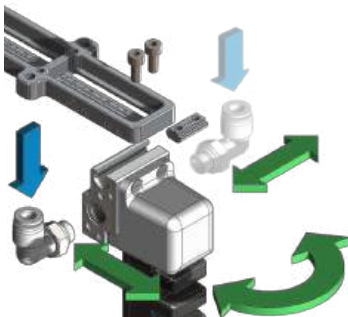


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

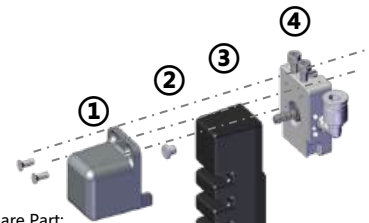


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

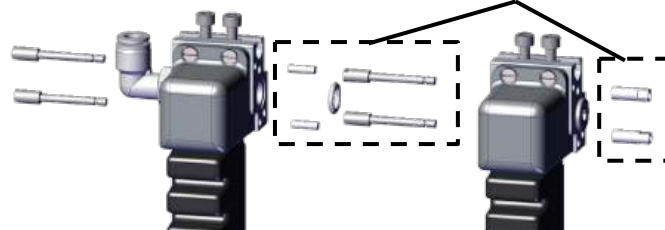
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

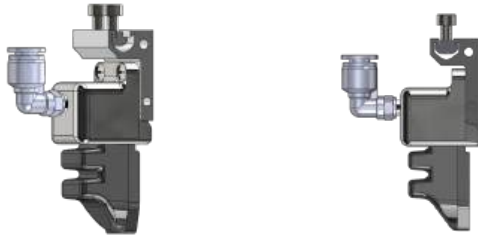
### PK-BV4 Accessory Package (optional)









## FM -B3V5 / 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-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		

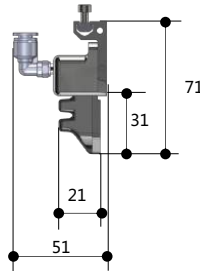
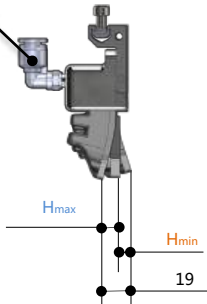


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



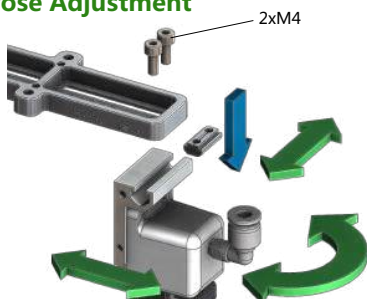
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

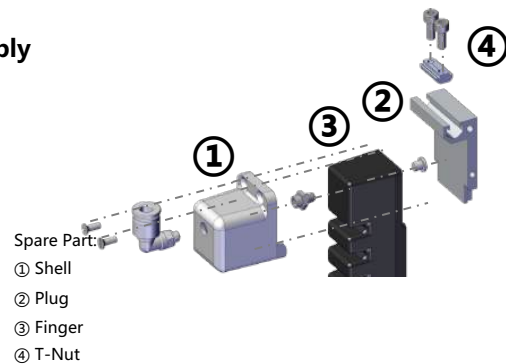


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

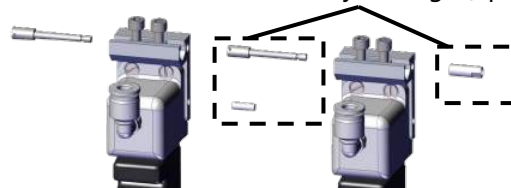


### Series combination:

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.

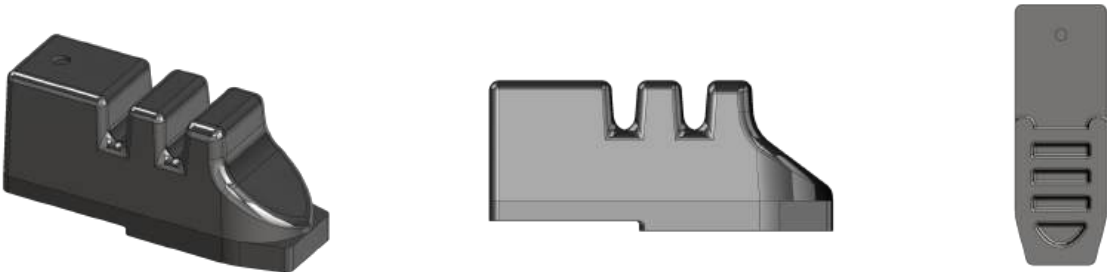
### PK-BV5 Accessory Package (optional)





F -B3T / LS1

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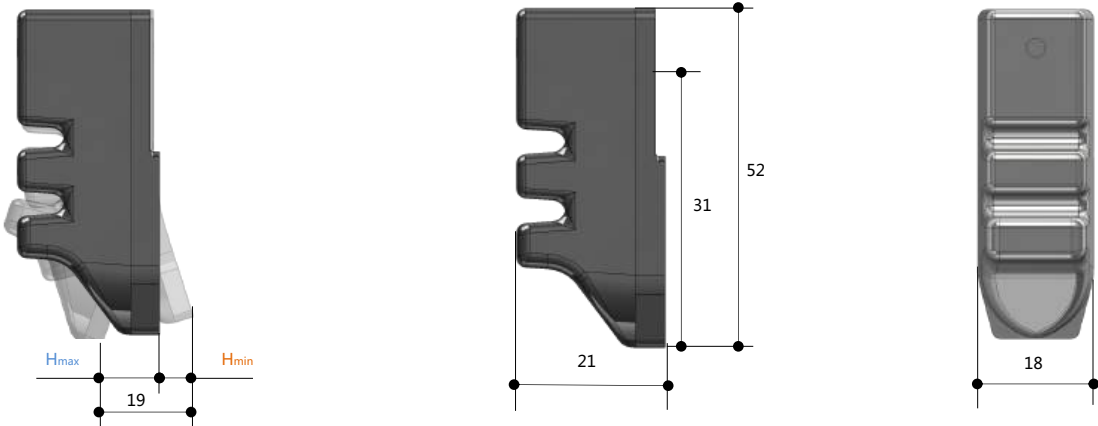


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-B3T/LS1[P]		F-B3T/LS1[PAS]			F-B3T/LS1[H]			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	📦 170	11	9	6	⚠️ 260	📦 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.

📦 The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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

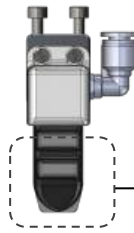
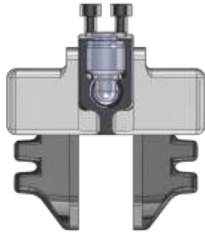


FM



## 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		

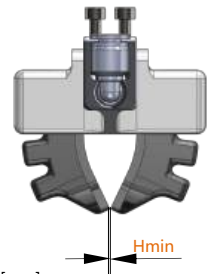
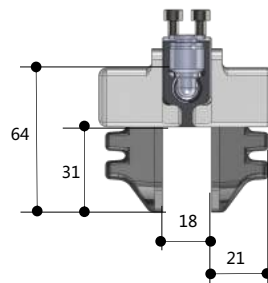
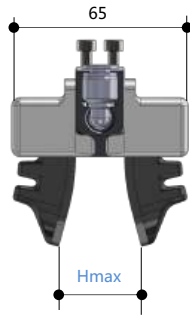
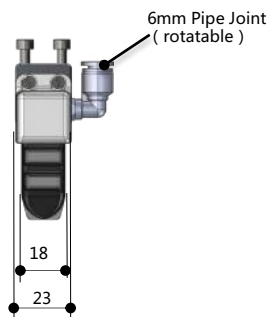


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



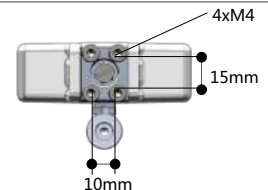
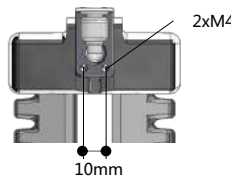
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

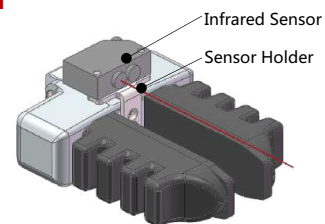
### Fixation



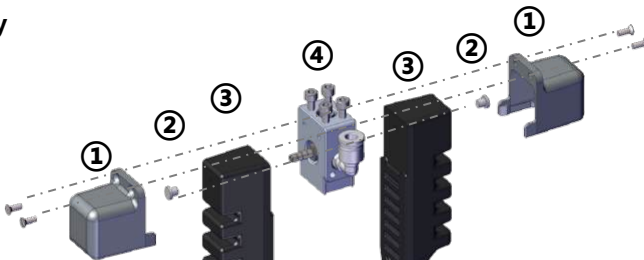
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B3V2 / LF1

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

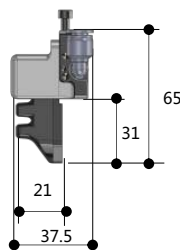
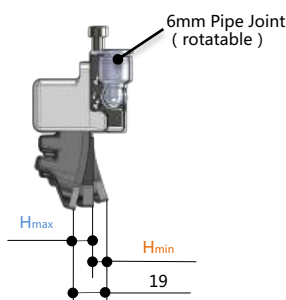
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B3V2/LF1[P]		FM-B3V2/LF1[PAS]			FM-B3V2/LF1[H]		FM-B3V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

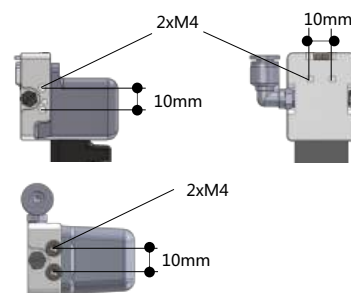
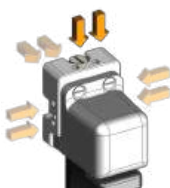


The measuring unit: [mm]

### Pose Adjustment



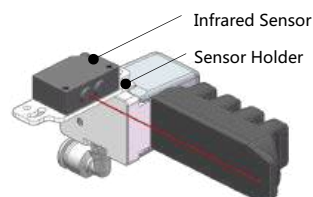
### Fixation



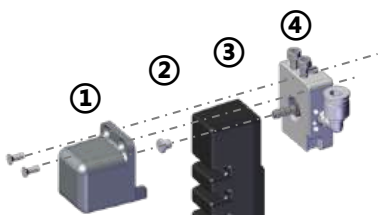
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## 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

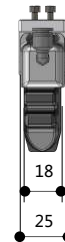
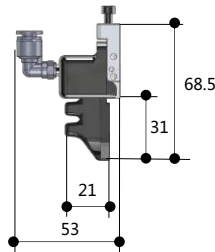
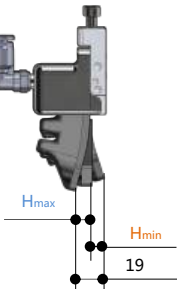


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

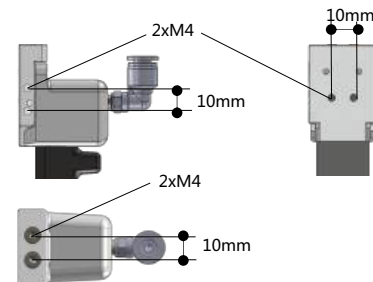


The measuring unit: [mm]

### Pose Adjustment



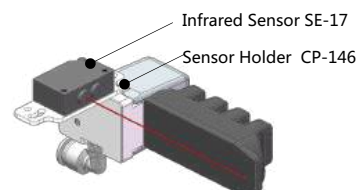
### Fixation



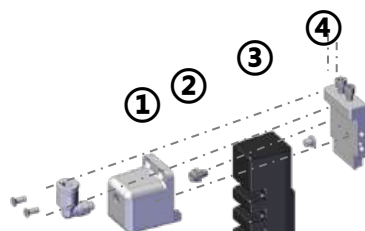
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

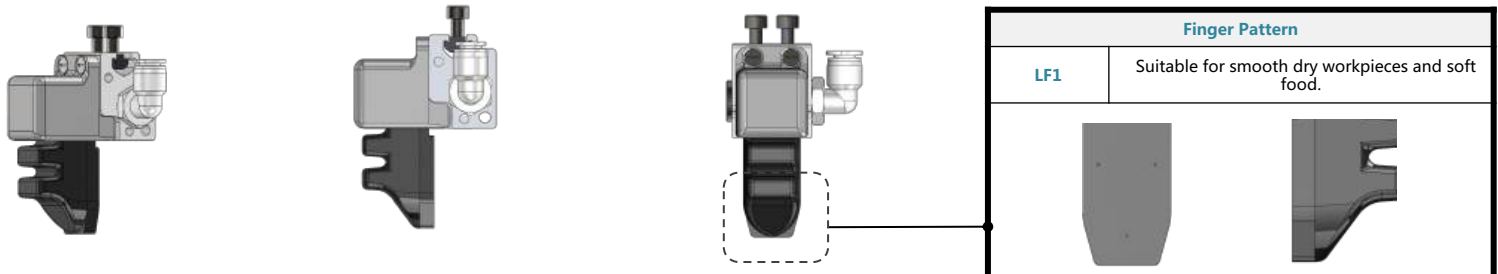
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -B3V4 / LF1

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

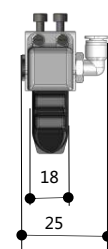
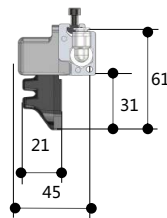
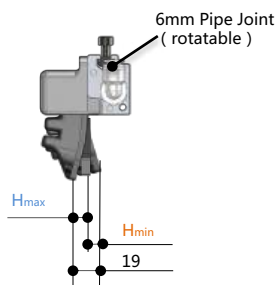
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B3V4/LF1[P]		FM-B3V4/LF1[PAS]			FM-B3V4/LF1[H]		FM-B3V4/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

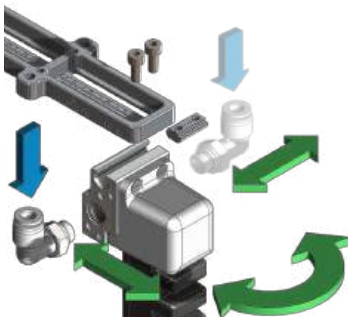


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

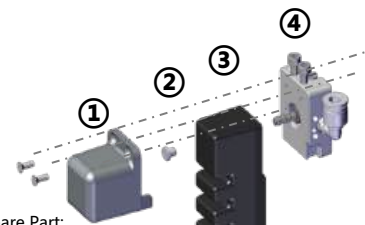


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

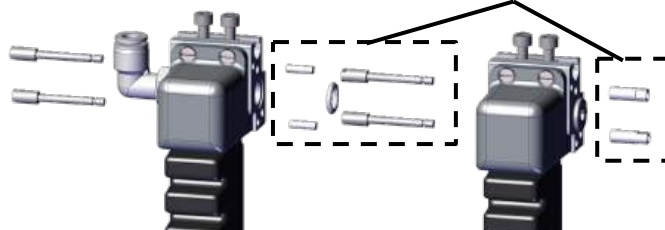
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

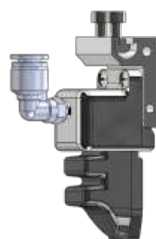
### PK-BV4 Accessory Package (optional)









## 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

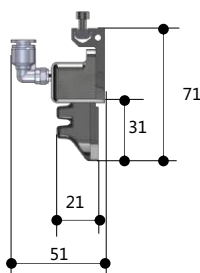
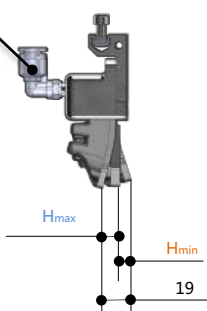


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



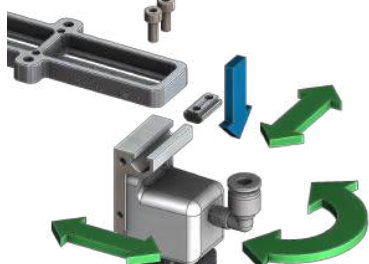
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

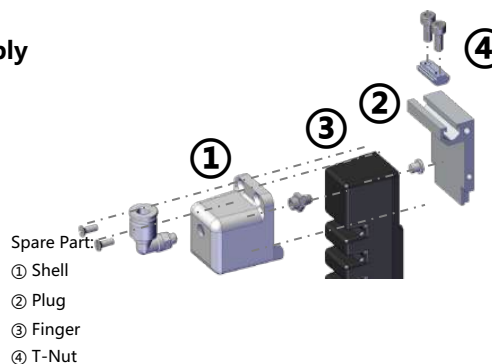


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly

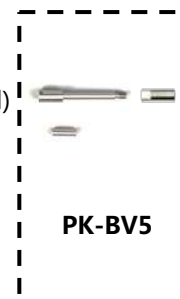
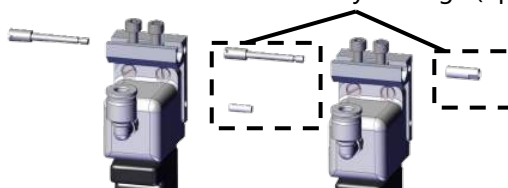


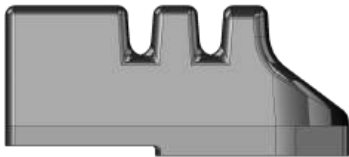
### Series combination:



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	 170	11	9	6	⚠ 260	 240	11	

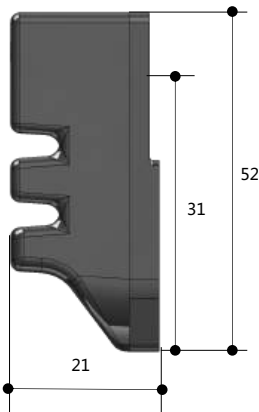
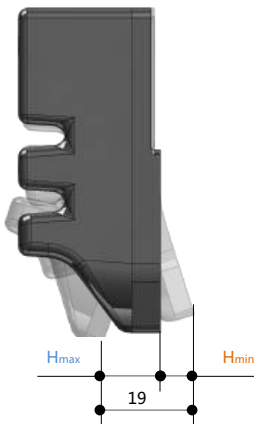


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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

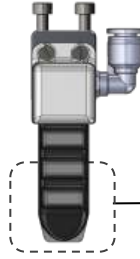
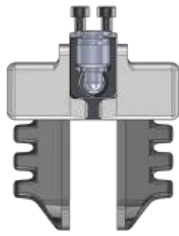
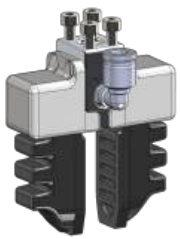


FM



## FM -B4V1 / 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-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

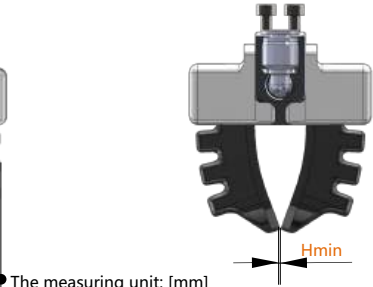
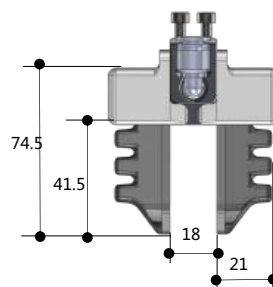
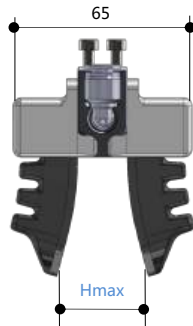
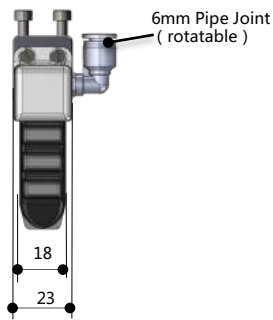


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



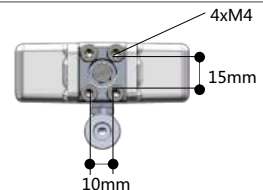
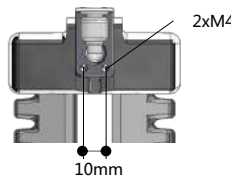
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

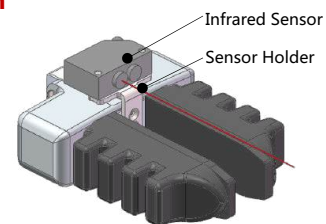
### Fixation



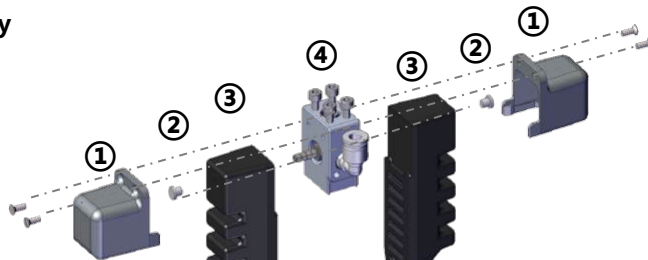
### Air Intake



### Sensor Installation



### Assembly



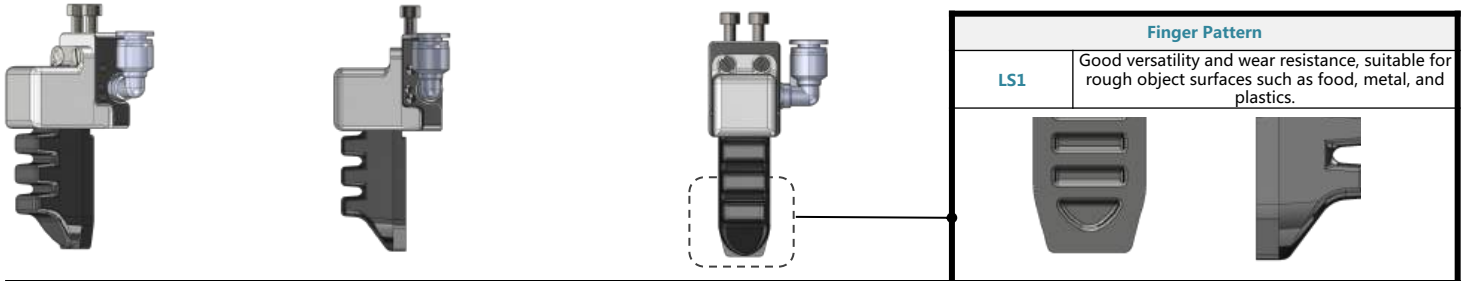
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B4V2 / LS1

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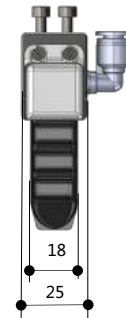
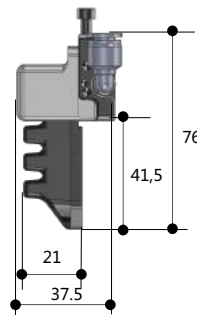
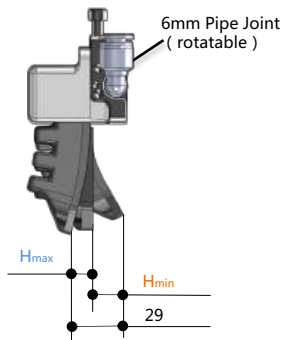
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V2/LS1[P]		FM-B4V2/LS1[PAS]			FM-B4V2/LS1[H]		FM-B4V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

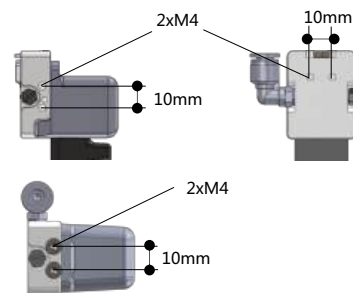
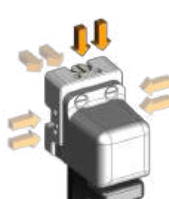


The measuring unit: [mm]

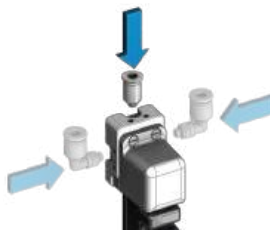
### Pose Adjustment



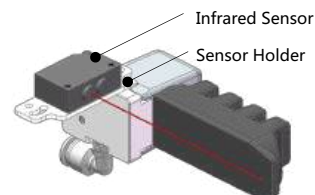
### Fixation



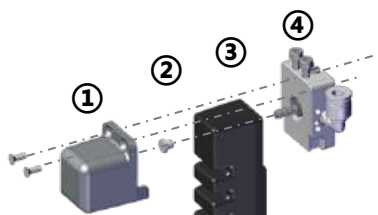
### Air Intake



### Sensor Installation



### Assembly



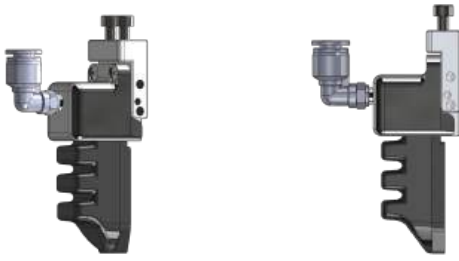
Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B4V3 / 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-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		

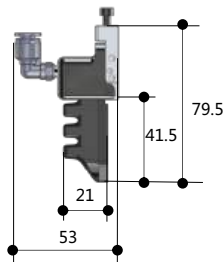
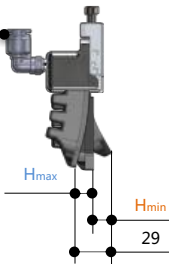


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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 )

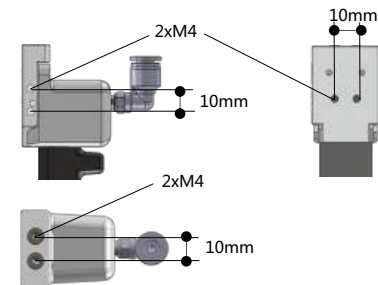


The measuring unit: [mm]

### Pose Adjustment



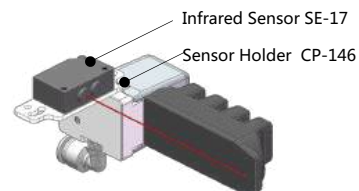
### Fixation



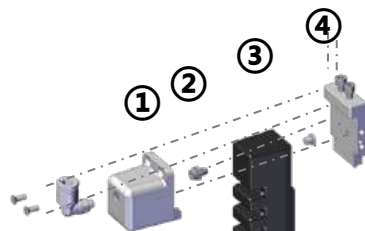
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

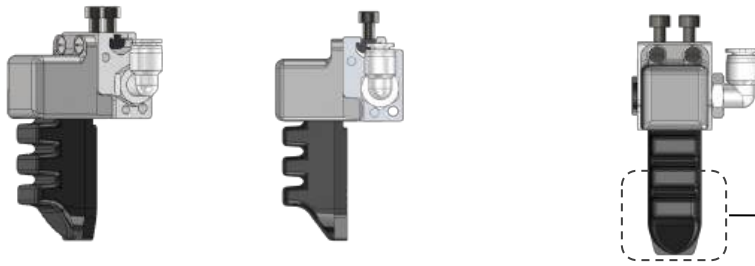
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -B4V4 / LS1

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

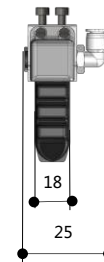
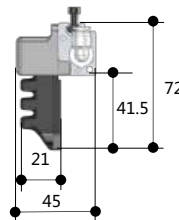
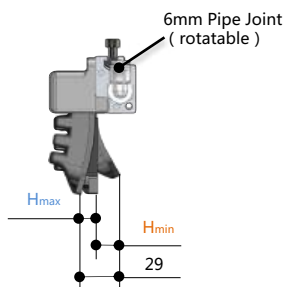
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B4V4/LS1[P]			FM-B4V4/LS1[PAS]			FM-B4V4/LS1[H]			FM-B4V4/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

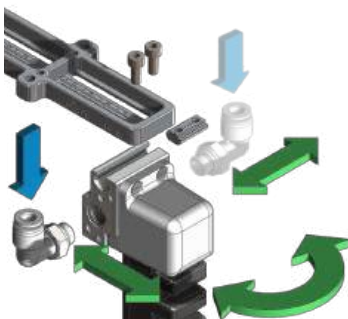


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

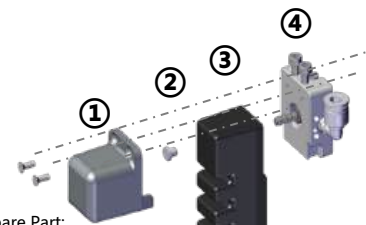


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

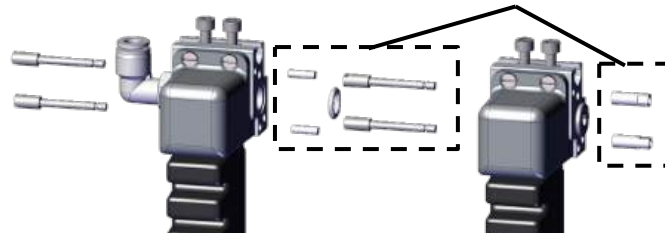
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

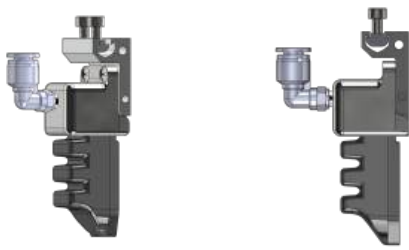
### PK-BV4 Accessory Package (optional)







## FM -B4V5 / 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-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

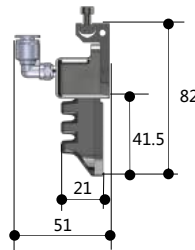
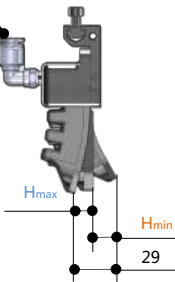


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

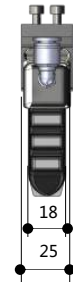


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

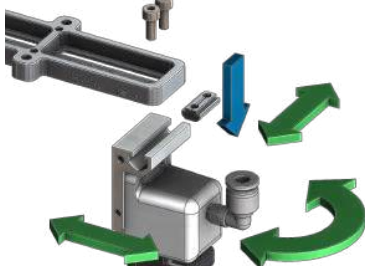
6mm Pipe Joint  
( rotatable )



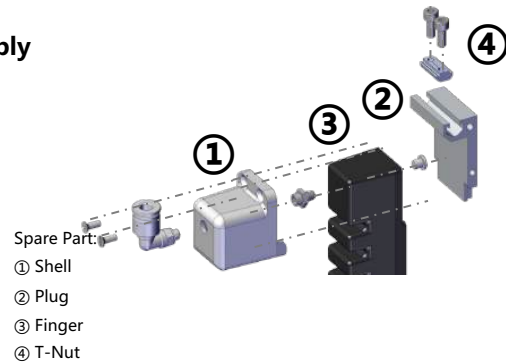
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

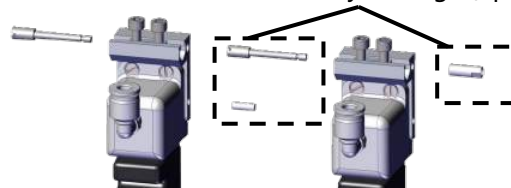


### Series combination:

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.

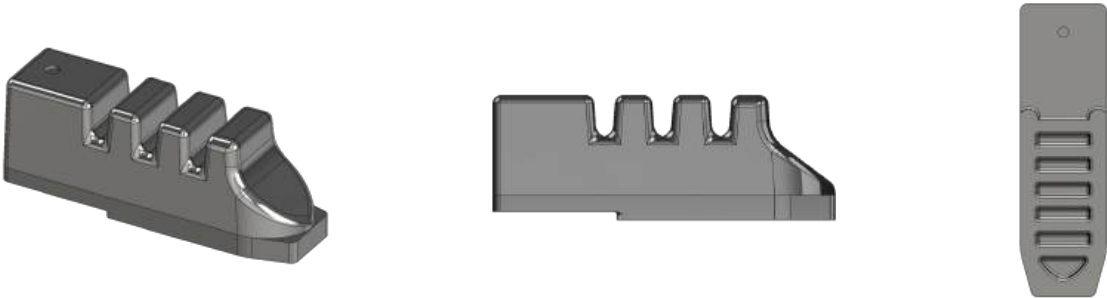
### PK-BV5 Accessory Package (optional)





F -B4T / LS1

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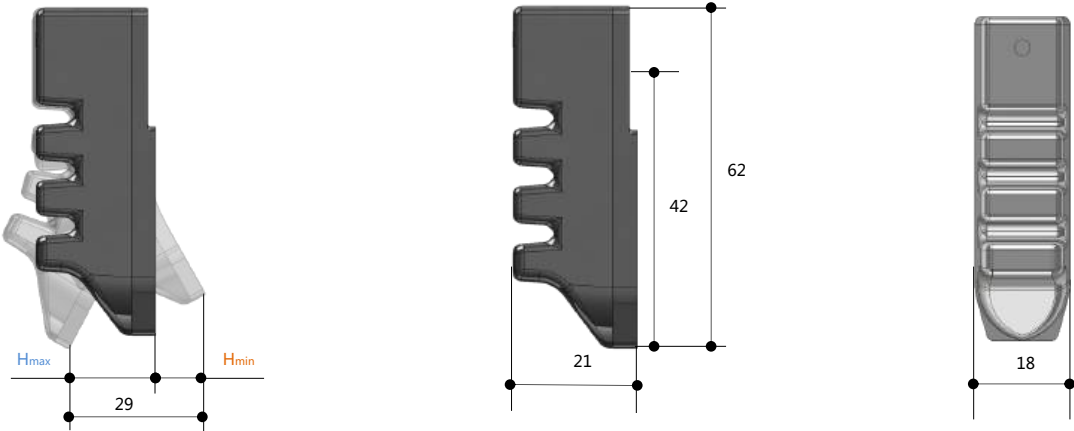


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-B4T/LS1[P]		F-B4T/LS1[PAS]			F-B4T/LS1[H]			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.

Dimension Parameters

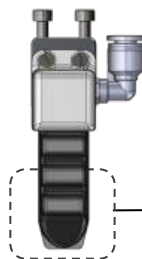
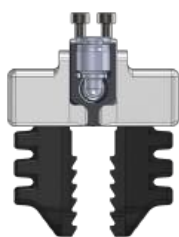




FM







## FM -B4V1 / 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-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

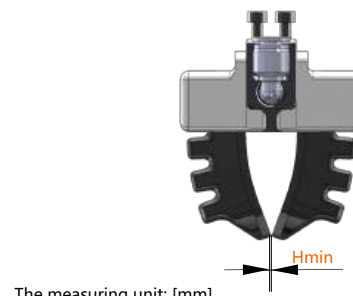
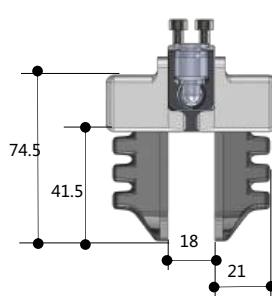
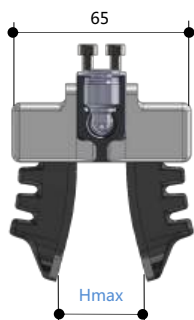
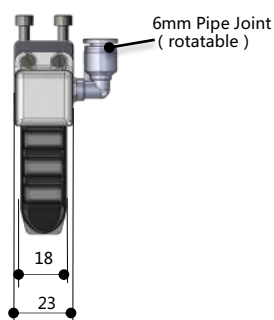


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



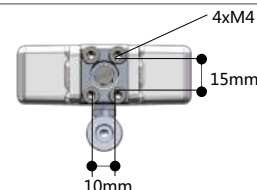
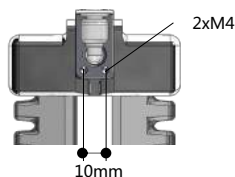
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

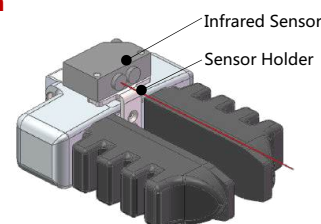
### Fixation



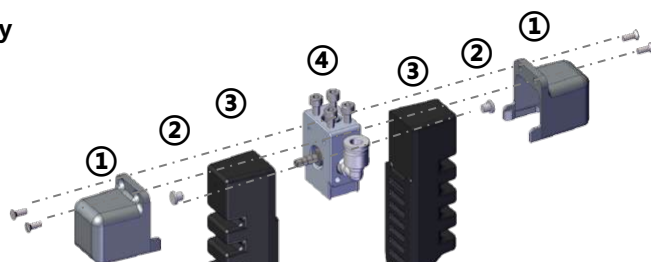
### Air Intake



### Sensor Installation



### Assembly



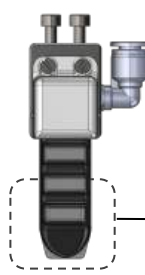
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B4V2 / LS8

Download 3D-CAD-models for free



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

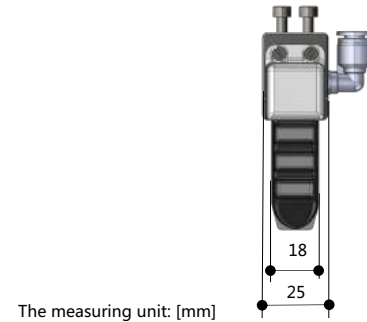
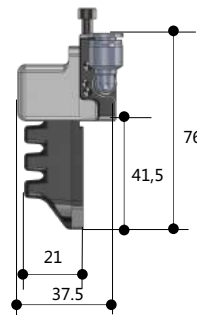
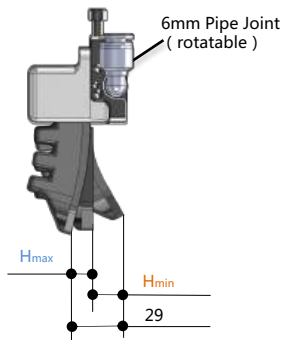
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V2/LS8[P]		FM-B4V2/LS8[PAS]			FM-B4V2/LS8[H]		FM-B4V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

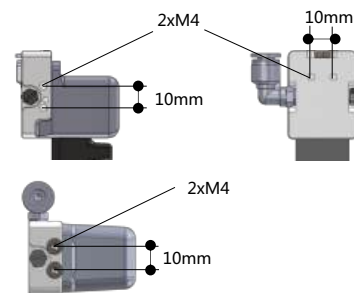
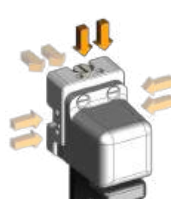


The measuring unit: [mm]

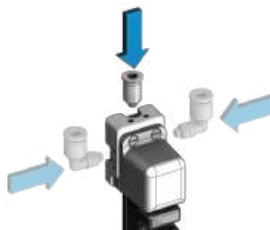
### Pose Adjustment



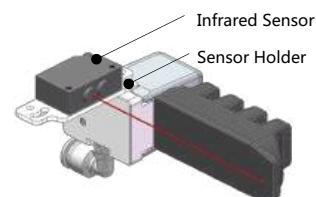
### Fixation



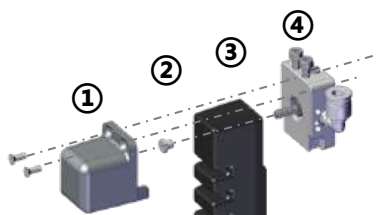
### Air Intake



### Sensor Installation



### Assembly



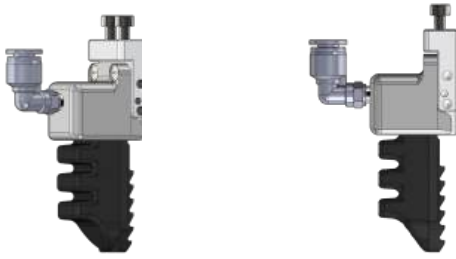
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## 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

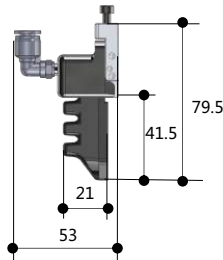
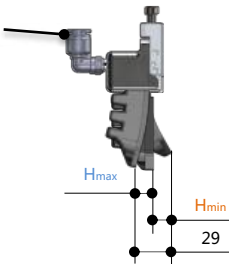


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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 )

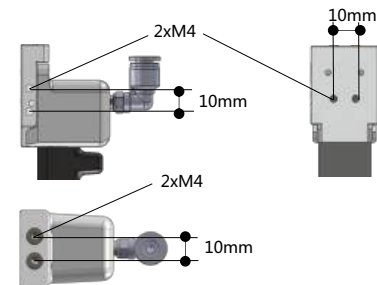


The measuring unit: [mm]

### Pose Adjustment



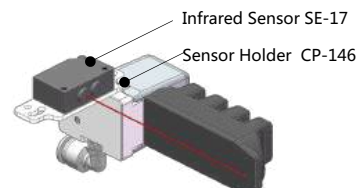
### Fixation



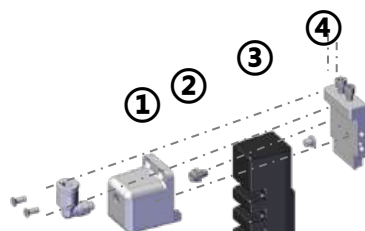
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

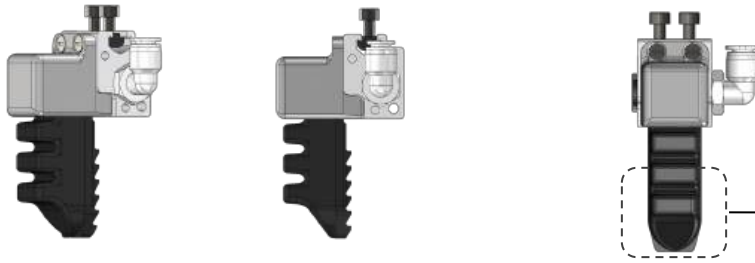
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -B4V4 / LS8

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

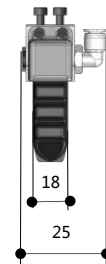
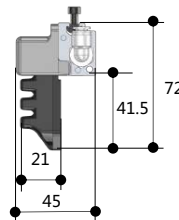
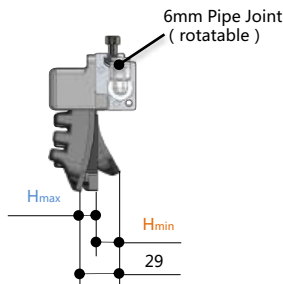
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B4V4/LS8[P]			FM-B4V4/LS8[PAS]			FM-B4V4/LS8[H]			FM-B4V4/LS8[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.

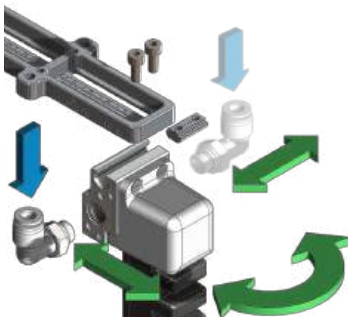


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

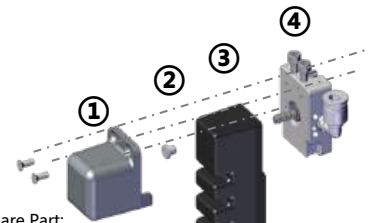


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

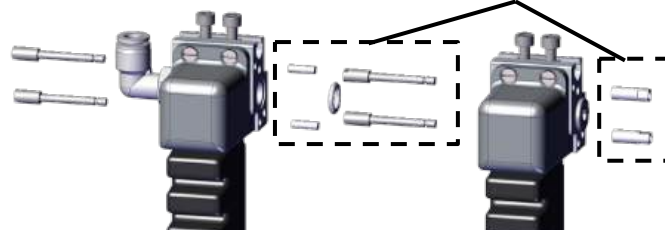
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

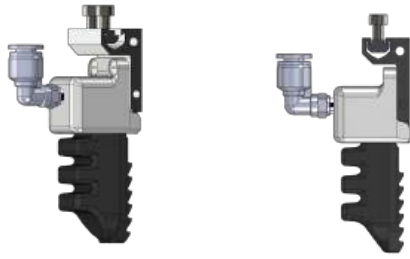
### PK-BV4 Accessory Package (optional)











## FM -B4V5 / 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-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

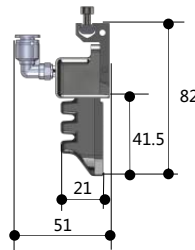
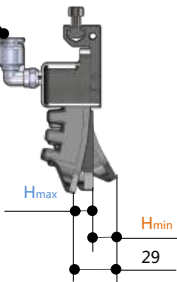


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

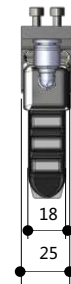


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

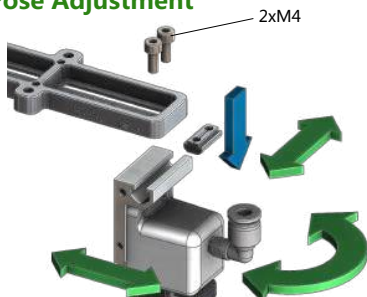
6mm Pipe Joint  
( rotatable )



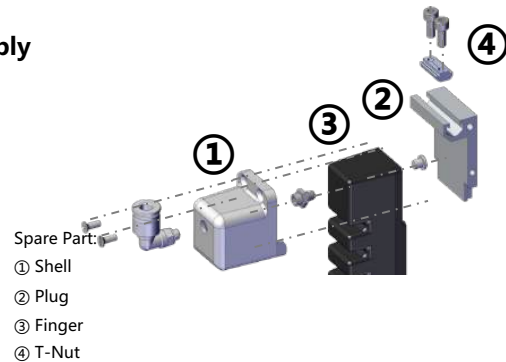
The measuring unit: [mm]



### Air Intake & Pose Adjustment



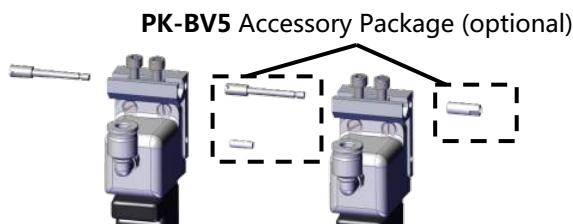
### Assembly



### 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.

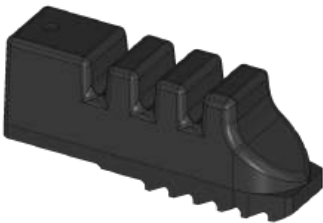
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









F -B4T / LS8

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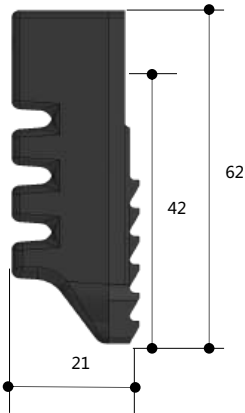
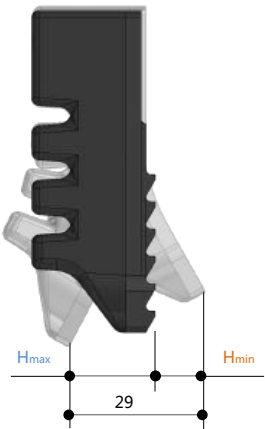


Finger Pattern		Features							
LS8	Special Form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.							
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material	
F-B4T/LS8[P]		F-B4T/LS8[PAS]			F-B4T/LS8[H]			F-B4T/LS8[HAS]	
Finger 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.

Dimension Parameters

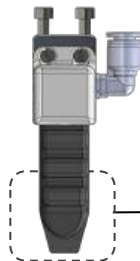


FM







## 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

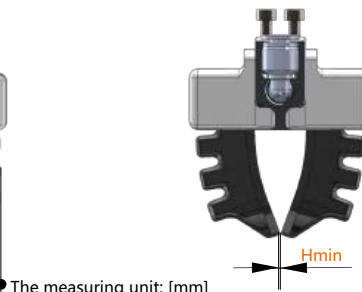
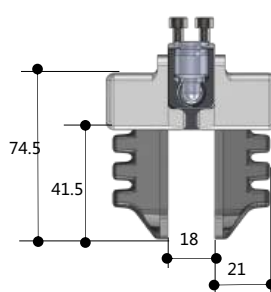
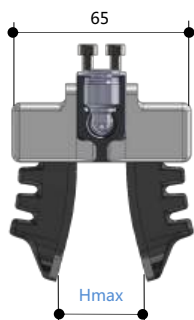
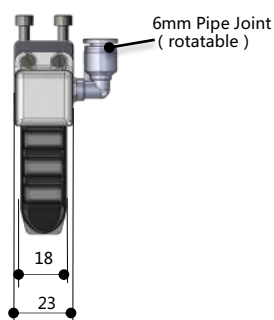


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



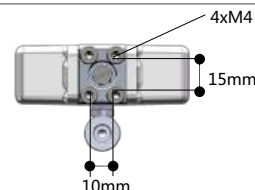
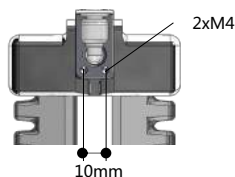
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

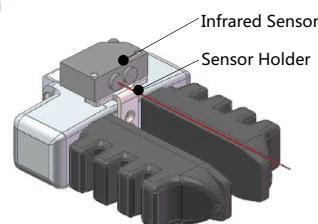
### Fixation



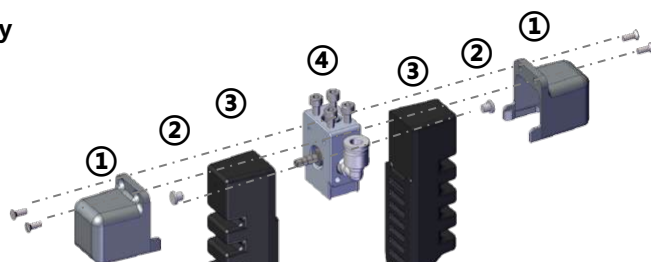
### Air Intake



### Sensor Installation



### Assembly



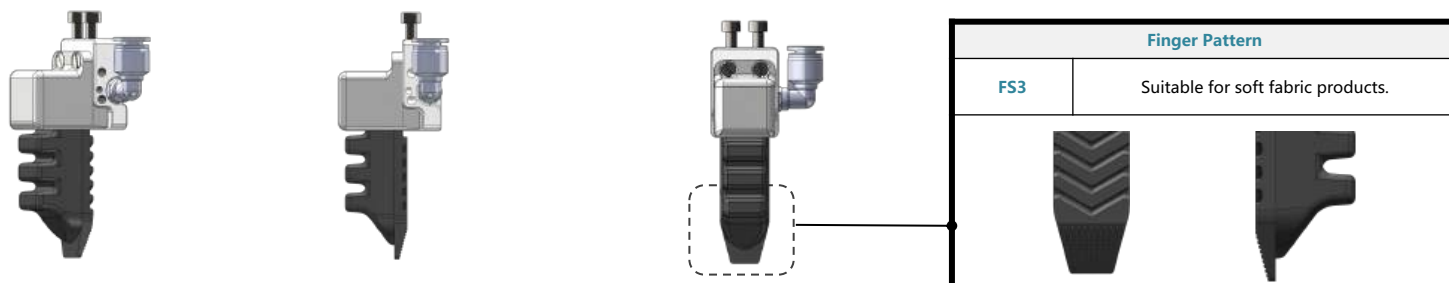
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B4V2 /FS3

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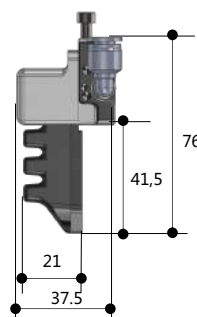
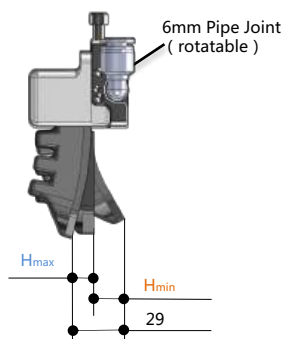
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V2/FS3[P]		FM-B4V2/FS3[PAS]			FM-B4V2/FS3[H]		FM-B4V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



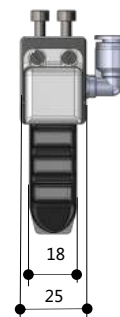
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



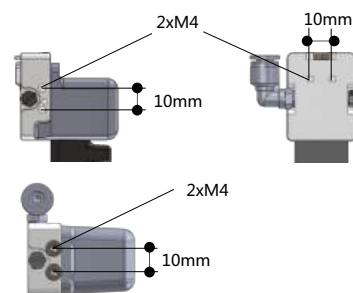
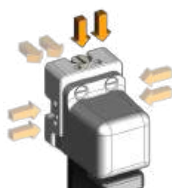
The measuring unit: [mm]



### Pose Adjustment



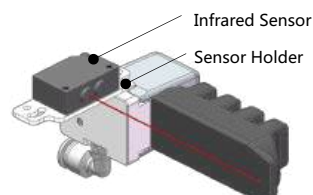
### Fixation



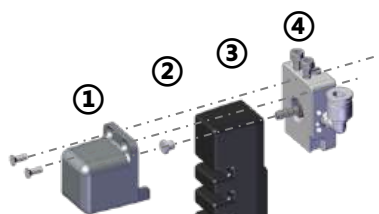
### Air Intake



### Sensor Installation

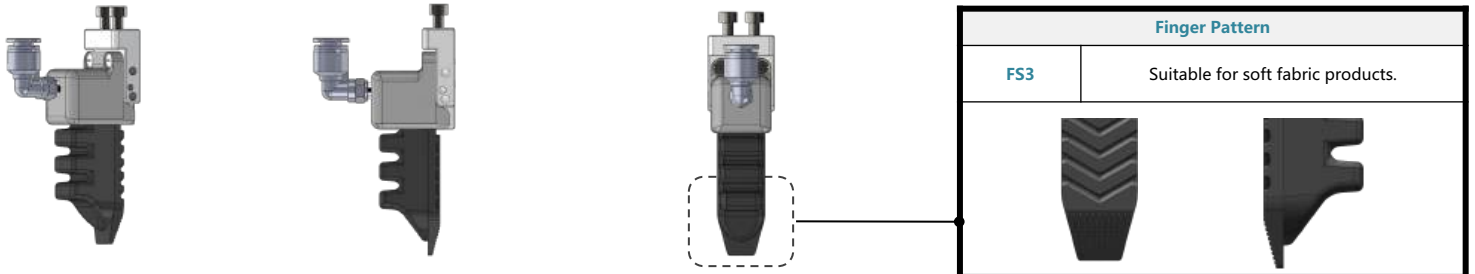


### Assembly







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		

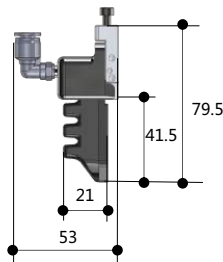
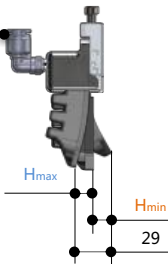


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

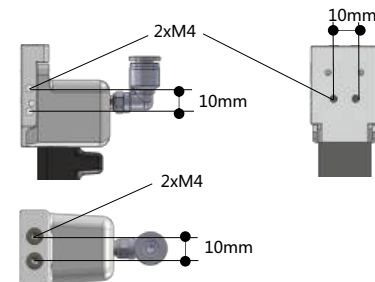


The measuring unit: [mm]

#### Pose Adjustment



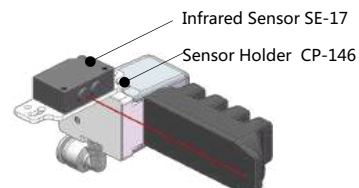
#### Fixation



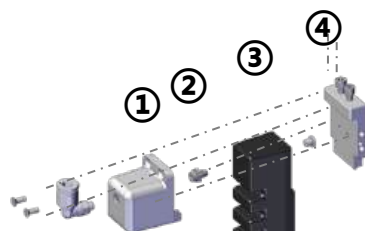
#### Air Intake



#### Sensor Installation



#### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





Finger Pattern	
FS3	Suitable for soft fabric products.

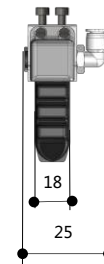
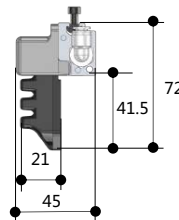
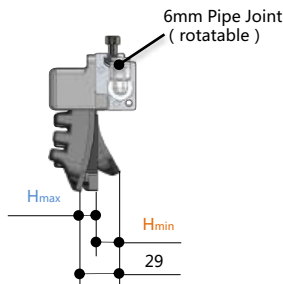
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V4/FS3[P]		FM-B4V4/FS3[PAS]			FM-B4V4/FS3[H]		FM-B4V4/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

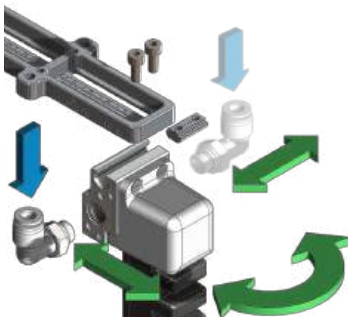


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

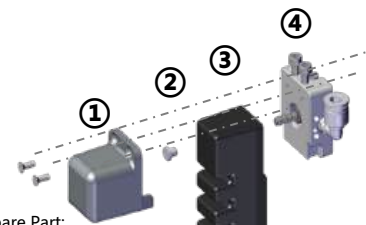


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

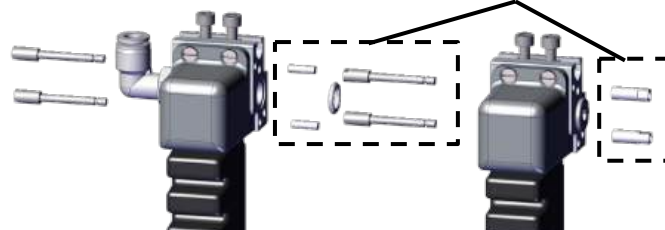
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### 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.

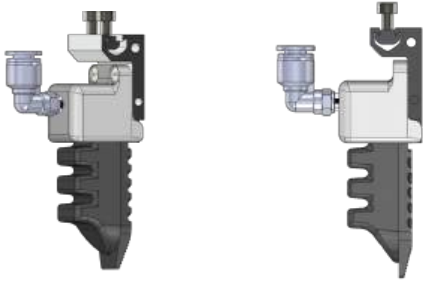
### PK-BV4 Accessory Package (optional)









## FM -B4V5 / 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-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

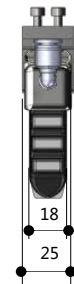
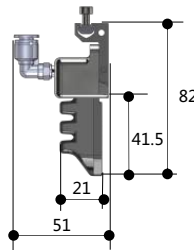
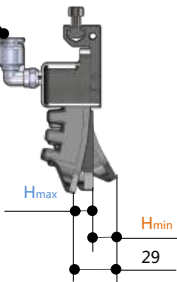


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

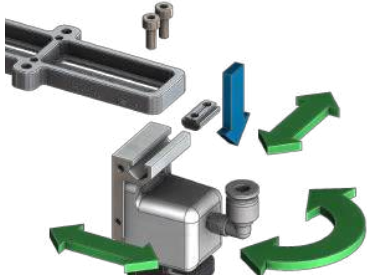
6mm Pipe Joint  
( rotatable )



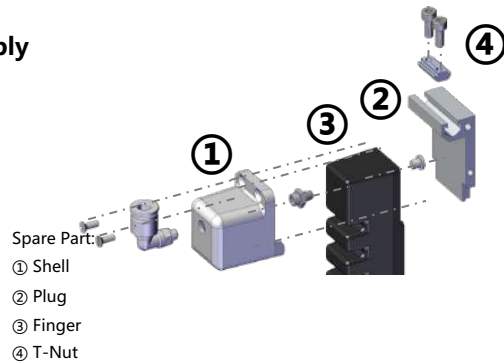
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



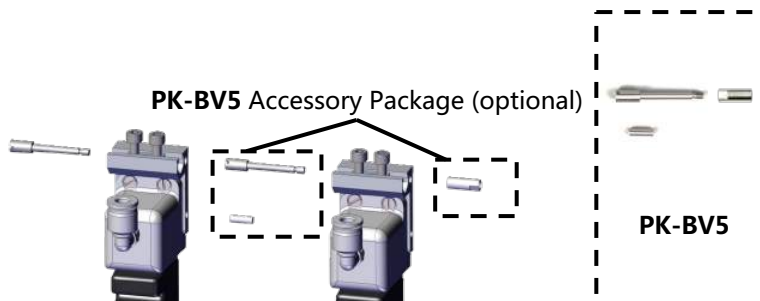
### Assembly



### 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.

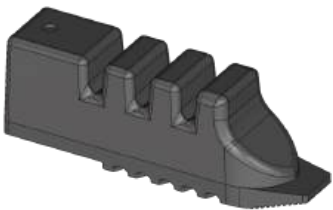
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







F -B4T / FS3

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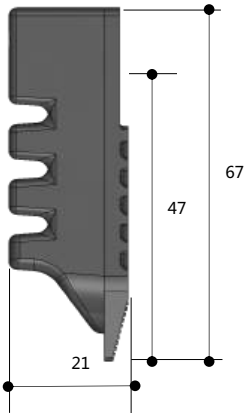
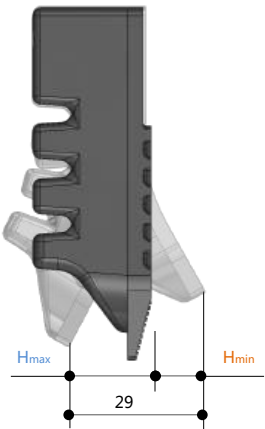


Finger Pattern			Features						
FS3	Special Form		Suitable for soft fabric products.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-B4T/FS3[P]			F-B4T/FS3[PAS]		F-B4T/FS3[H]			F-B4T/FS3[HAS]	
Finger color: Black					Finger color: Grey				
Positive Pressure 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.

Dimension Parameters

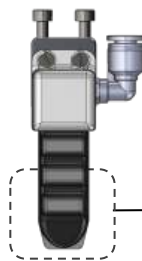
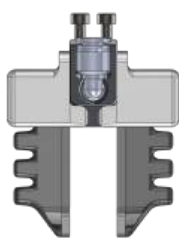


FM







## FM -B4V1 / 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-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

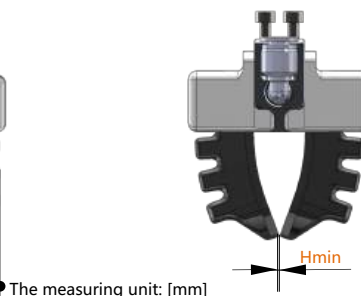
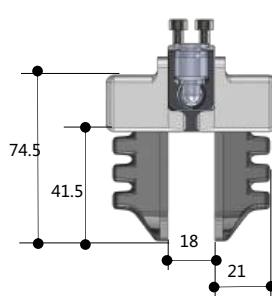
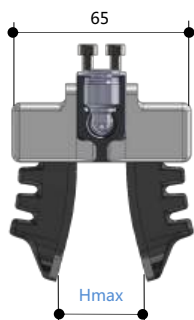
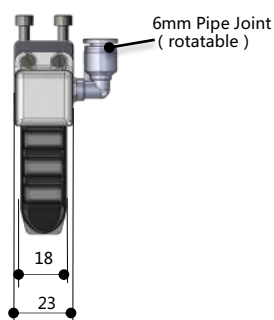


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



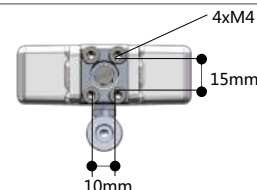
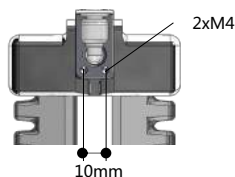
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

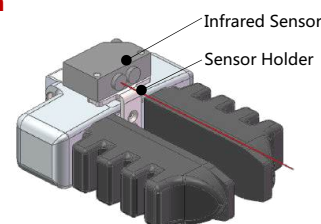
### Fixation



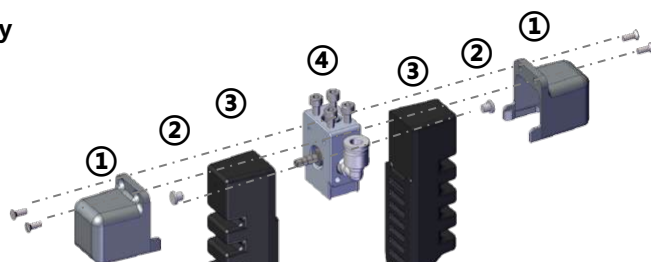
### Air Intake



### Sensor Installation



### Assembly



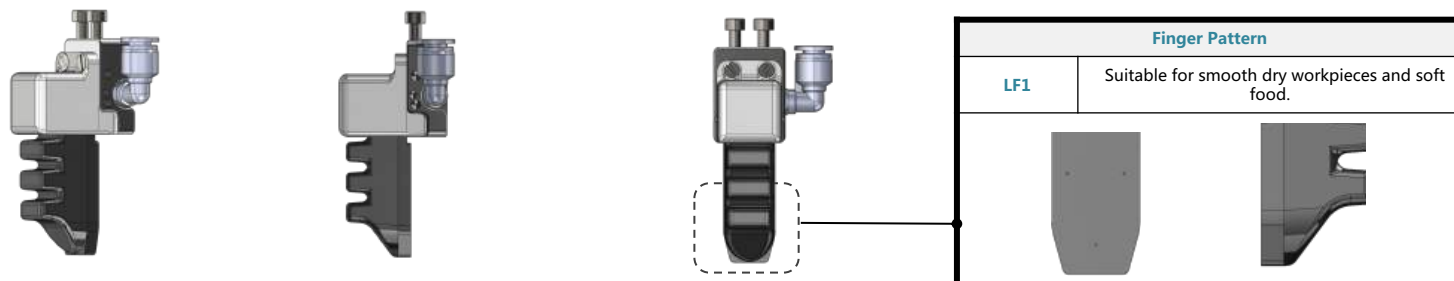
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B4V2 / LF1

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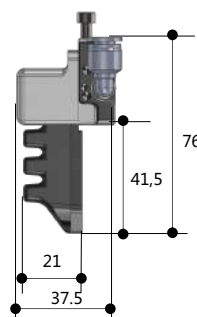
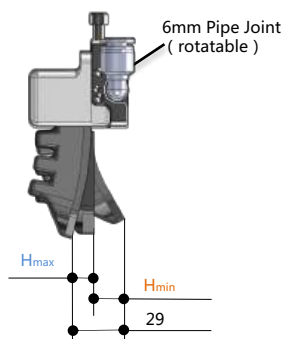
Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material			
FM-B4V2/LF1[P]		FM-B4V2/LF1[PAS]		FM-B4V2/LF1[H]		FM-B4V2/LF1[HAS]			
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



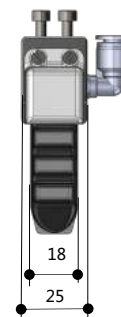
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



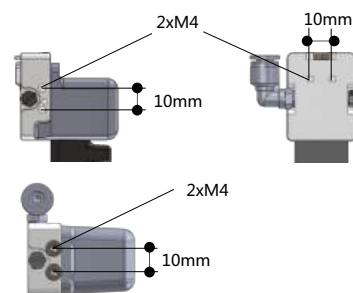
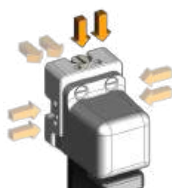
The measuring unit: [mm]



### Pose Adjustment



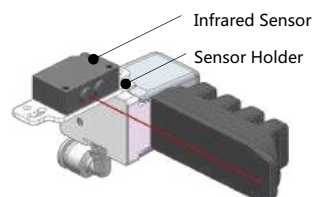
### Fixation



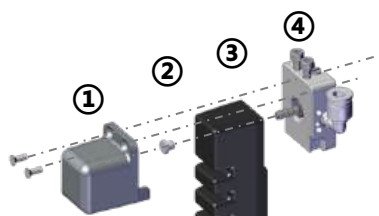
### Air Intake



### Sensor Installation



### Assembly



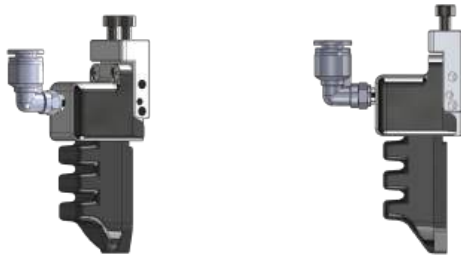
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## 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

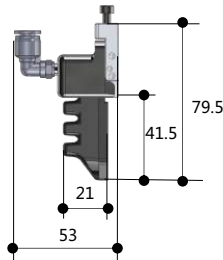
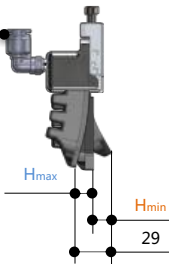


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

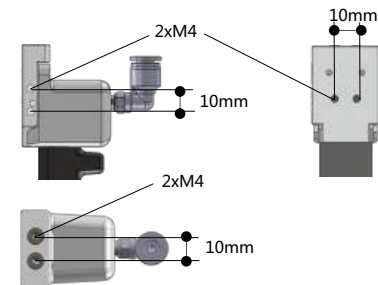


The measuring unit: [mm]

### Pose Adjustment



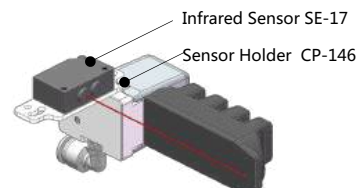
### Fixation



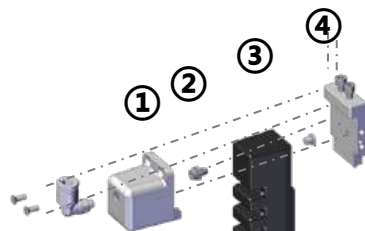
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

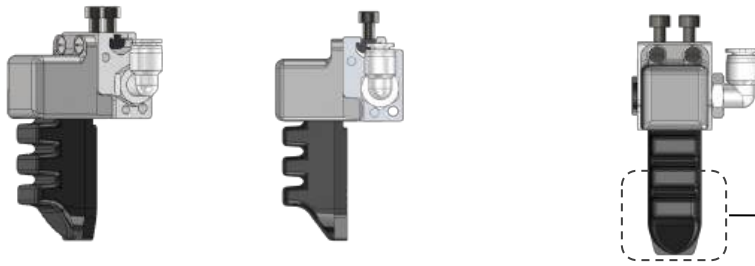
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -B4V4 / LF1

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

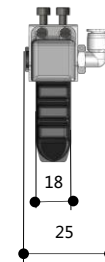
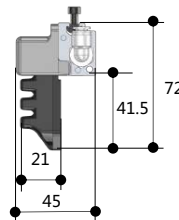
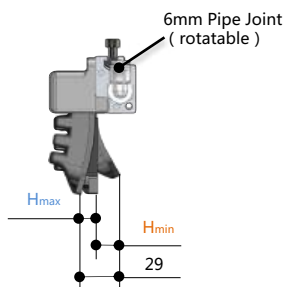
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V4/LF1[P]		FM-B4V4/LF1[PAS]			FM-B4V4/LF1[H]		FM-B4V4/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

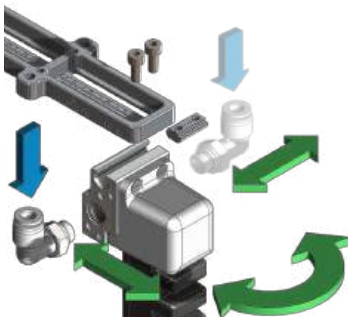


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

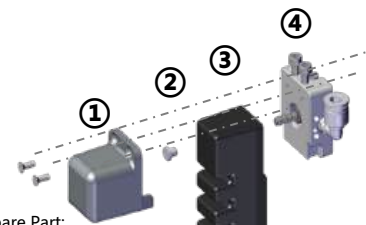


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



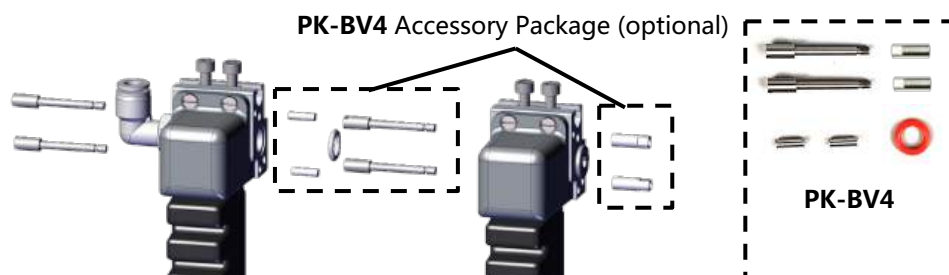
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

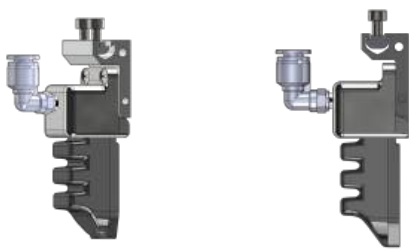
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









## FM -B4V5 / 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-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

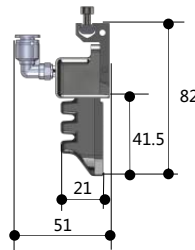
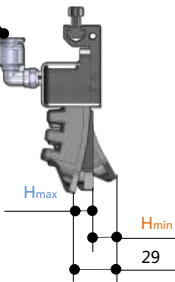


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

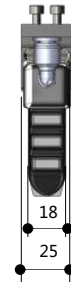


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

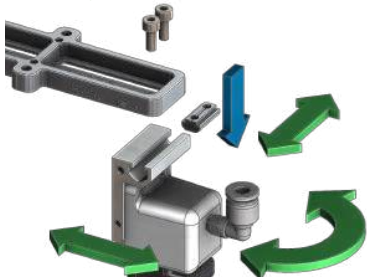
6mm Pipe Joint  
( rotatable )



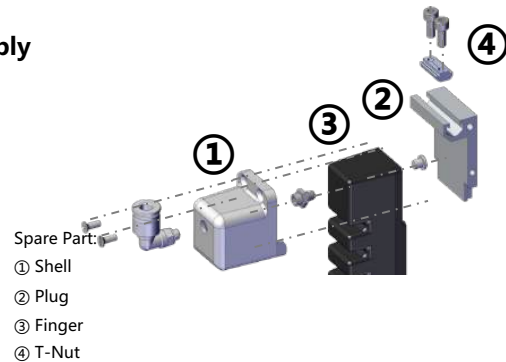
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

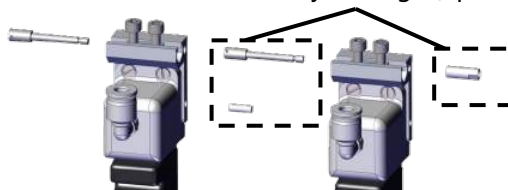


### Series combination:

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.

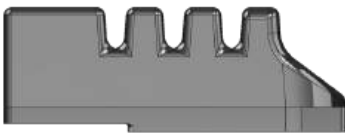
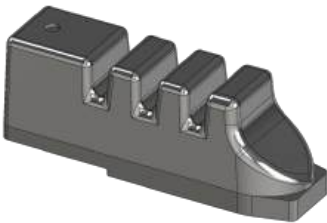
### PK-BV5 Accessory Package (optional)





F -B4T / LF1

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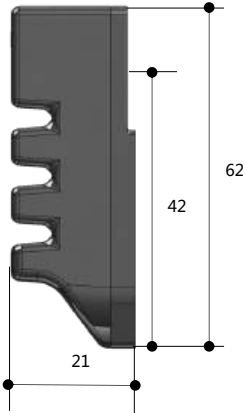
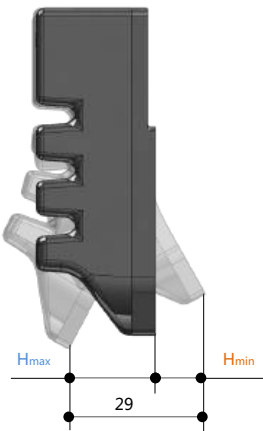


Finger Pattern			Features						
LF1	Special Form		Suitable for smooth dry workpieces and soft food.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-B4T/LF1[P]			F-B4T/LF1[PAS]		F-B4T/LF1[H]			F-B4T/LF1[HAS]	
Finger color: Black					Finger color: Grey				
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	📦 200	16	16	10	⚠️ 260	📦 240	16

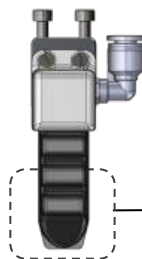
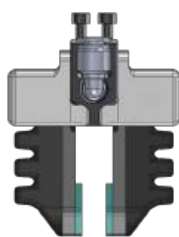
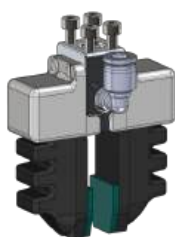
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



📦 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.





Dimension Parameters



FM



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

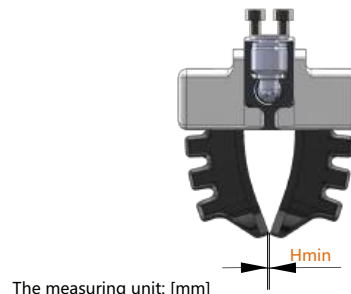
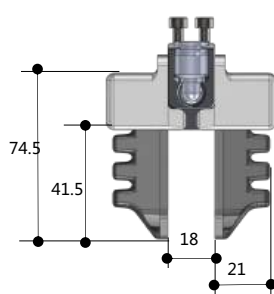
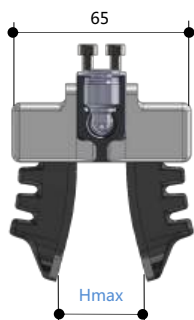
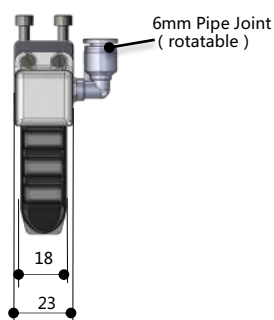


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



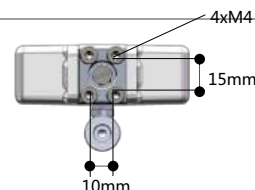
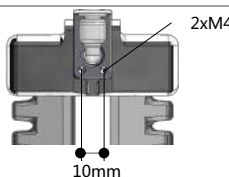
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

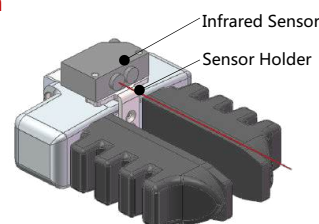
#### Fixation



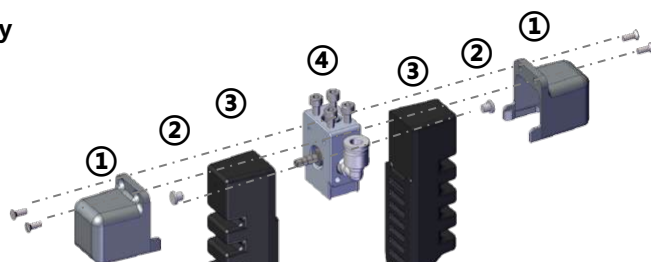
#### Air Intake



#### Sensor Installation

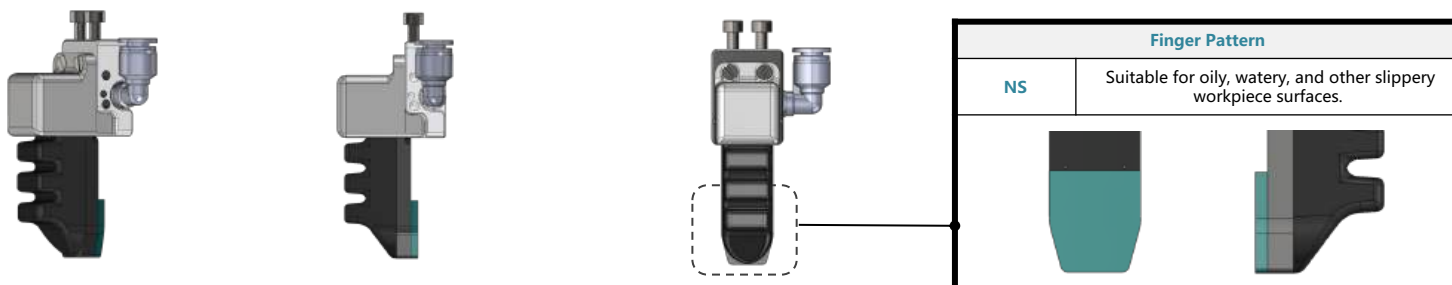






#### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



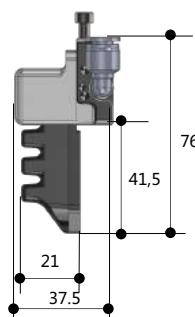
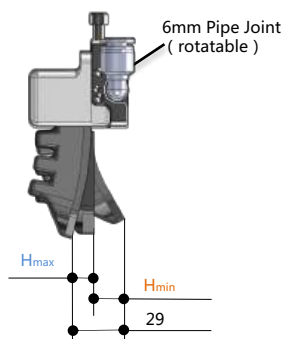
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V2/NS[P]		FM-B4V2/NS[PAS]			FM-B4V2/NS[H]		FM-B4V2/NS[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [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.

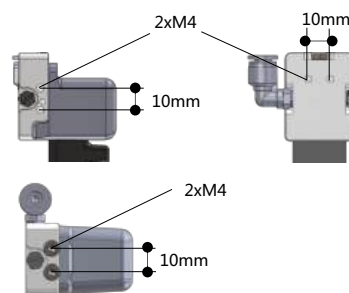
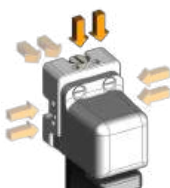


The measuring unit: [mm]

### Pose Adjustment



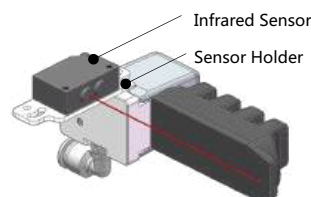
### Fixation



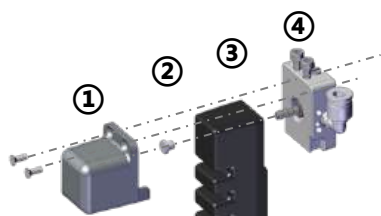
### Air Intake



### Sensor Installation

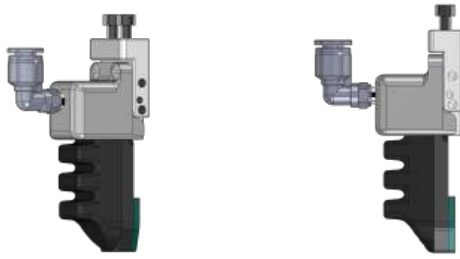


### Assembly







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-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

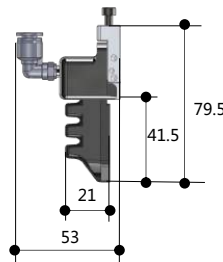
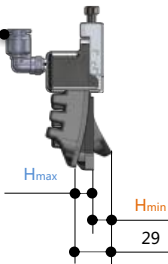


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

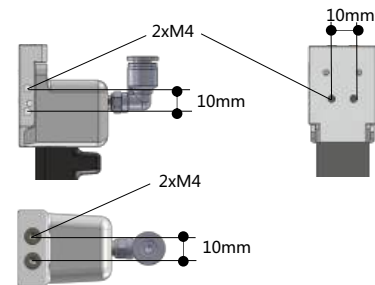


The measuring unit: [mm]

### Pose Adjustment



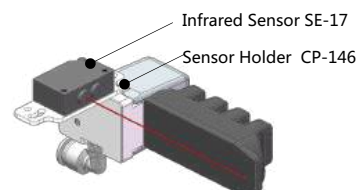
### Fixation



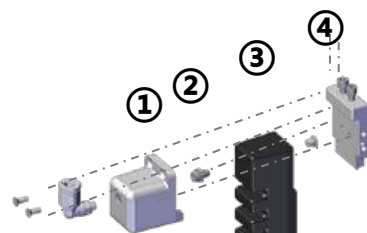
### Air Intake



### Sensor Installation



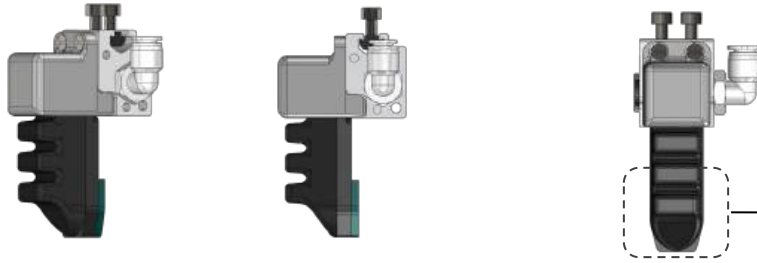
### Assembly





Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





Finger Pattern	
NS	Suitable for oily, watery, and other slippery workpiece surfaces.

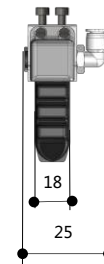
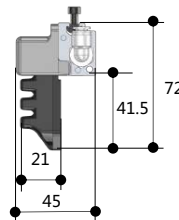
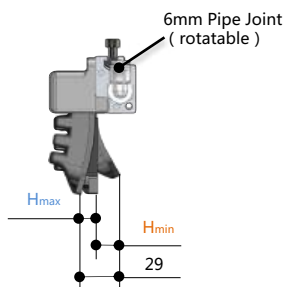
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B4V4/NS[P]		FM-B4V4/NS[PAS]			FM-B4V4/NS[H]		FM-B4V4/NS[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [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.

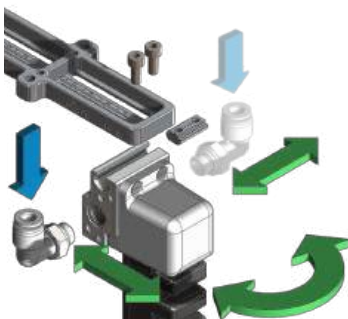


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

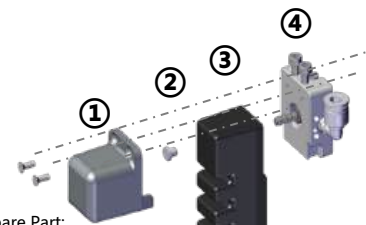


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



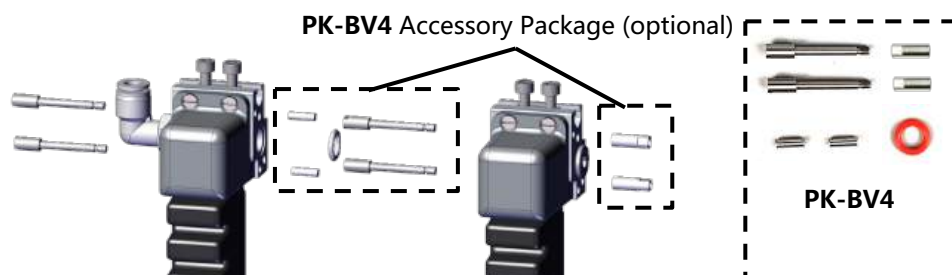
Spare Part:

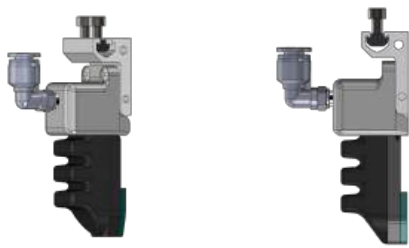
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:





- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.





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

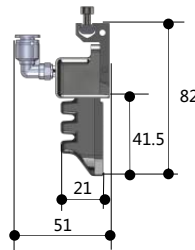
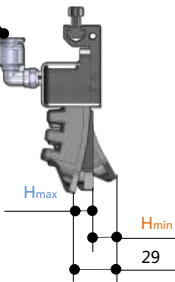


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

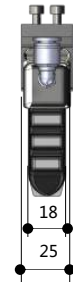


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

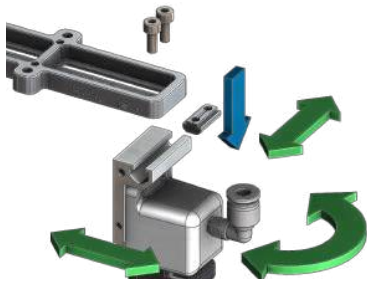
6mm Pipe Joint  
( rotatable )



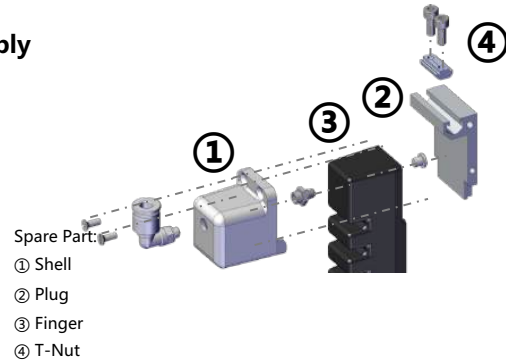
The measuring unit: [mm]



### Air Intake & Pose Adjustment



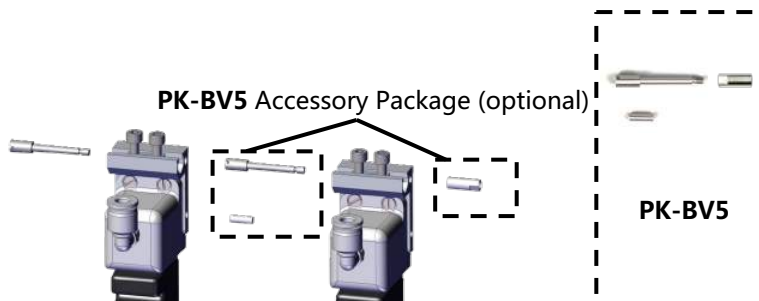
### Assembly



### 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.

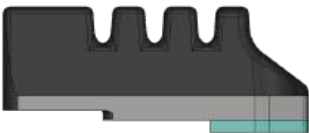
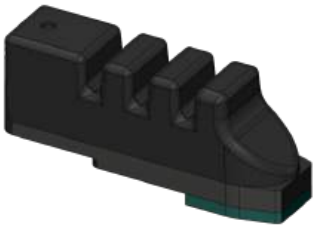
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







F -B4T / NS

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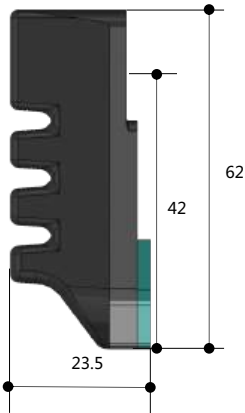
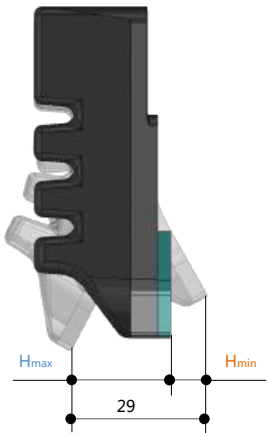


Finger Pattern			Features							
NS	Special Form		Suitable for oily, watery, and other slippery workpiece surfaces.							
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material		
F-B4T/LS1[P]			F-B4T/LS1[PAS]		F-B4T/LS1[H]			F-B4T/LS1[HAS]		
Finger color: Black					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.

Dimension Parameters

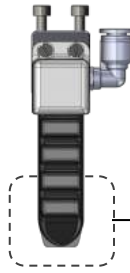
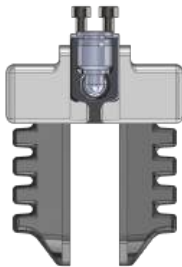


FM







## FM -B5V1 / 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-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		

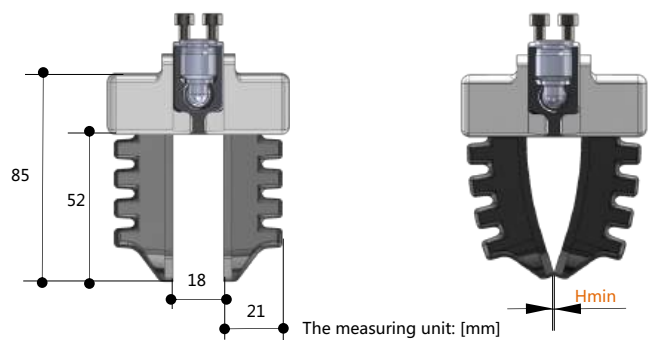
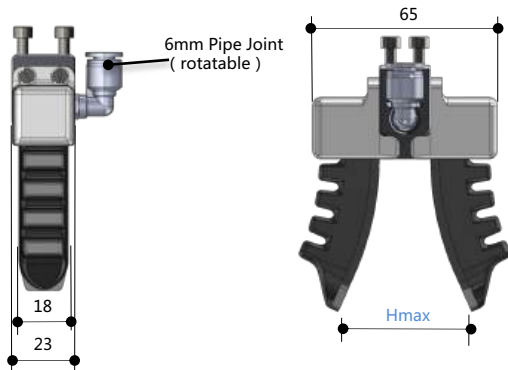


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

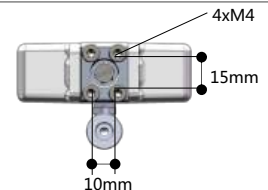
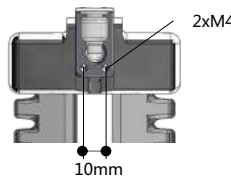


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



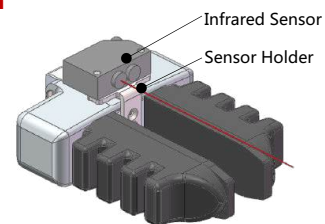
### Fixation



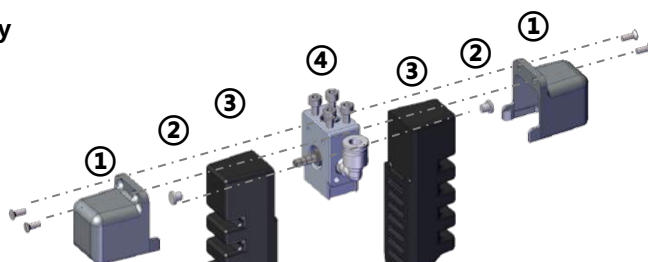
### Air Intake



### Sensor Installation



### Assembly



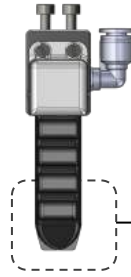
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B5V2 / LS1

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

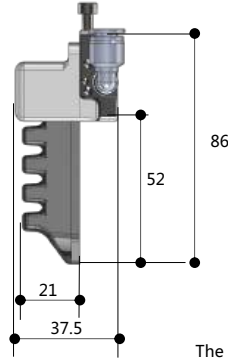
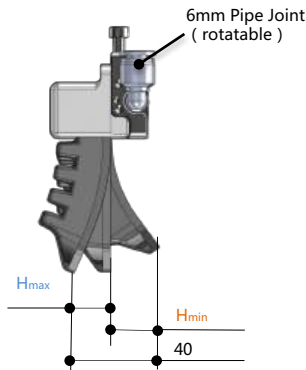
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B5V2/LS1[P]		FM-B5V2/LS1[PAS]			FM-B5V2/LS1[H]		FM-B5V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



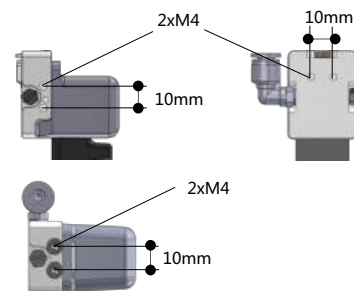
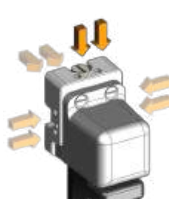
The measuring unit: [mm]



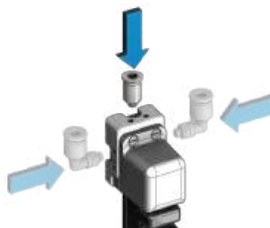
### Pose Adjustment



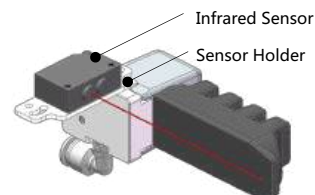
### Fixation



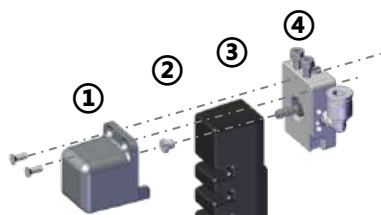
### Air Intake



### Sensor Installation



### Assembly



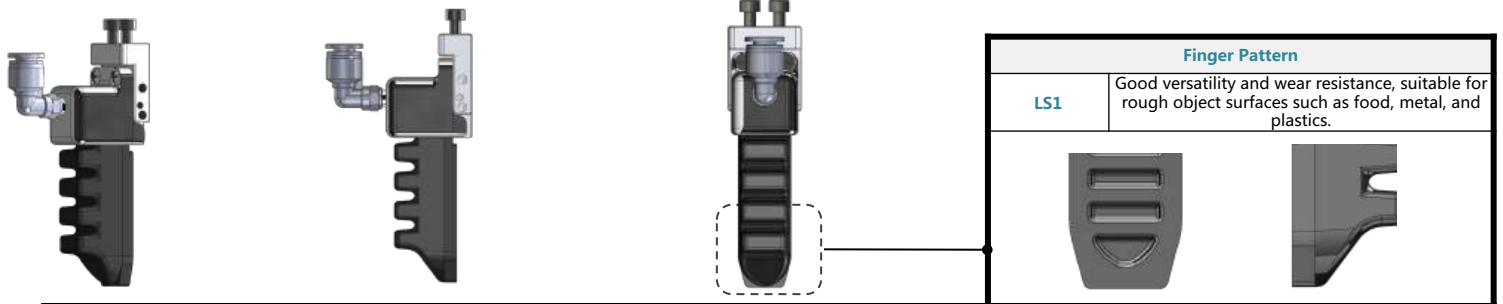
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## 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

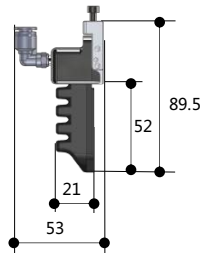
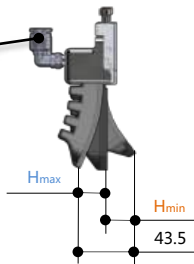


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



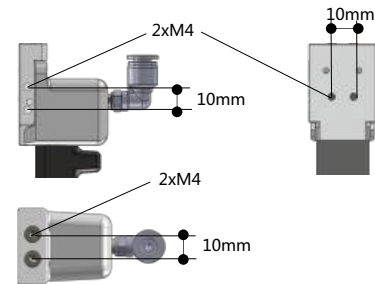
The measuring unit: [mm]



### Pose Adjustment



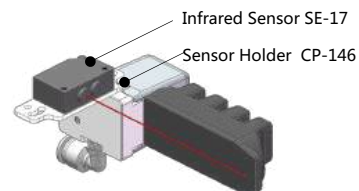
### Fixation



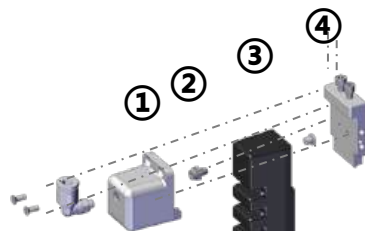
### Air Intake



### Sensor Installation



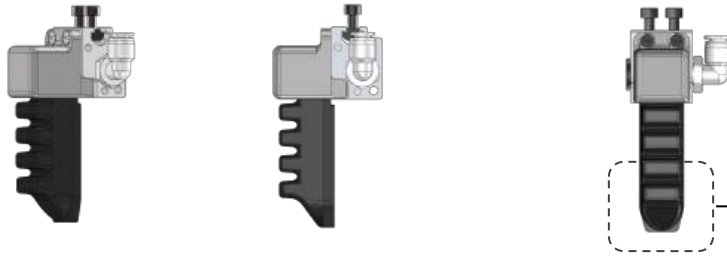
### Assembly





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.

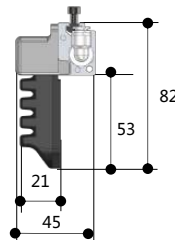
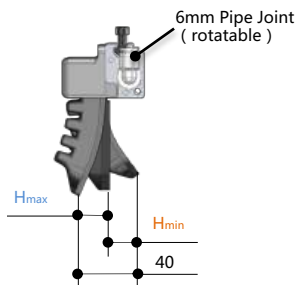
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B5V4/LS1[P]			FM-B5V4/LS1[PAS]			FM-B5V4/LS1[H]			FM-B5V4/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



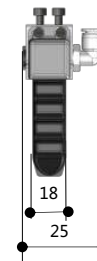
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



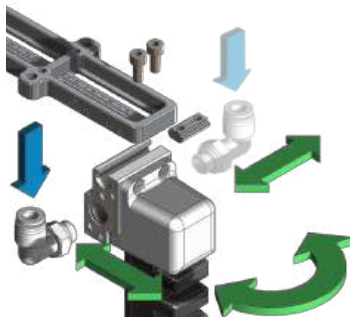
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



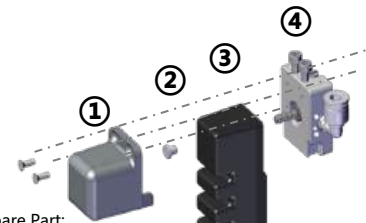
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

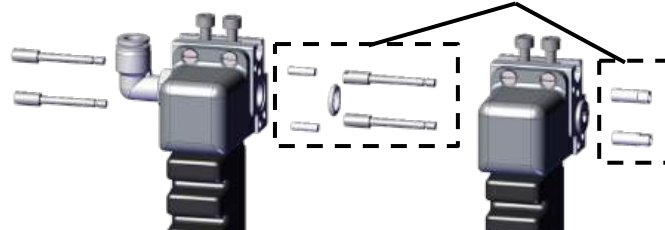
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### 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.

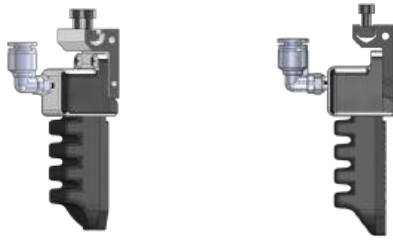
### PK-BV4 Accessory Package (optional)









## FM -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		
FM-B5V5/LS1[P]		FM-B5V5/LS1[PAS]			FM-B5V5/LS1[H]		FM-B5V5/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	52	24	14	 260	 230	52

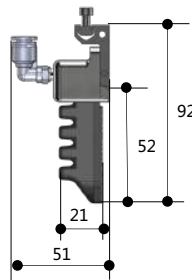
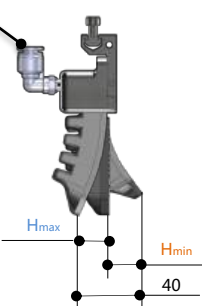


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

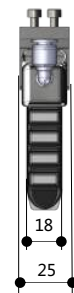


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

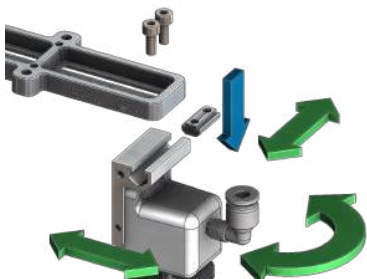
6mm Pipe Joint  
( rotatable )



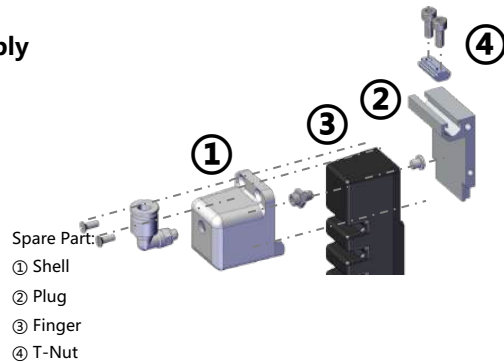
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

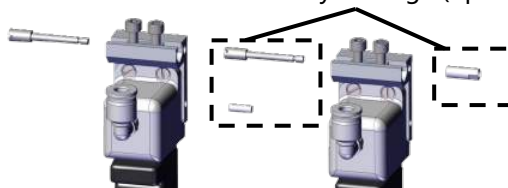


### Series combination:

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.

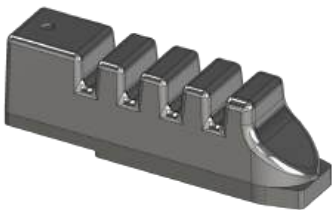
### PK-BV5 Accessory Package (optional)





F -B5T / LS1

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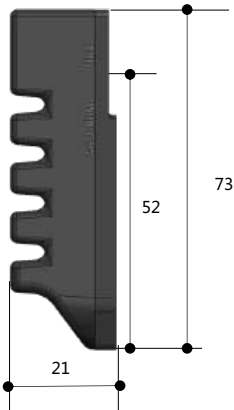
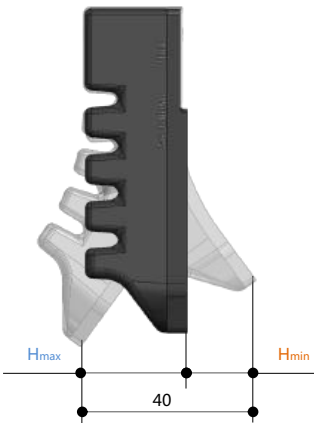


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-B5T/LS1[P]		F-B5T/LS1[PAS]			F-B5T/LS1[H]			F-B5T/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	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



## 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

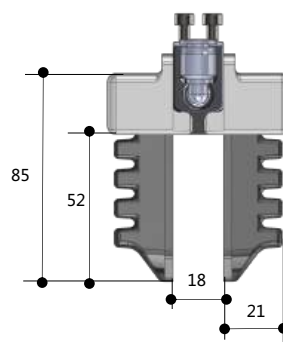
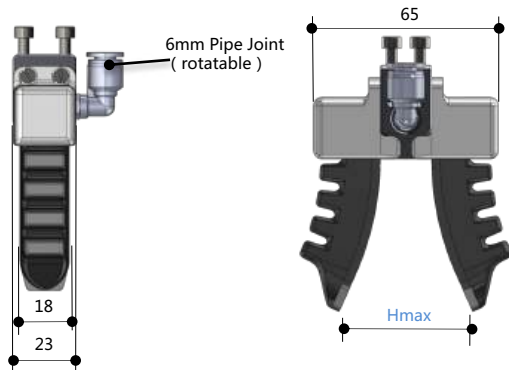


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



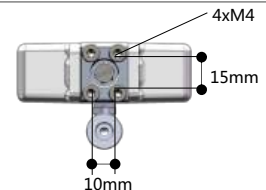
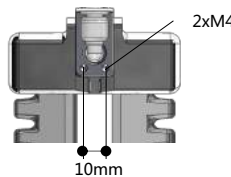
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

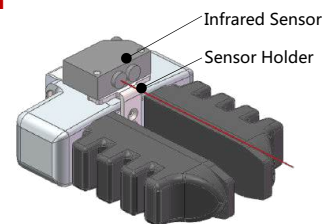
### Fixation



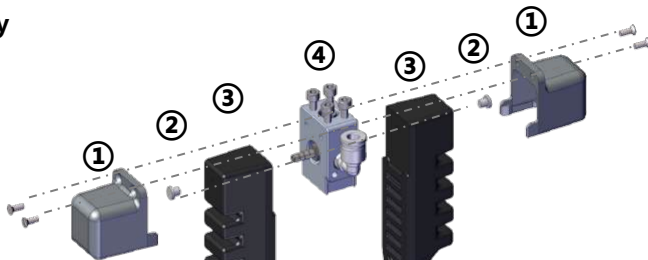
### Air Intake



### Sensor Installation



### Assembly



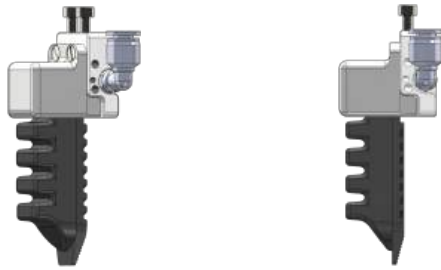
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B5V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

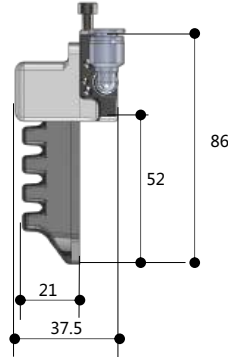
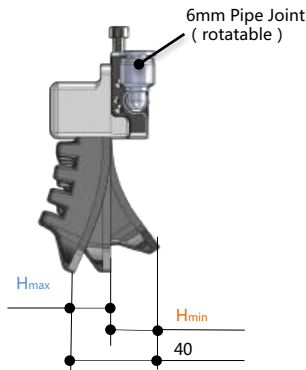
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B5V2/FS3[P]		FM-B5V2/FS3[PAS]			FM-B5V2/FS3[H]		FM-B5V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



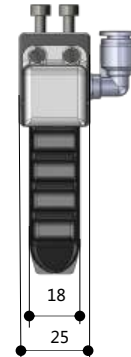
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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



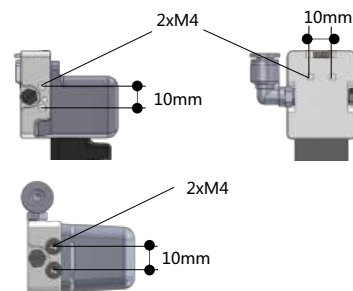
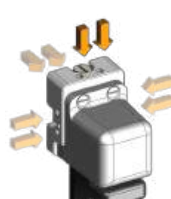
The measuring unit: [mm]



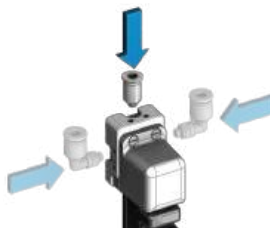
### Pose Adjustment



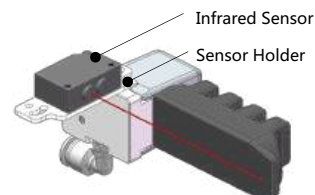
### Fixation



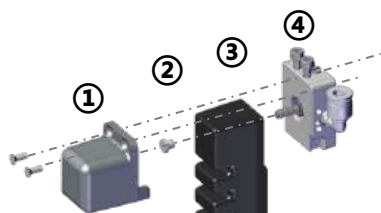
### Air Intake



### Sensor Installation



### Assembly



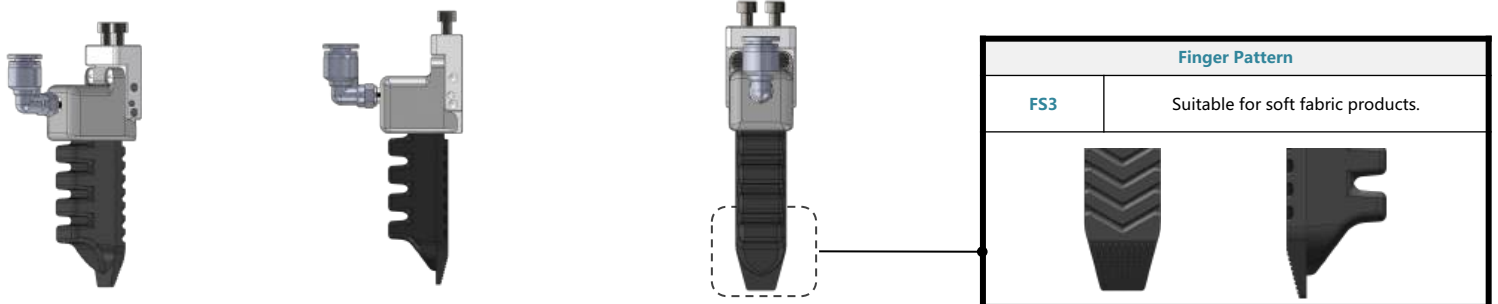
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -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

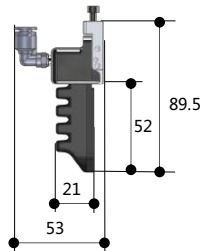
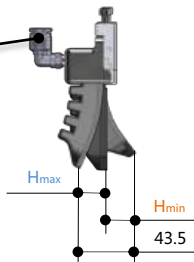


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



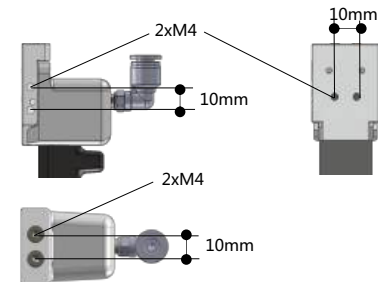
The measuring unit: [mm]



### Pose Adjustment



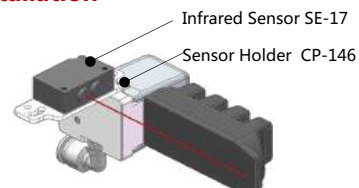
### Fixation



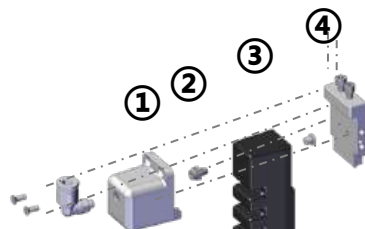
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

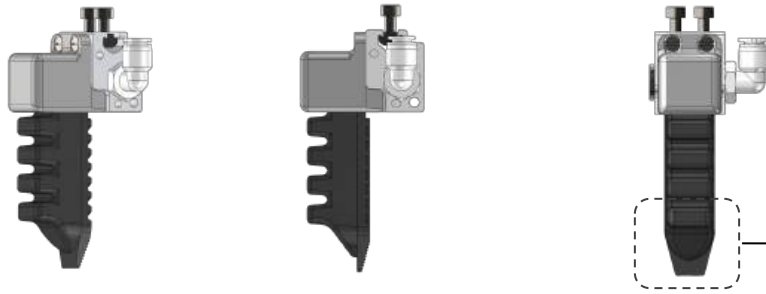
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B5V4 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

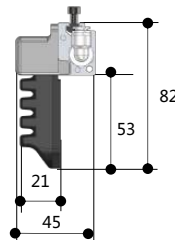
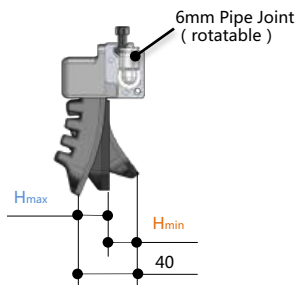
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B5V4/FS3[P]		FM-B5V4/FS3[PAS]			FM-B5V4/FS3[H]		FM-B5V4/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



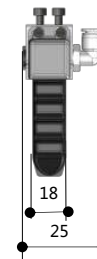
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



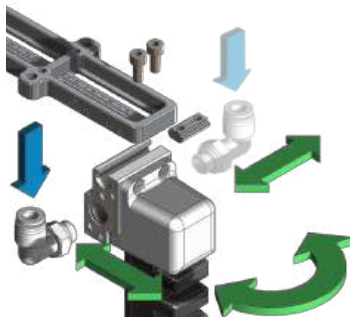
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



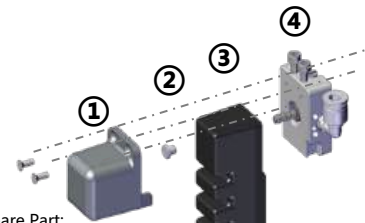
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

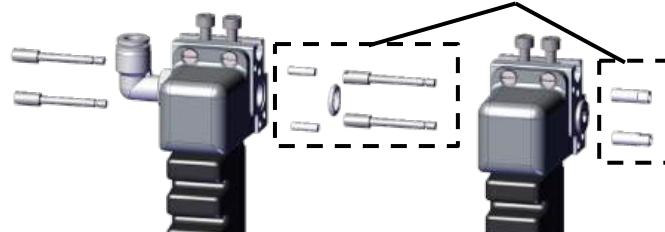
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

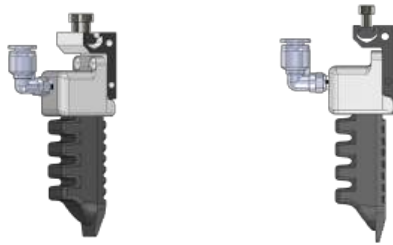
### Series combination:

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

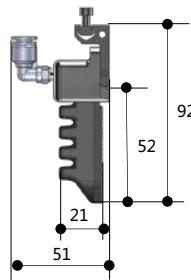
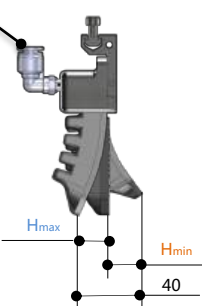


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

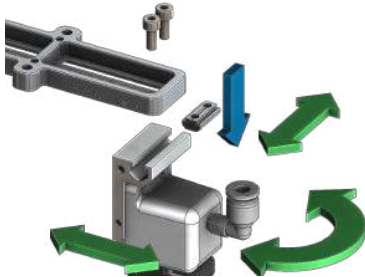
6mm Pipe Joint  
( rotatable )



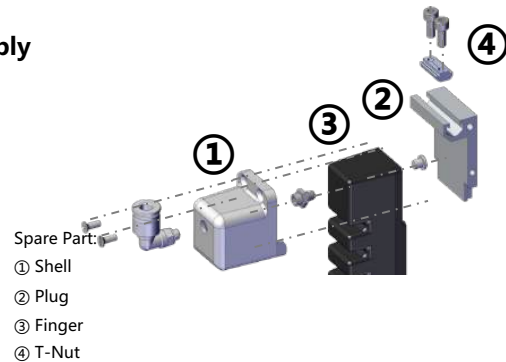
The measuring unit: [mm]



### Air Intake & Pose Adjustment



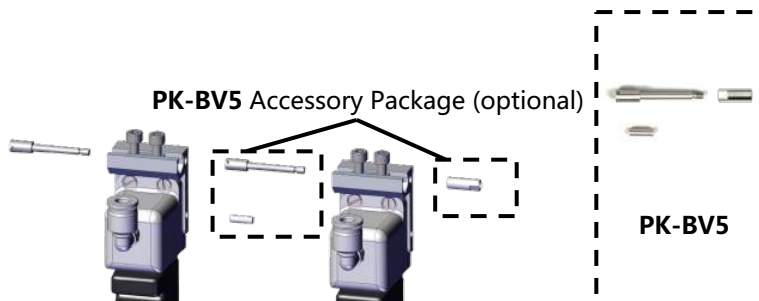
### Assembly



### 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.

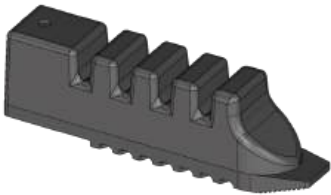
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









F -B5T / FS3

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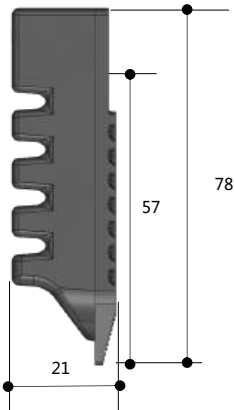
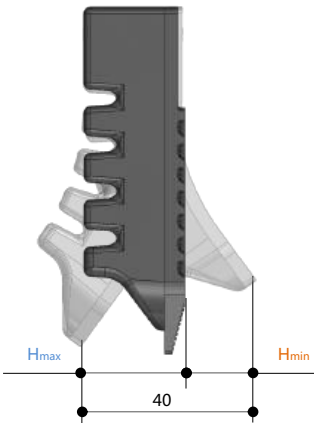


Finger Pattern		Features							
FS3	Special Form	Suitable for soft fabric products.							
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material	
F-B5T/FS3[P]		F-B5T/FS3[PAS]			F-B5T/FS3[H]			F-B5T/FS3[HAS]	
Finger color: Black					Finger color: Grey				
Positive Pressure 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.

Dimension Parameters

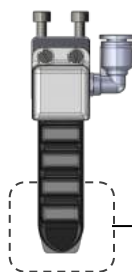
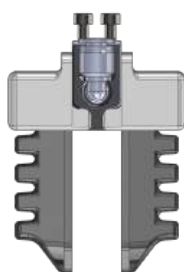
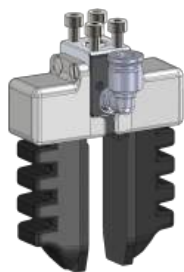


FM







## FM -B5V1 / 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-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

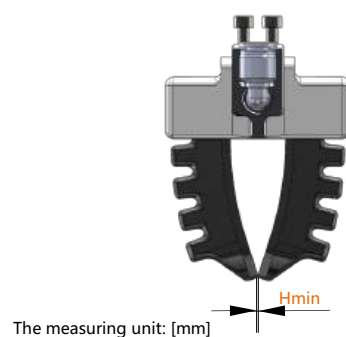
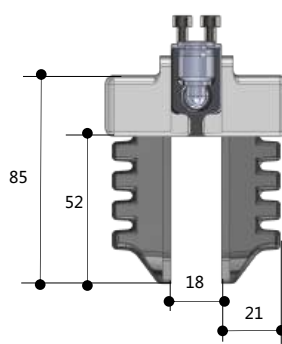
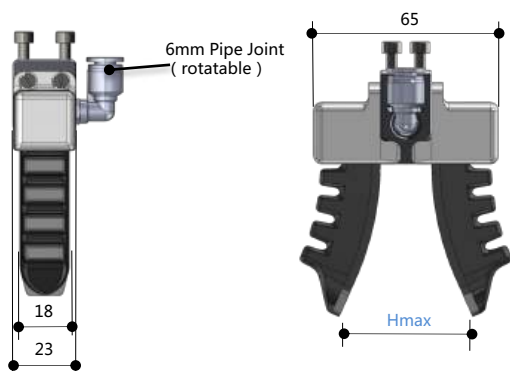


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

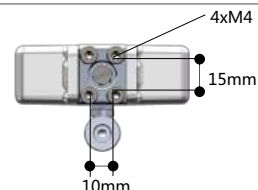
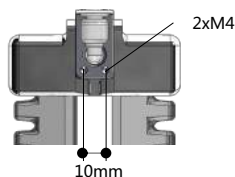


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



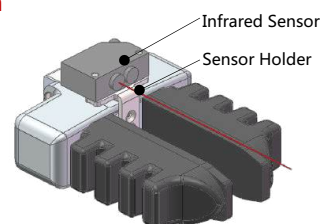
### Fixation



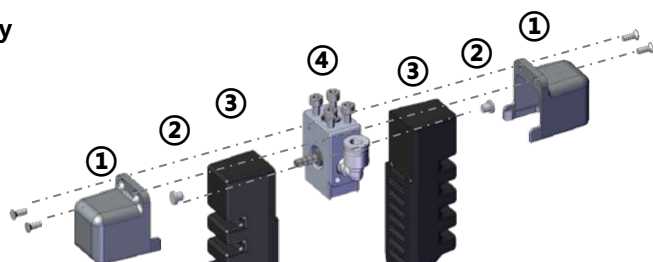
### Air Intake



### Sensor Installation



### Assembly



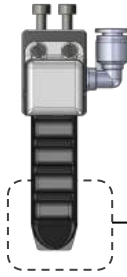
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B5V2 / LF1

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

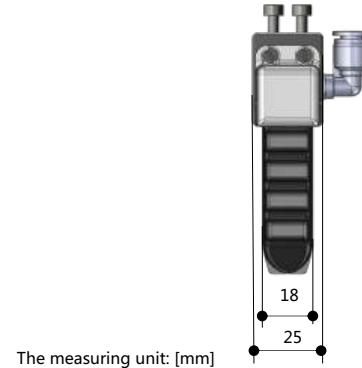
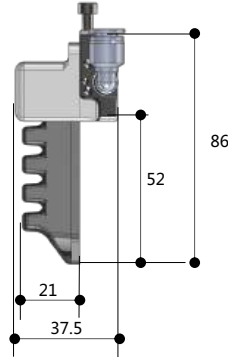
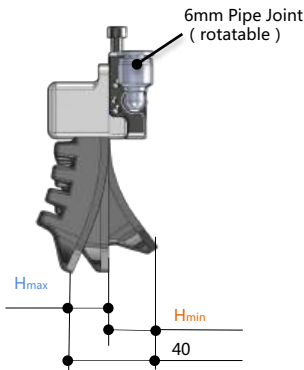
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B5V2/LF1[P]		FM-B5V2/LF1[PAS]			FM-B5V2/LF1[H]		FM-B5V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

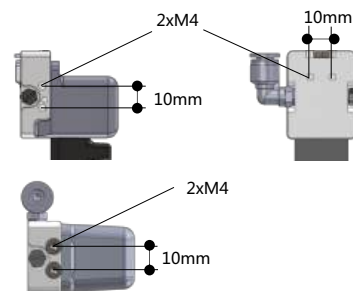
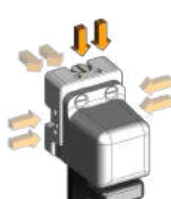


The measuring unit: [mm]

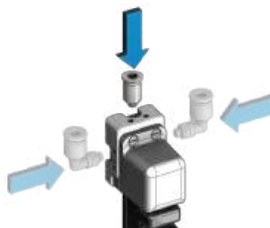
### Pose Adjustment



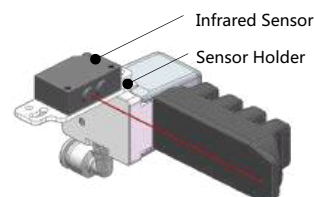
### Fixation



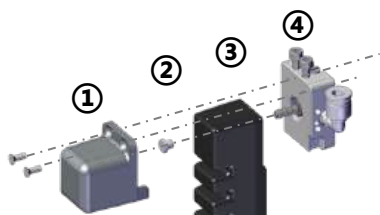
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -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

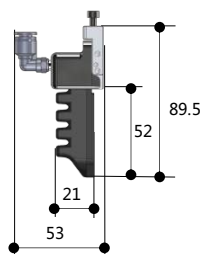
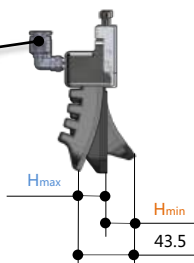


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



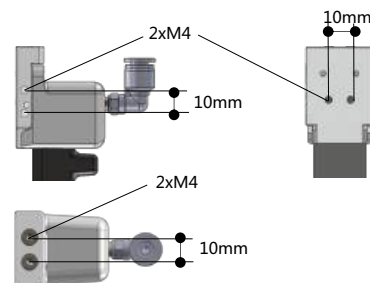
The measuring unit: [mm]



### Pose Adjustment



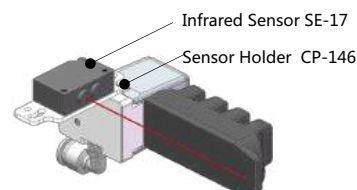
### Fixation



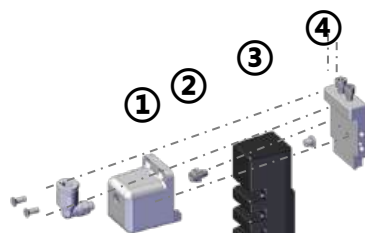
### Air Intake



### Sensor Installation



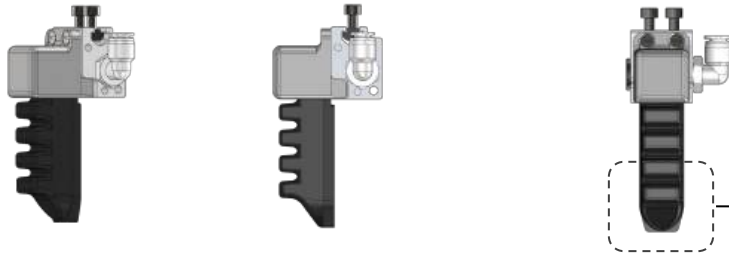
### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





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

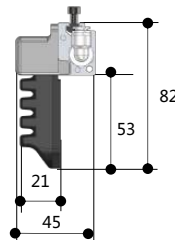
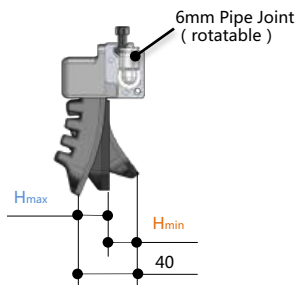
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B5V4/LF1[P]			FM-B5V4/LF1[PAS]			FM-B5V4/LF1[H]			FM-B5V4/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



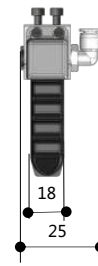
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



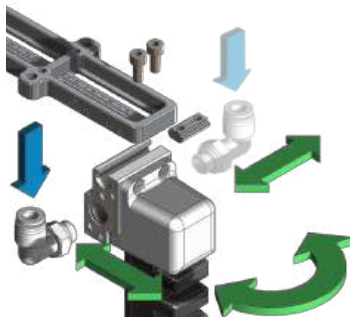
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



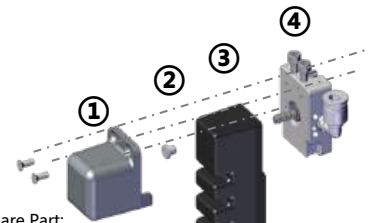
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



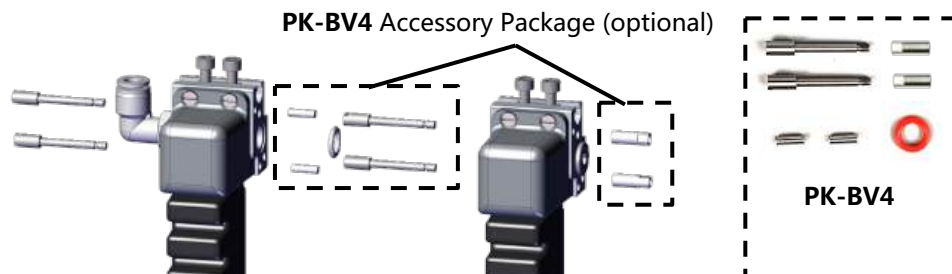
Spare Part:

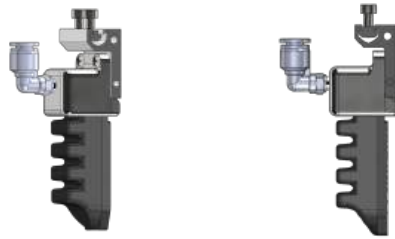
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.





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

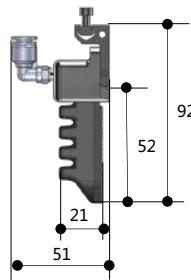
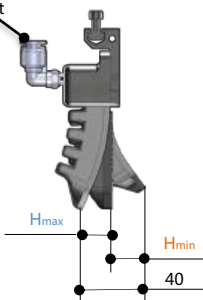


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

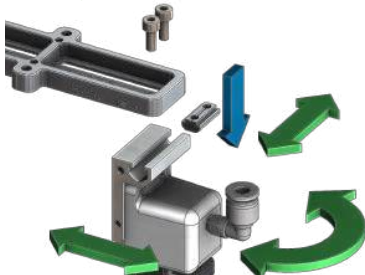
6mm Pipe Joint  
( rotatable )



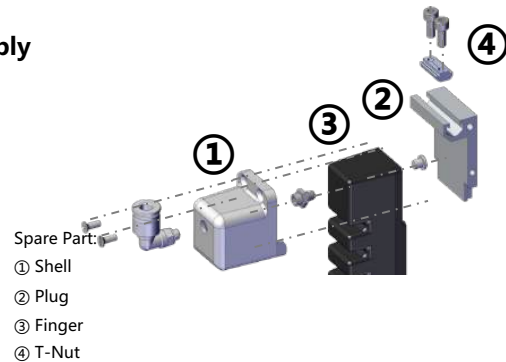
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

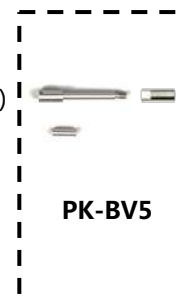
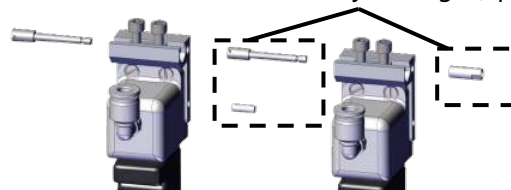


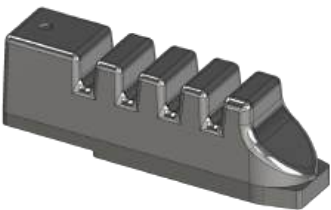
### Series combination:



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)



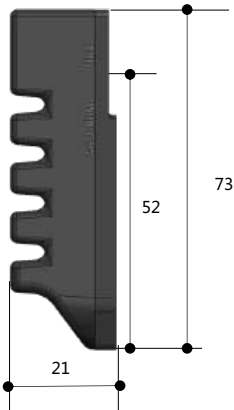
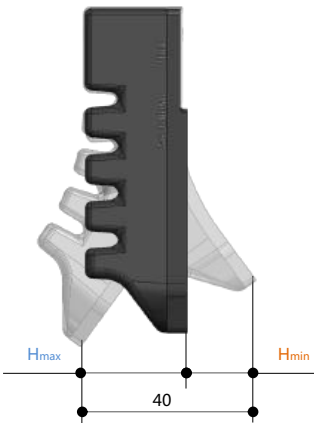


Finger Pattern		Features								
LF1	Special Form	Suitable for smooth dry workpieces and soft food.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-B5T/LF1[P]		F-B5T/LF1[PAS]			F-B5T/LF1[H]			F-B5T/LF1[HAS]		
Finger color: Black					Finger color: Grey					
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

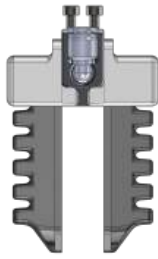


FM







## 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		

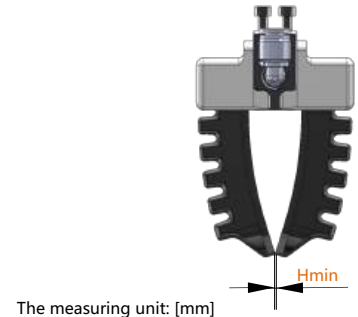
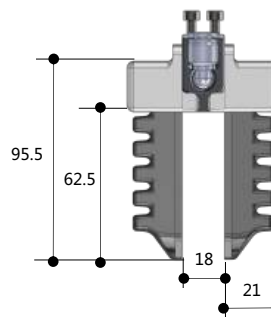
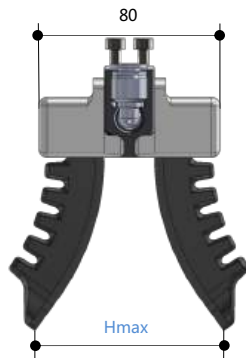
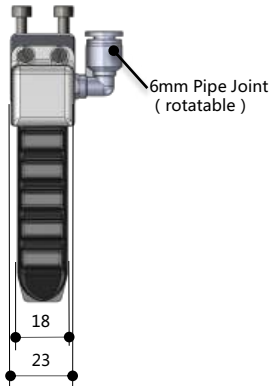


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



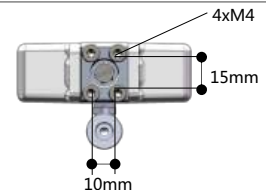
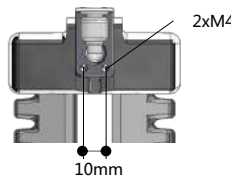
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

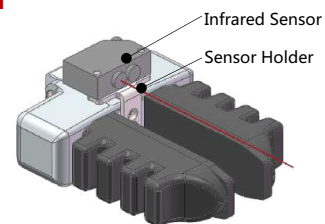
### Fixation



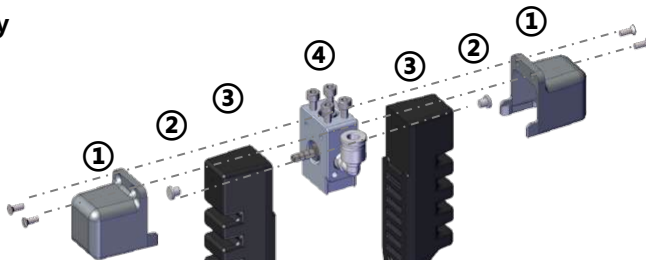
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## 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.
	

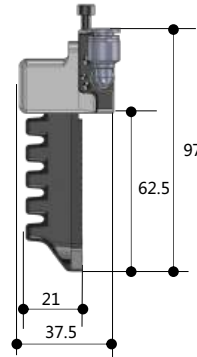
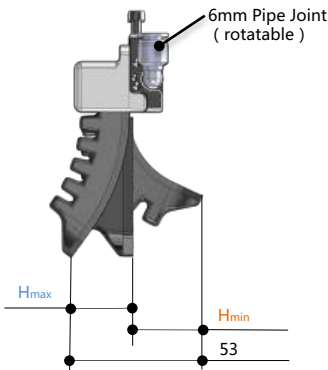
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B6V2/LS1[P]			FM-B6V2/LS1[PAS]			FM-B6V2/LS1[H]			FM-B6V2/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



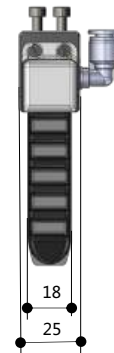
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



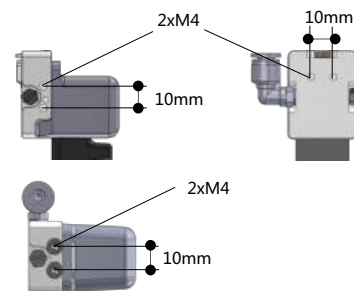
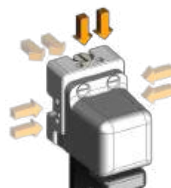
The measuring unit: [mm]



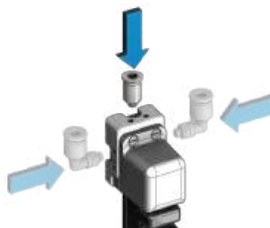
### Pose Adjustment



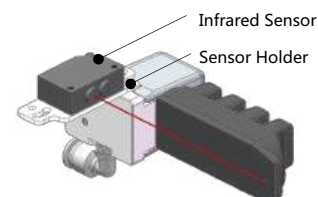
### Fixation



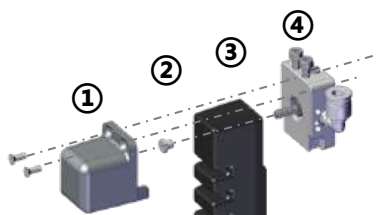
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -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		

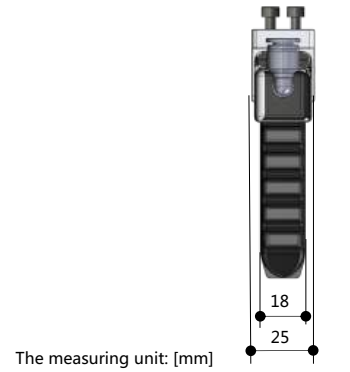
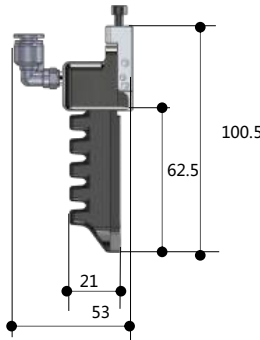
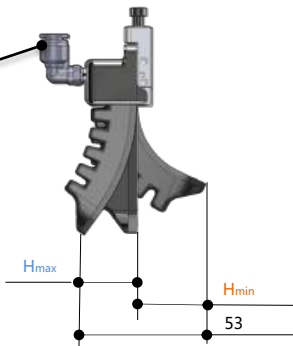


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

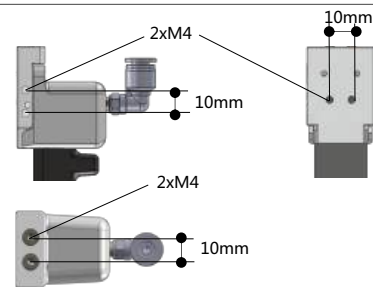


The measuring unit: [mm]

### Pose Adjustment



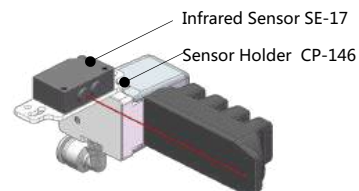
### Fixation



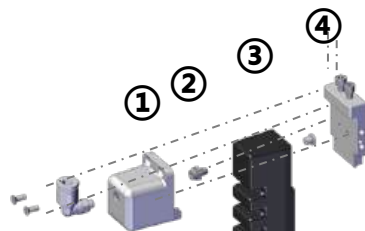
### Air Intake



### Sensor Installation



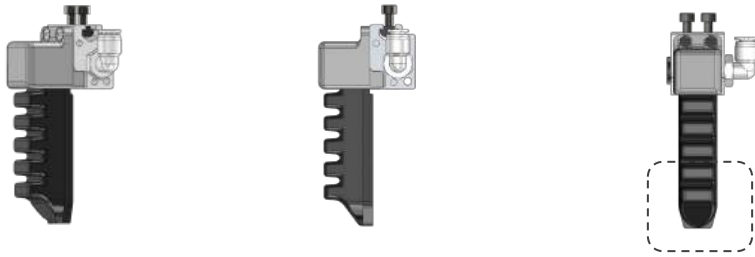
### Assembly







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.

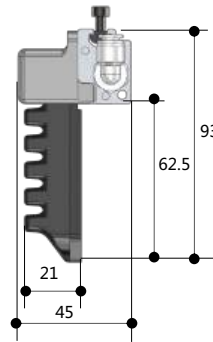
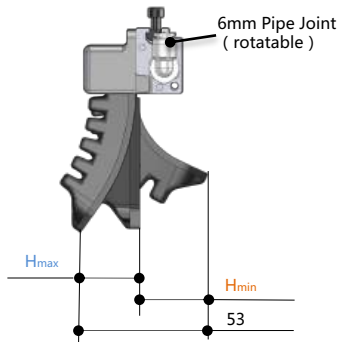
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B6V4/LS1[P]		FM-B6V4/LS1[PAS]			FM-B6V4/LS1[H]		FM-B6V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



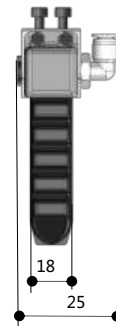
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



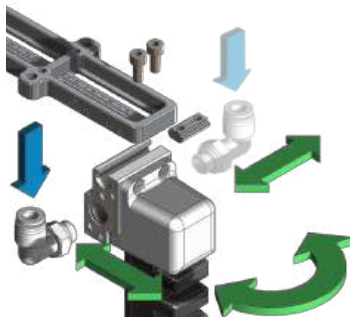
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



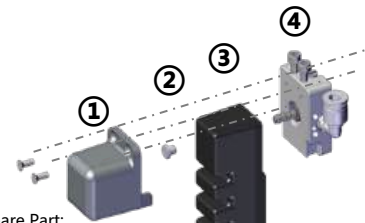
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

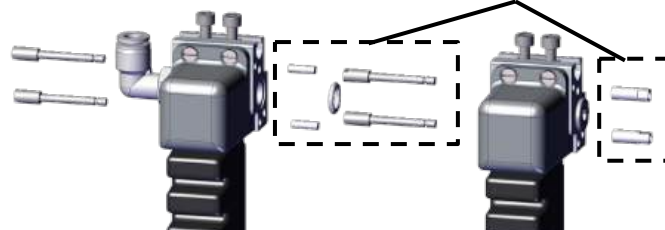
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

### PK-BV4 Accessory Package (optional)











## 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

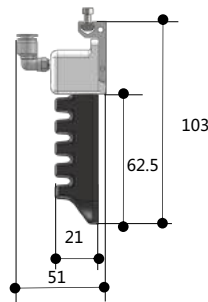
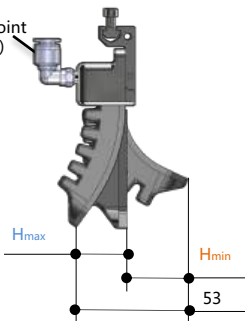


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

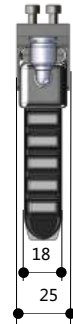


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

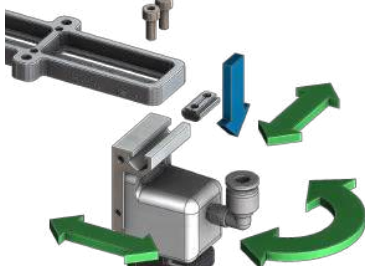
6mm Pipe Joint  
( rotatable )



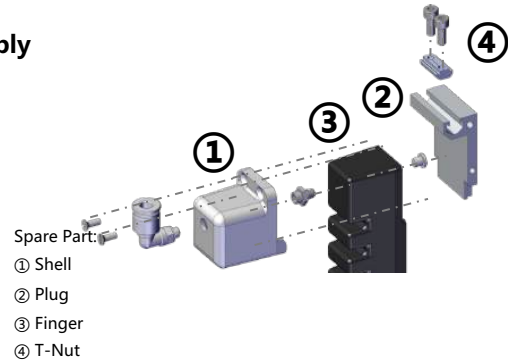
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

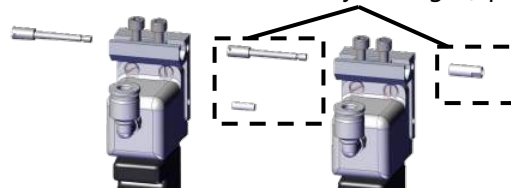


### Series combination:

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.

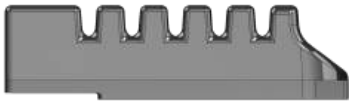
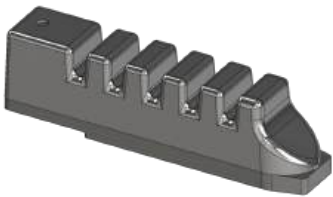
### PK-BV5 Accessory Package (optional)





F -B6T / LS1

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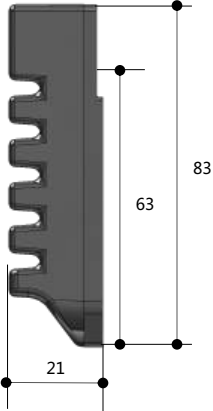
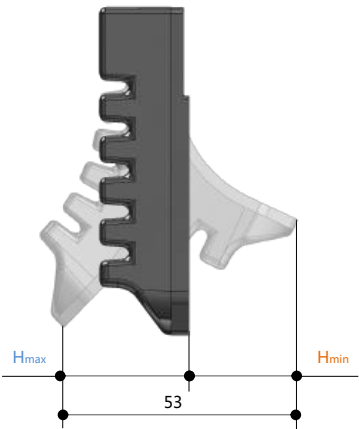


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-B6T/LS1[P]		F-B6T/LS1[PAS]			F-B6T/LS1[H]			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	📏 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.

Dimension Parameters

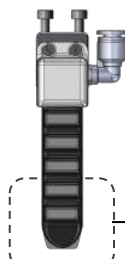


FM



## 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		

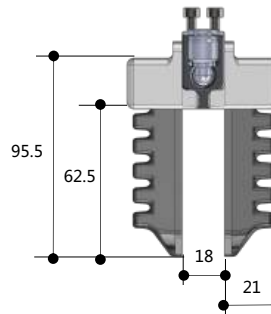
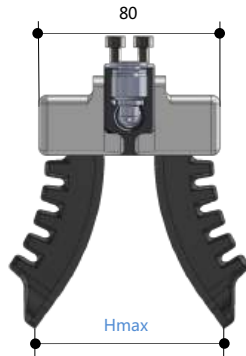
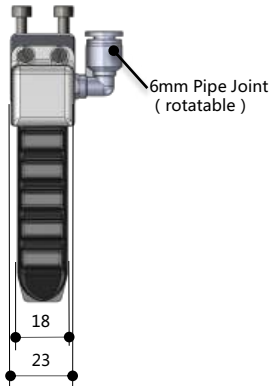


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



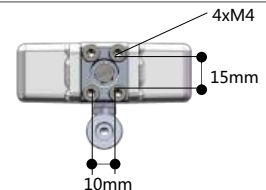
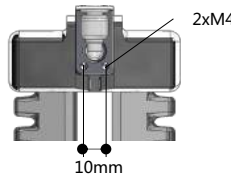
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

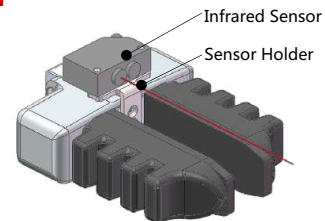
### Fixation



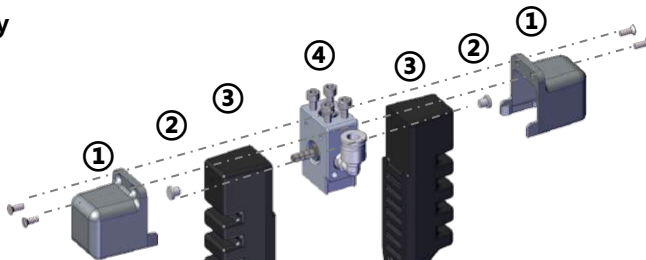
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B6V2 / LS8

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

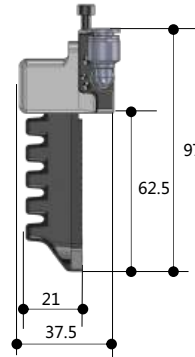
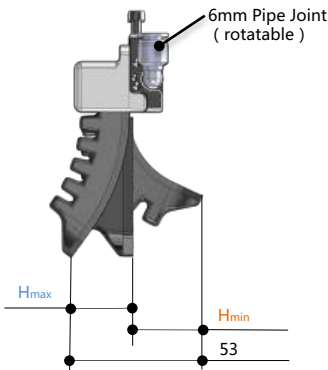
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B6V2/LS8[P]		FM-B6V2/LS8[PAS]			FM-B6V2/LS8[H]		FM-B6V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



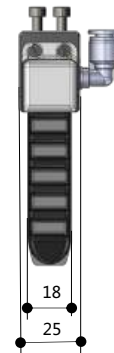
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



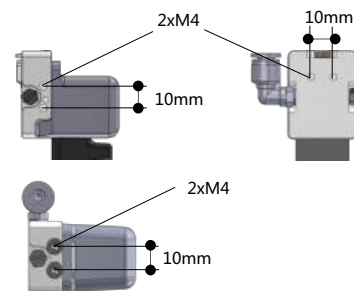
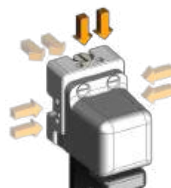
The measuring unit: [mm]



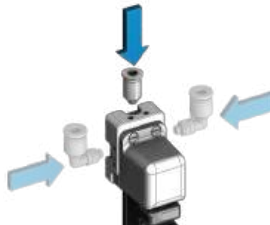
### Pose Adjustment



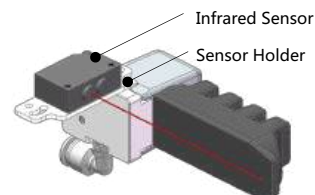
### Fixation



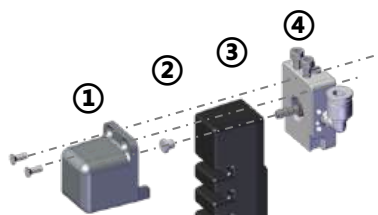
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## 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

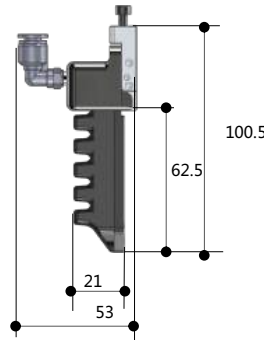
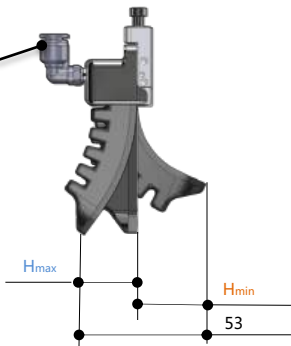


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

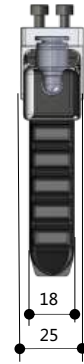


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )



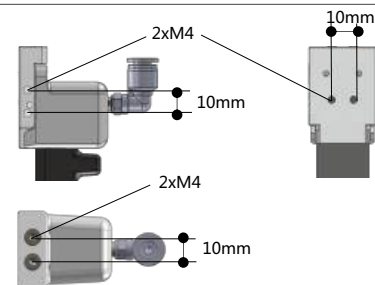
The measuring unit: [mm]



### Pose Adjustment



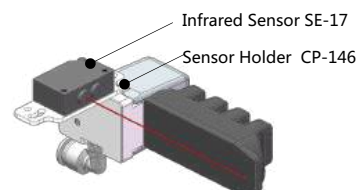
### Fixation



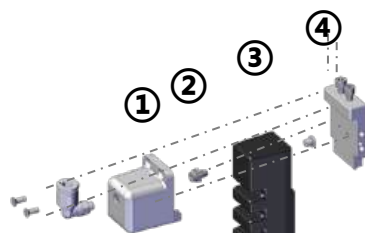
### Air Intake



### 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.
	

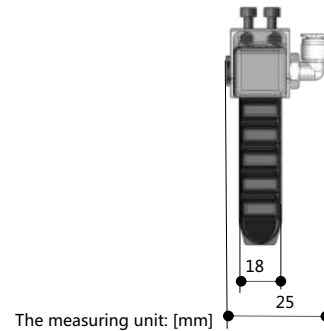
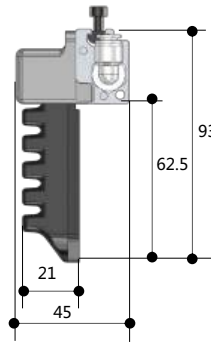
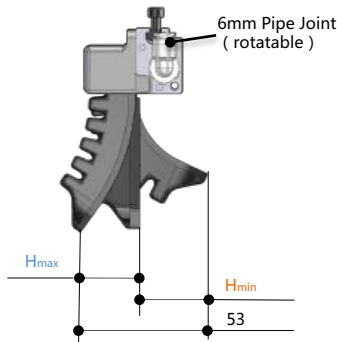
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B6V4/LS8[P]		FM-B6V4/LS8[PAS]			FM-B6V4/LS8[H]		FM-B6V4/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

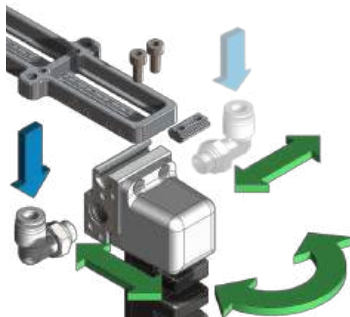


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

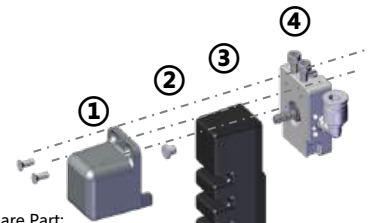


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

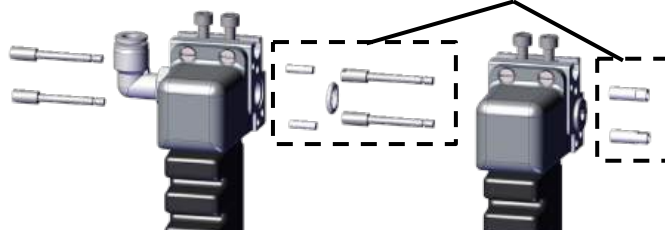
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:



- Build multiple finger modules in series to increase the grip 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. 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-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

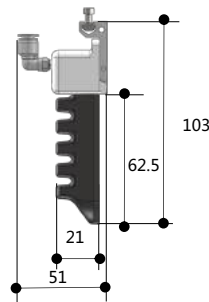
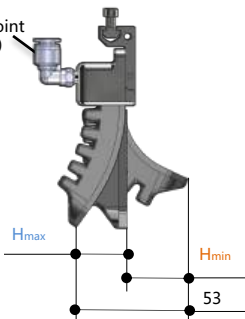


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

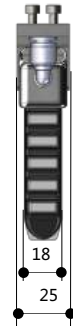


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

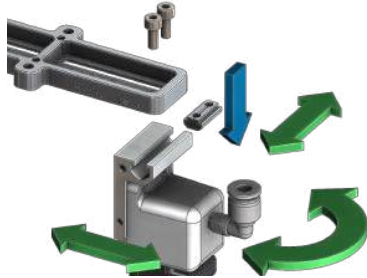
6mm Pipe Joint  
( rotatable )



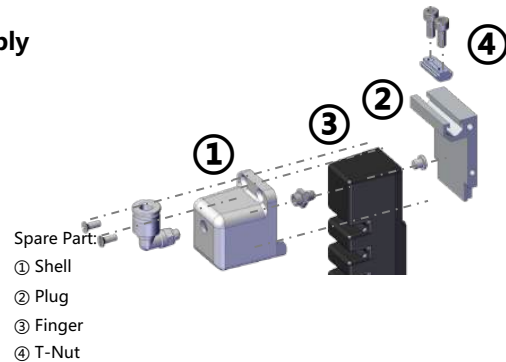
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



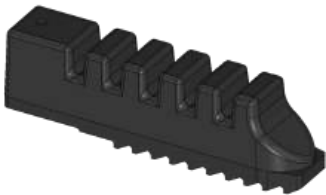
### Series combination:

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	

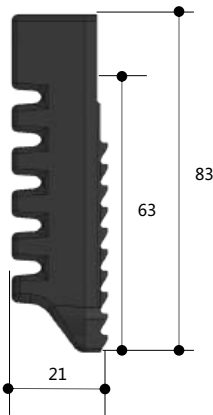
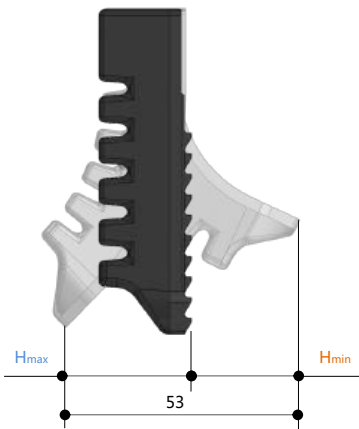


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

Dimension Parameters

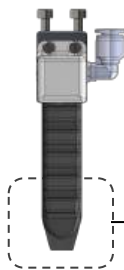
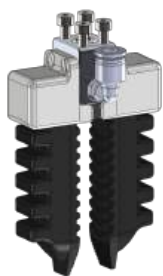


FM







## FM -B6V1 / 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-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

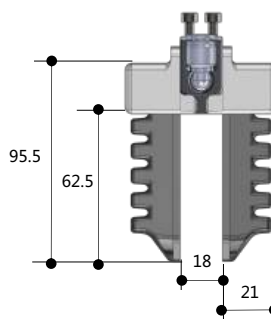
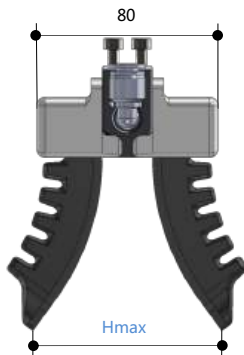
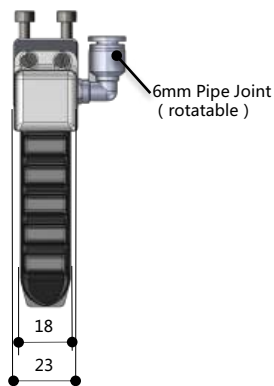


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

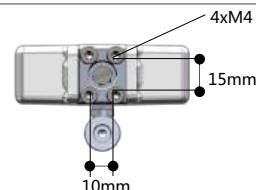
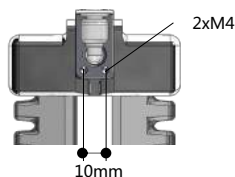
FM



The measuring unit: [mm]



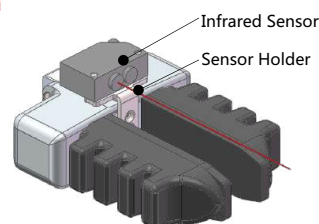
### Fixation



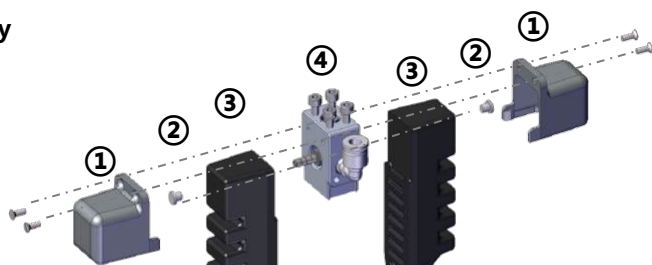
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B6V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

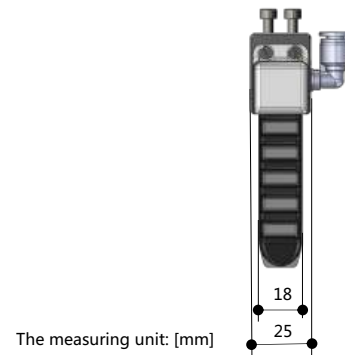
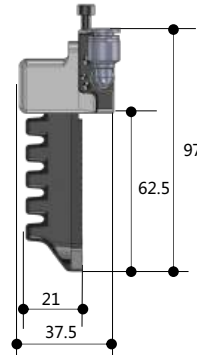
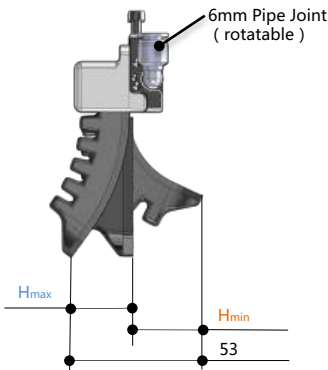
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B6V2/FS3[P]		FM-B6V2/FS3[PAS]			FM-B6V2/FS3[H]		FM-B6V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

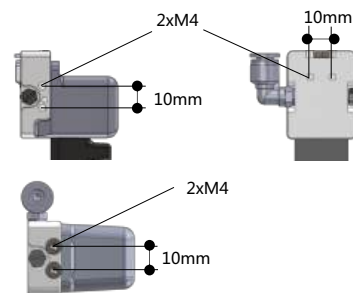
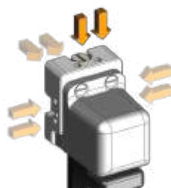


The measuring unit: [mm]

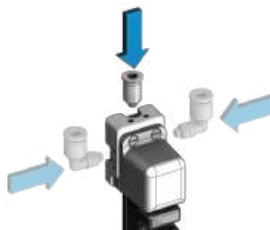
### Pose Adjustment



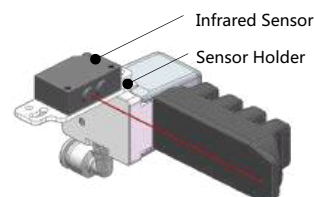
### Fixation



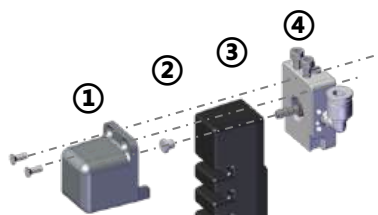
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B6V3 / 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-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

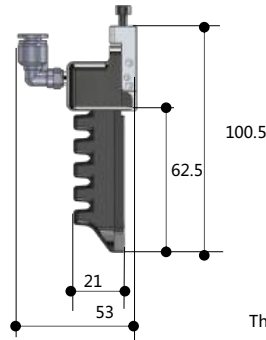
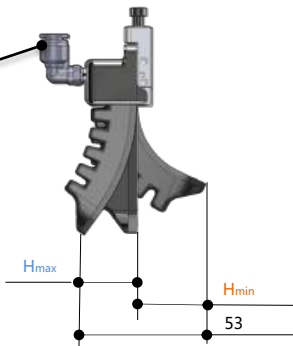


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

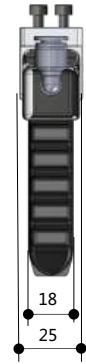


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )



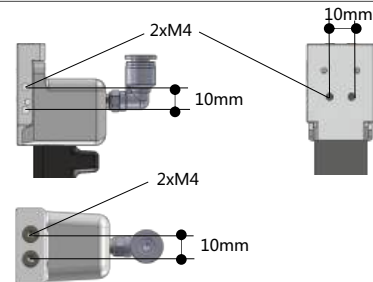
The measuring unit: [mm]



### Pose Adjustment



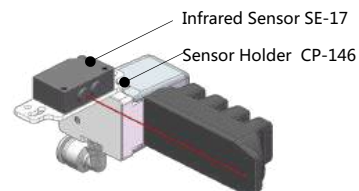
### Fixation



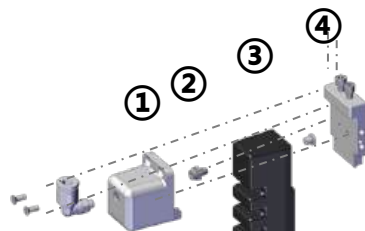
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -B6V4 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

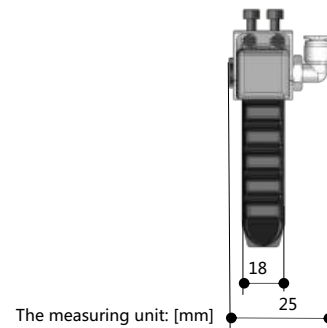
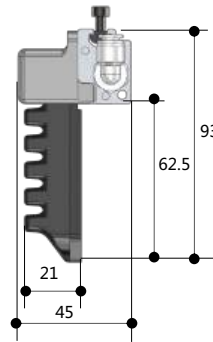
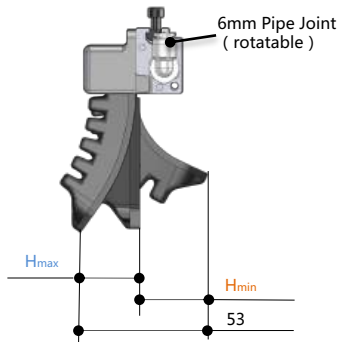
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B6V4/FS3[P]		FM-B6V4/FS3[PAS]			FM-B6V4/FS3[H]		FM-B6V4/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

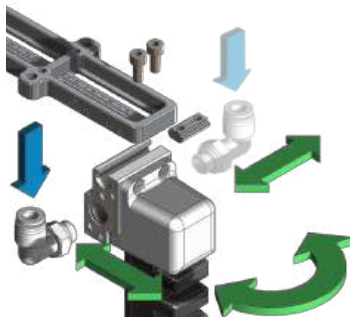


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

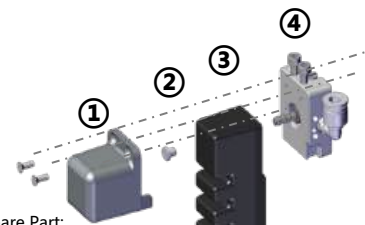


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



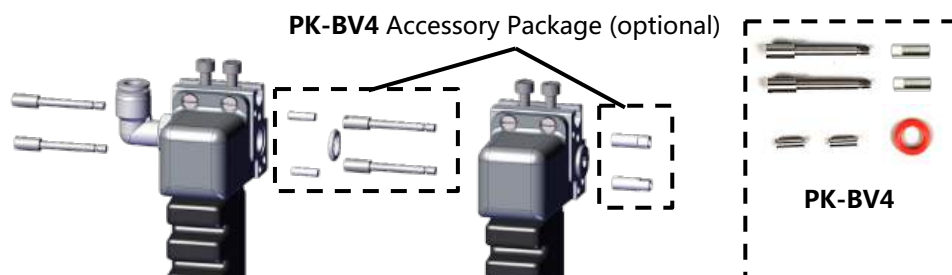
Spare Part:

- 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.

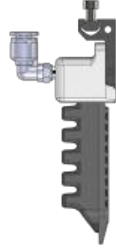
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## FM -B6V5 / 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-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		

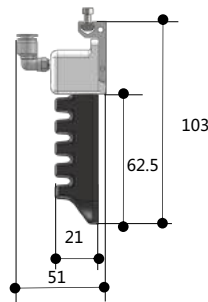
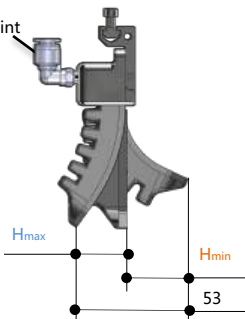


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

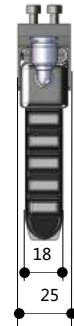


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

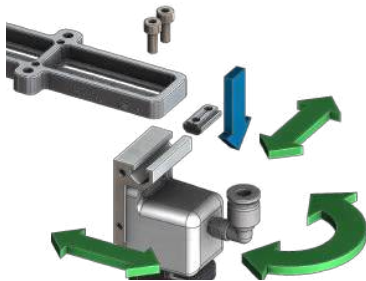
6mm Pipe Joint  
( rotatable )



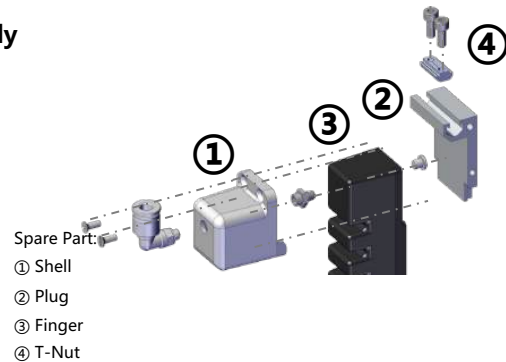
The measuring unit: [mm]



### Air Intake & Pose Adjustment



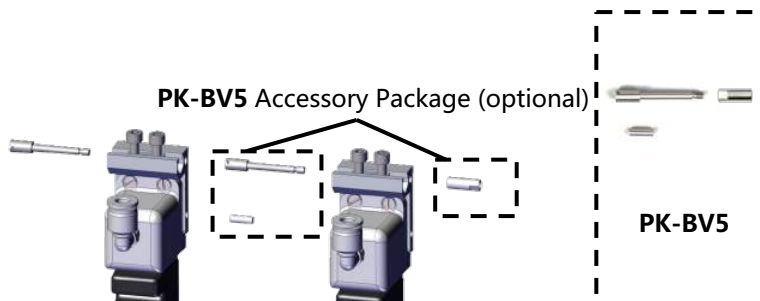
### Assembly

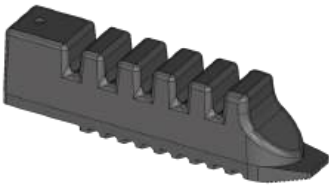


### Series combination:

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.



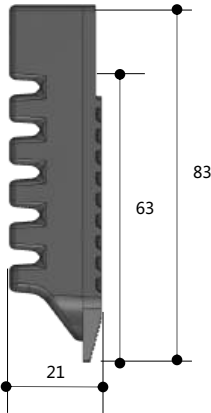
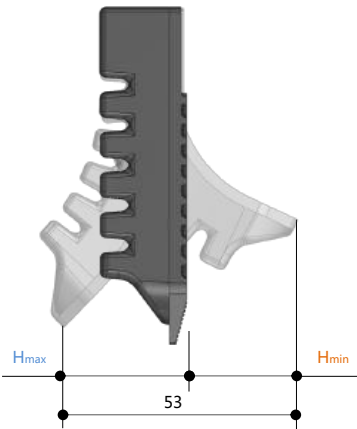


Finger Pattern			Features						
FS3	Special Form		Suitable for soft fabric products.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-B6T/FS3[P]			F-B6T/FS3[PAS]		F-B6T/FS3[H]			F-B6T/FS3[HAS]	
Finger color: Black					Finger color: Grey				
Positive Pressure 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.

Dimension Parameters

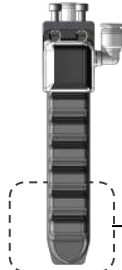
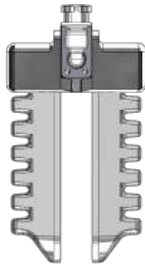


FM






## FM -B7V1 / 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-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		

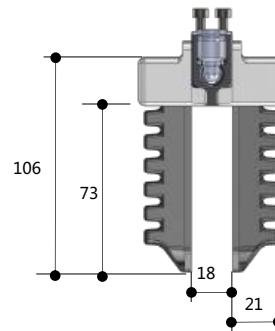
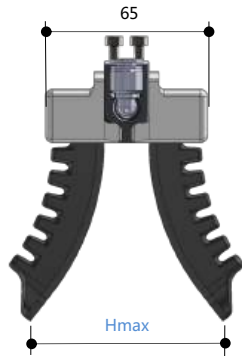
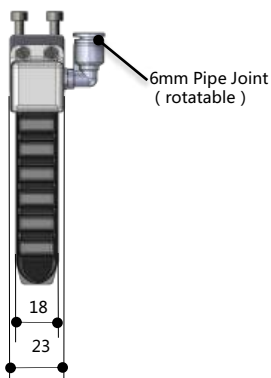


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



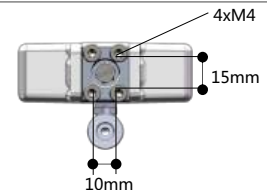
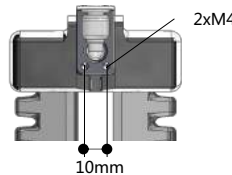
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

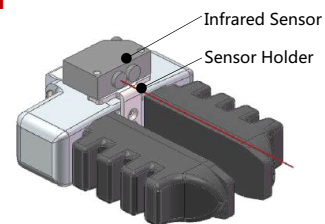
### Fixation



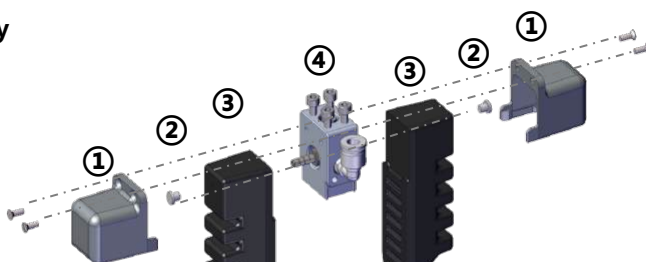
### Air Intake



### Sensor Installation



### Assembly



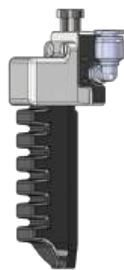
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B7V2 / LS1

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

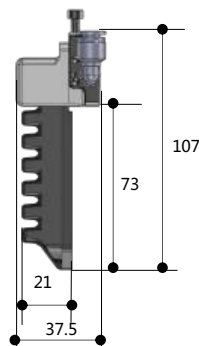
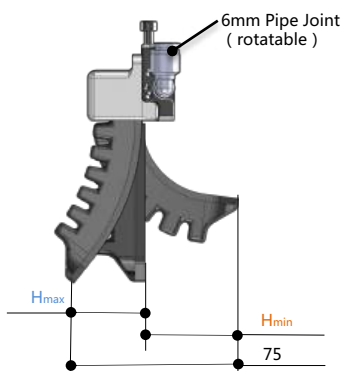
Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material			
FM-B7V2/LS1[P]		FM-B7V2/LS1[PAS]		FM-B7V2/LS1[H]		FM-B7V2/LS1[HAS]			
Finger color: Black				Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



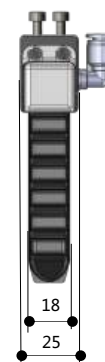
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



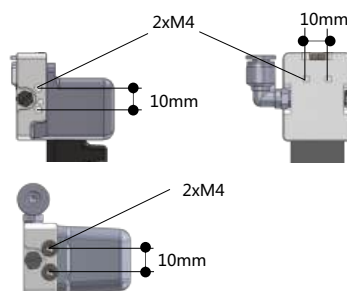
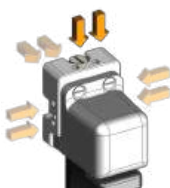
The measuring unit: [mm]



### Pose Adjustment



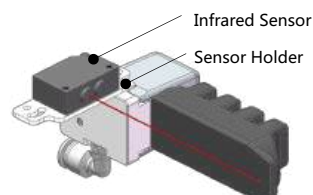
### Fixation



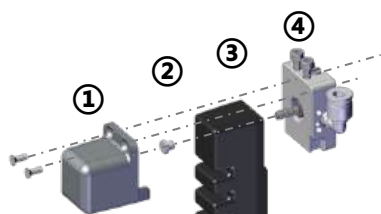
### Air Intake



### Sensor Installation



### Assembly



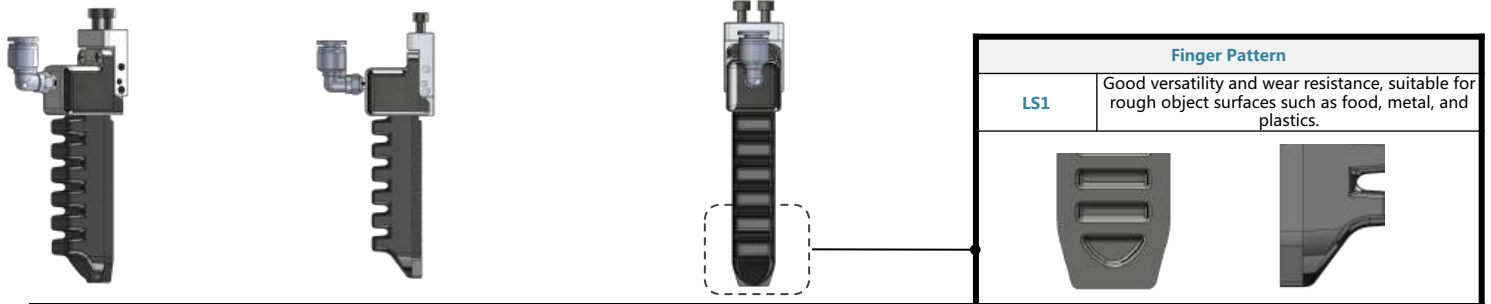
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B7V3 / 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-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

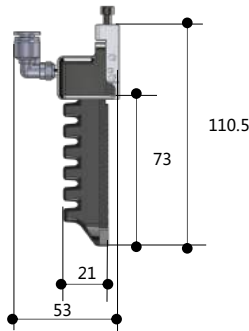
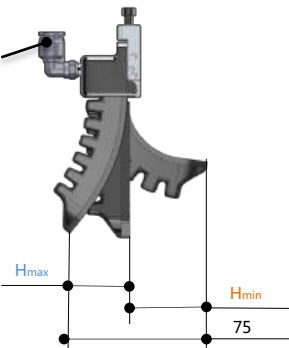


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

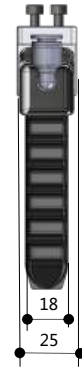


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )



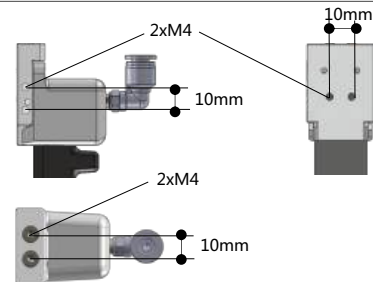
The measuring unit: [mm]



### Pose Adjustment



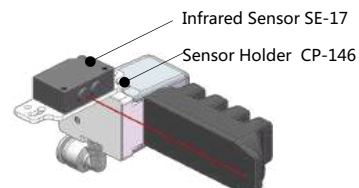
### Fixation



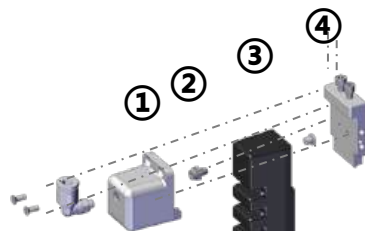
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

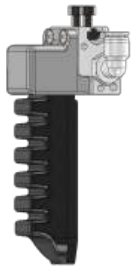
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## 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.

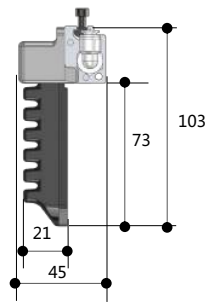
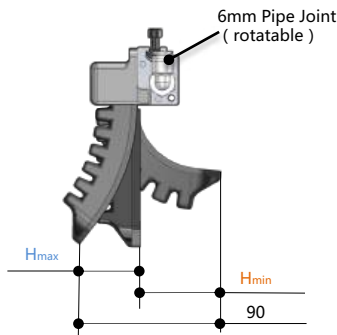
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B7V4/LS1[P]		FM-B7V4/LS1[PAS]			FM-B7V4/LS1[H]		FM-B7V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



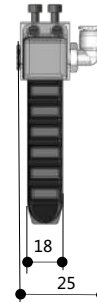
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



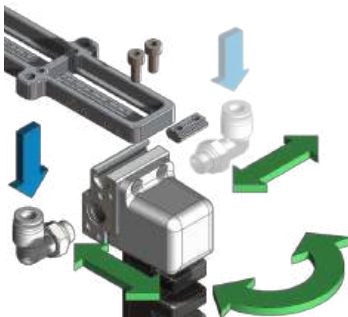
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



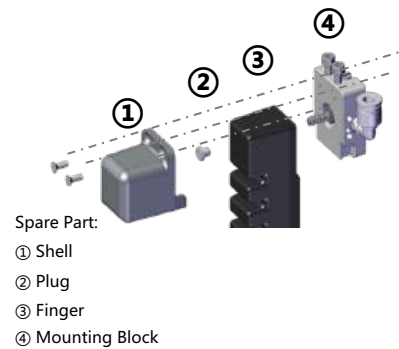
The measuring unit: [mm]



### Air Intake & Pose Adjustment



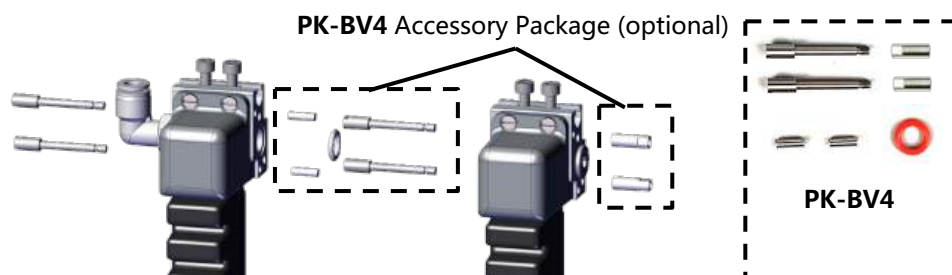
### Assembly



### 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.

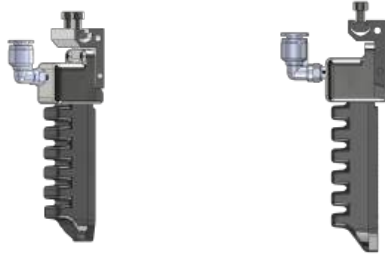
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.








## 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

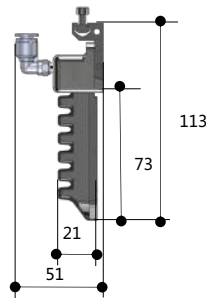
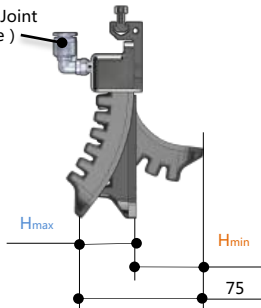


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

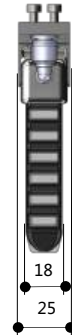


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

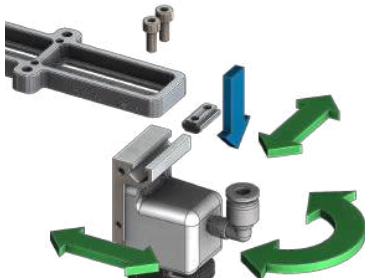
6mm Pipe Joint  
( rotatable )



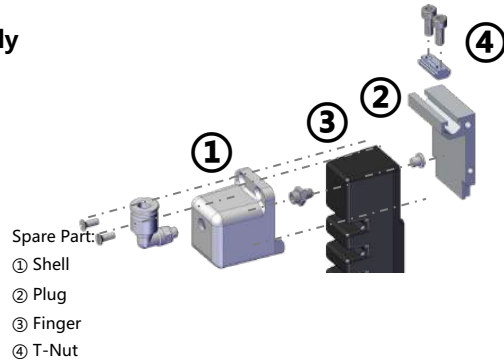
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

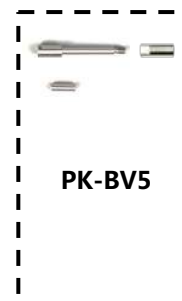
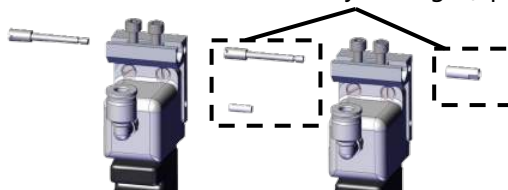


### Series combination:

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)







F -B7T / LS1

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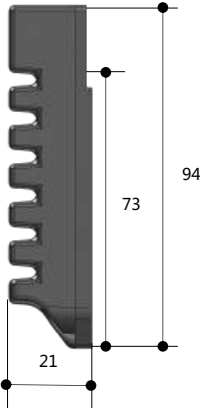
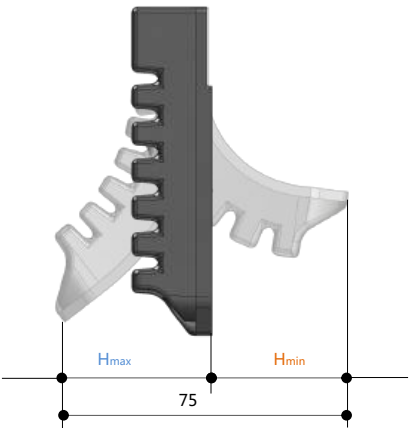


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-B7T/LS1[P]		F-B7T/LS1[PAS]			F-B7T/LS1[H]			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.

Dimension Parameters

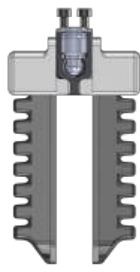
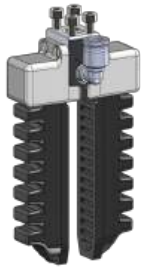




FM







## 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

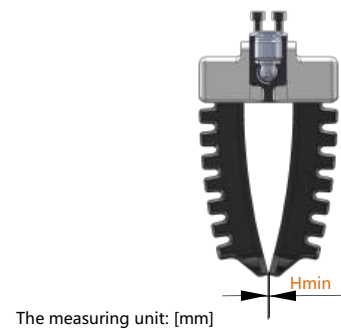
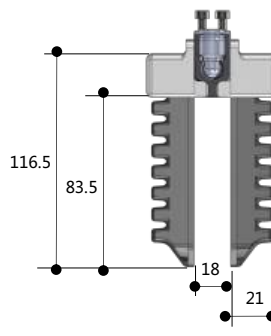
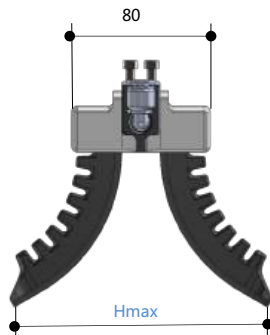
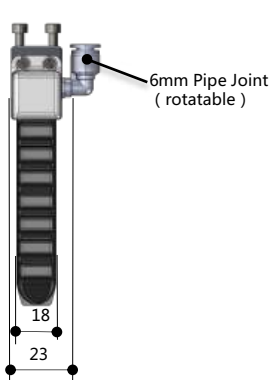


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



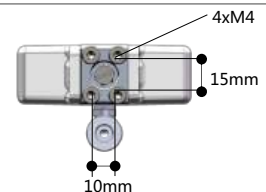
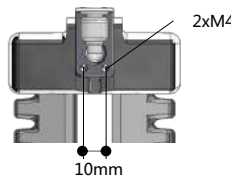
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

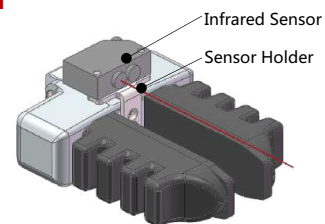
### Fixation



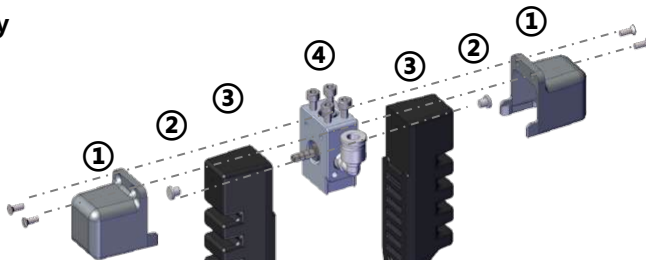
### Air Intake



### Sensor Installation



### Assembly



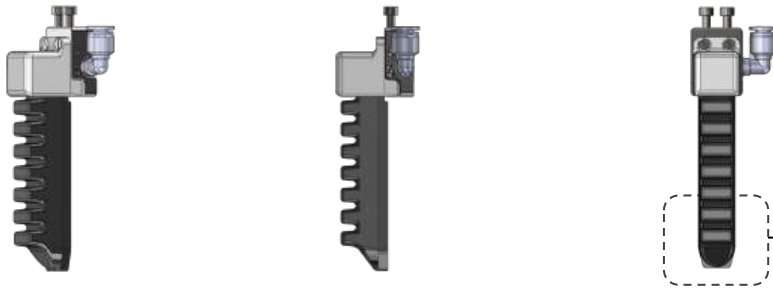
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -B8V2 / LS1

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

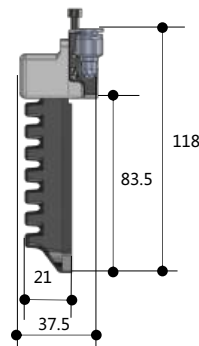
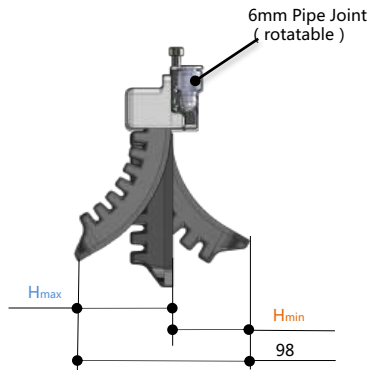
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B8V2/LS1[P]			FM-B8V2/LS1[PAS]			FM-B8V2/LS1[H]			FM-B8V2/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



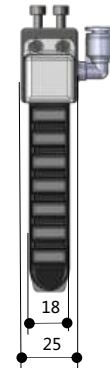
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



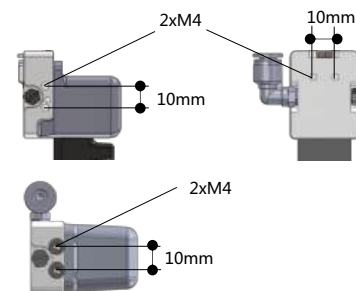
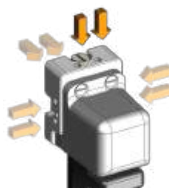
The measuring unit: [mm]



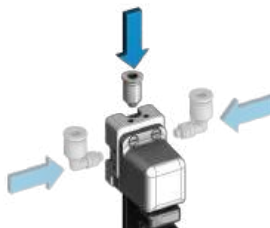
### Pose Adjustment



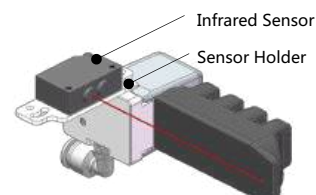
### Fixation



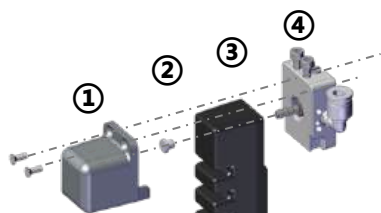
### Air Intake



### Sensor Installation



### Assembly



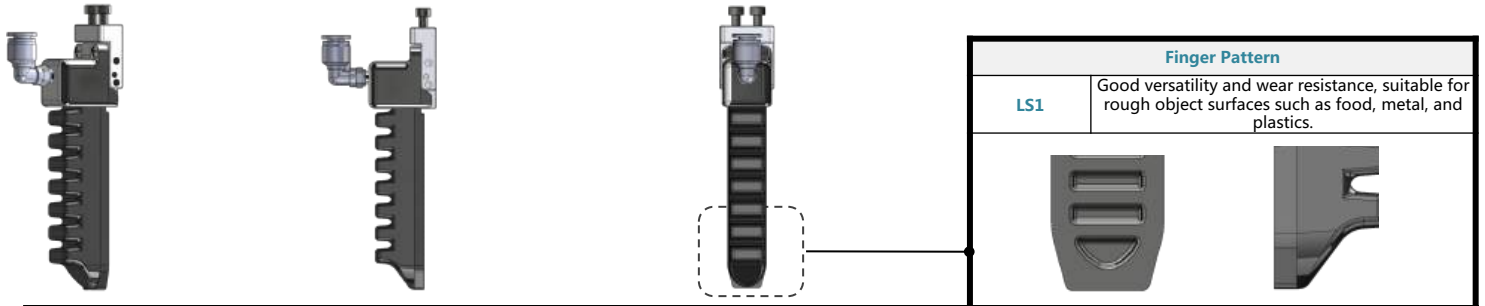
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -B8V3 / LS1

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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

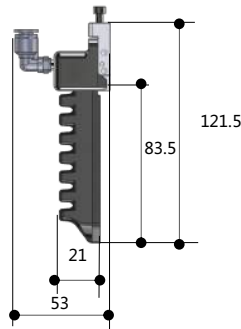
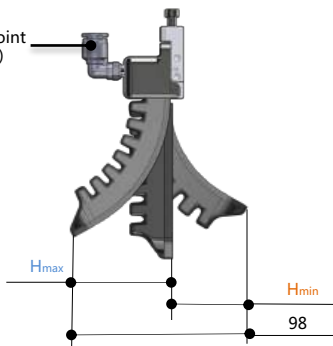


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



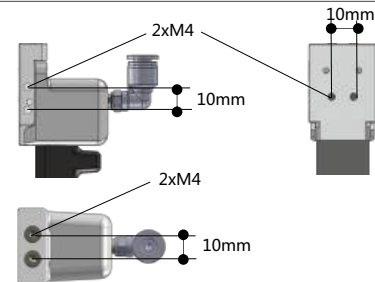
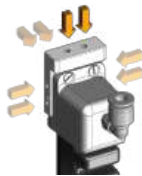
The measuring unit: [mm]



### Pose Adjustment



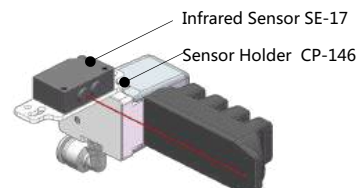
### Fixation



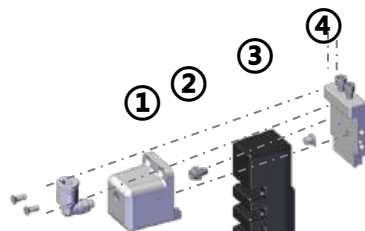
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

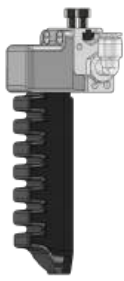
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## 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.

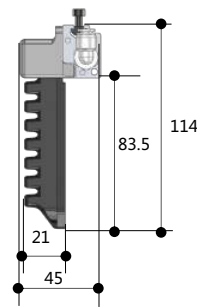
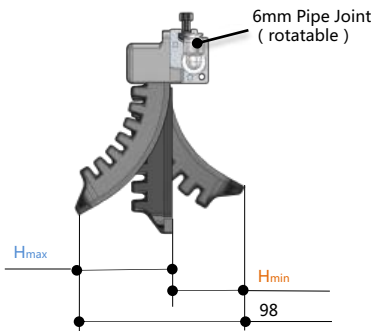
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B8V4/LS1[P]		FM-B8V4/LS1[PAS]			FM-B8V4/LS1[H]		FM-B8V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



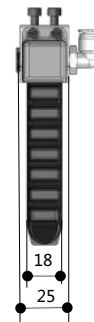
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



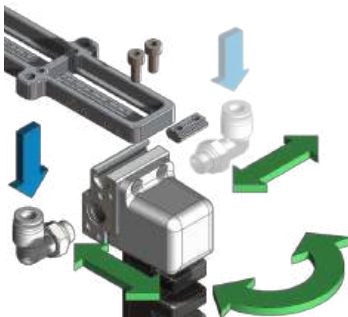
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



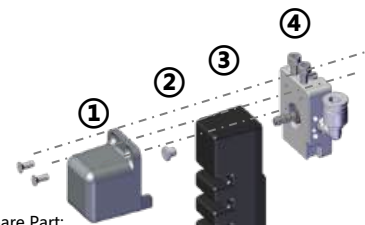
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

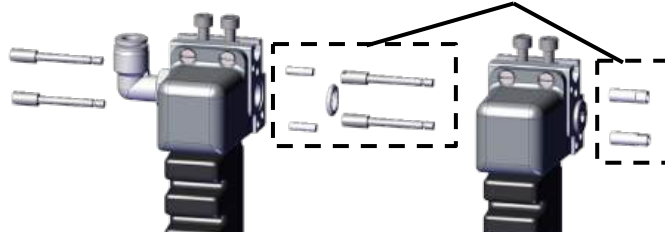
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

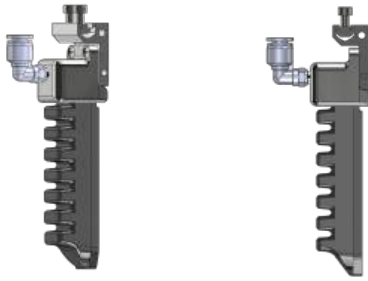
### PK-BV4 Accessory Package (optional)





## 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		

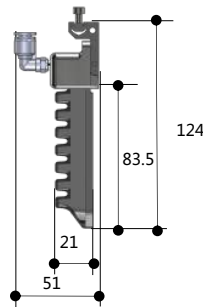
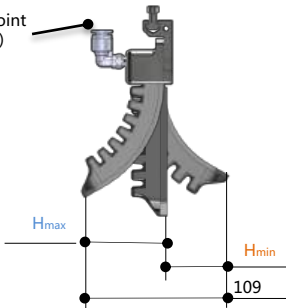


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

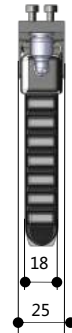


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

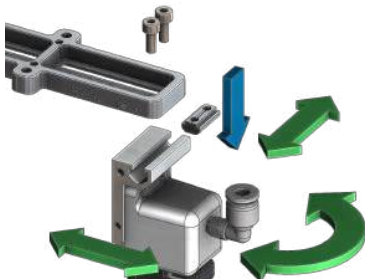
6mm Pipe Joint  
( rotatable )



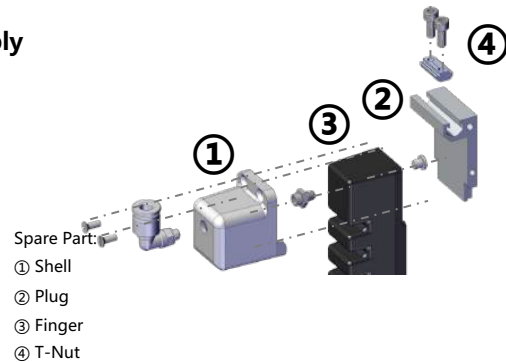
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

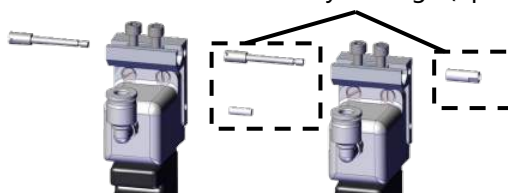


### Series combination:

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.

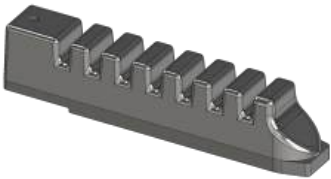
### PK-BV5 Accessory Package (optional)





F -B8T / LS1

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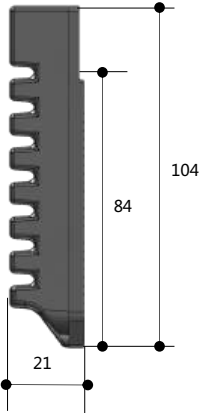
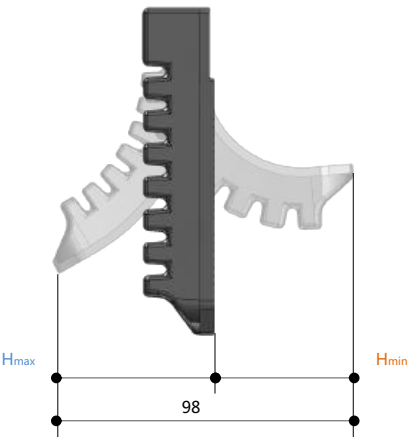


Finger Pattern			Features						
LS1	Standard form		Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.						
Normal Material F-B8T/LS1[P]			Dust-free Normal Material F-B8T/LS1[PAS]		Strong Material F-B8T/LS1[H]			Dust-free Strong Material F-B8T/LS1[HAS]	
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	📏 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.

Dimension Parameters

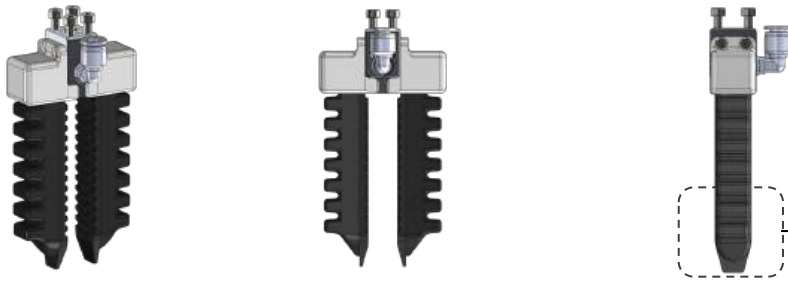


FM



## 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		

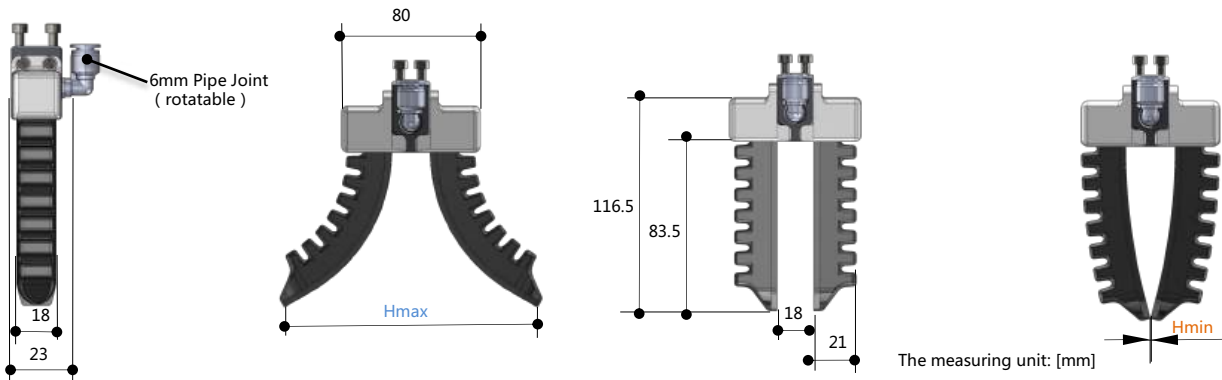


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



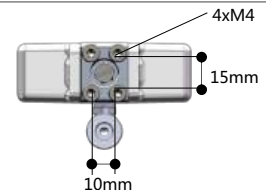
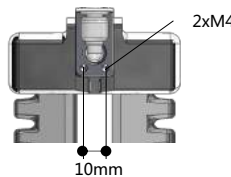
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

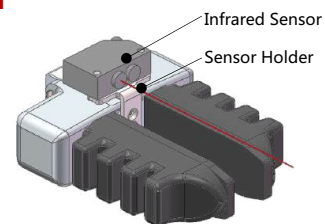
### Fixation



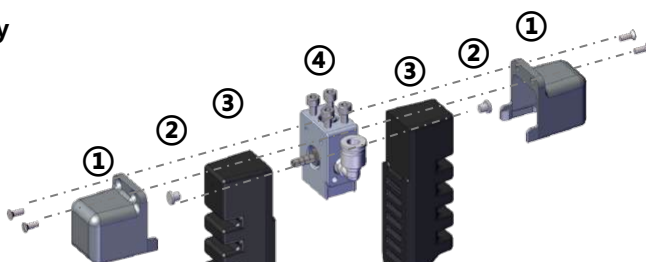
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block




## FM -B8V2 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

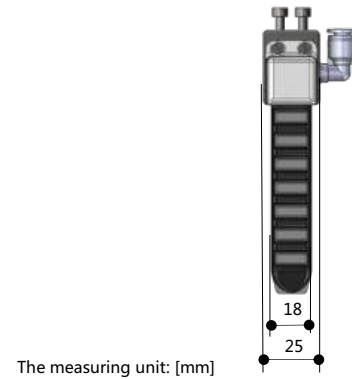
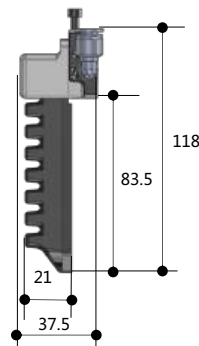
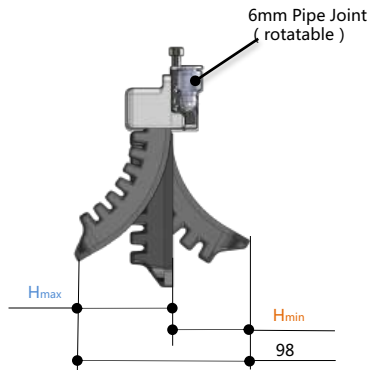
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B8V2/FS3[P]		FM-B8V2/FS3[PAS]			FM-B8V2/FS3[H]		FM-B8V2/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

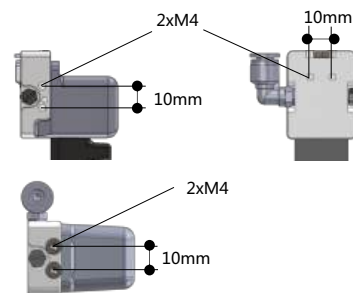
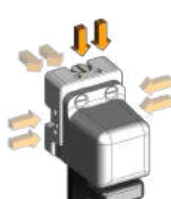


The measuring unit: [mm]

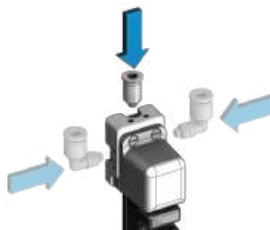
### Pose Adjustment



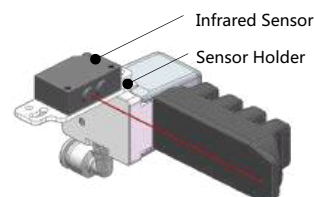
### Fixation



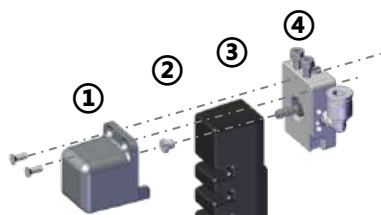
### Air Intake



### Sensor Installation



### Assembly



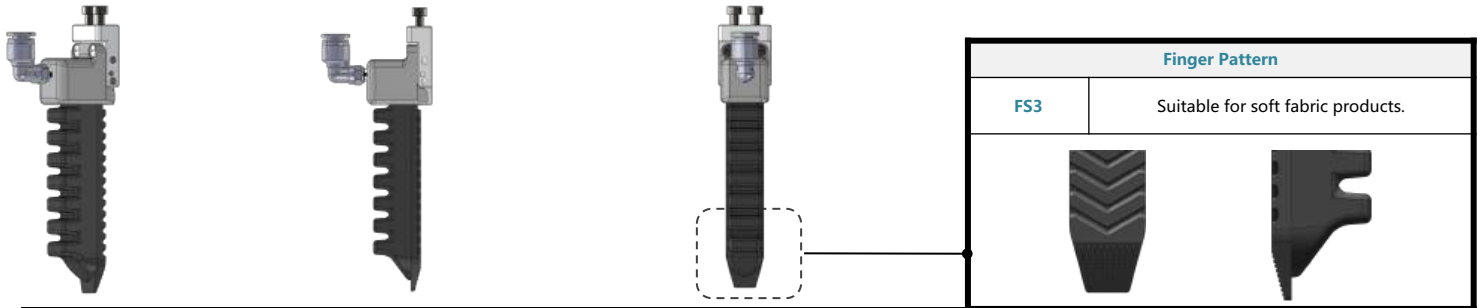
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -B8V3 / FS3

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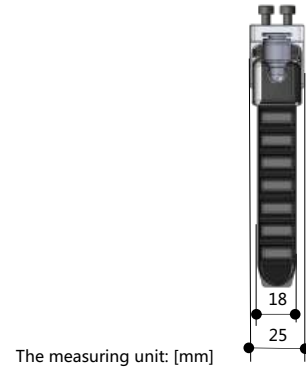
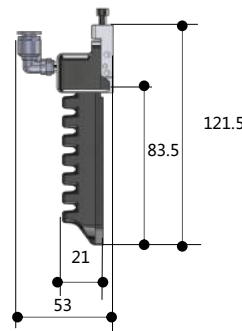
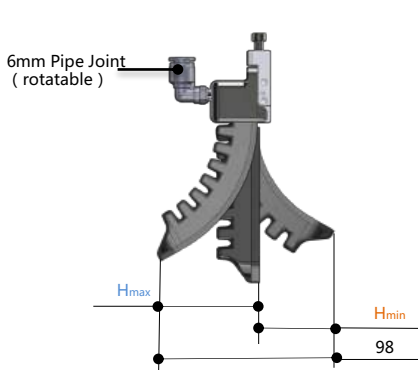
Finger Pattern	
FS3	Suitable for soft fabric products.

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.

FM

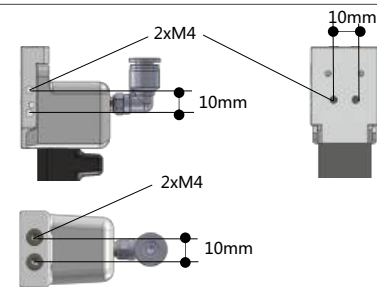


The measuring unit: [mm]

### Pose Adjustment



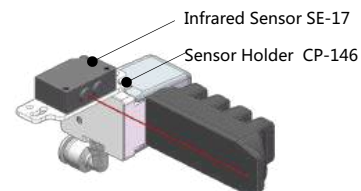
### Fixation



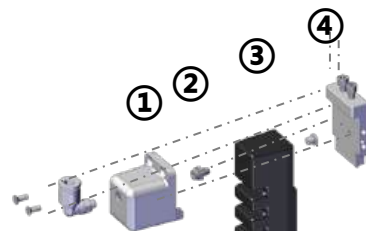
### Air Intake



### Sensor Installation



### Assembly



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





## FM -B8V4 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

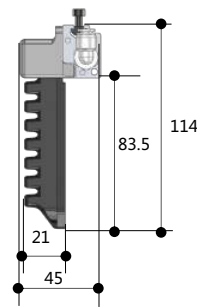
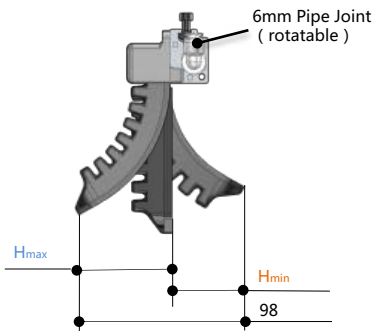
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B8V4/FS3[P]		FM-B8V4/FS3[PAS]			FM-B8V4/FS3[H]		FM-B8V4/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



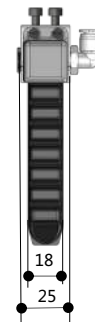
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



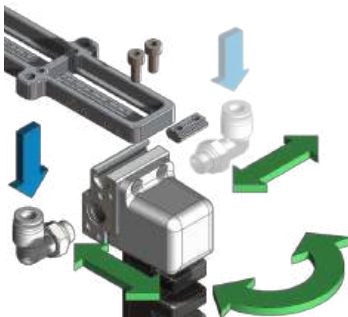
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



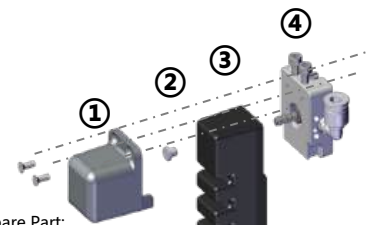
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

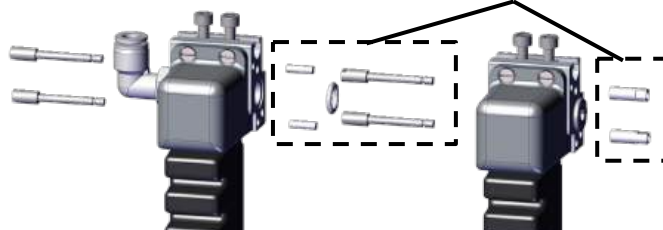
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

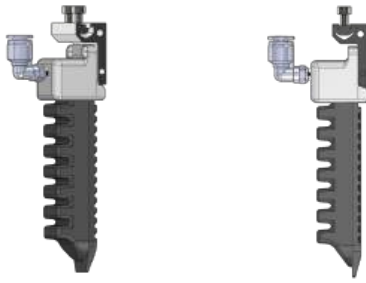
### Series combination:

- Build multiple finger modules in series to increase the grip 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. 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-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

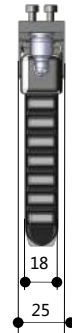
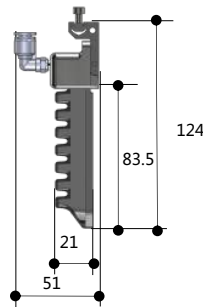
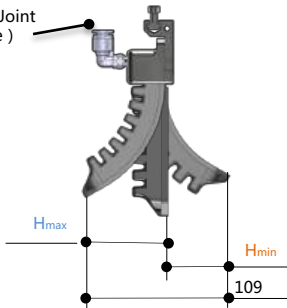


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



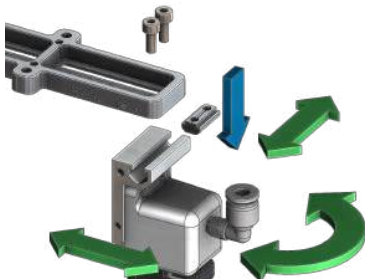
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

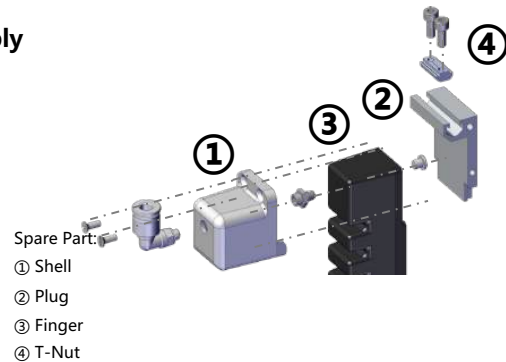


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



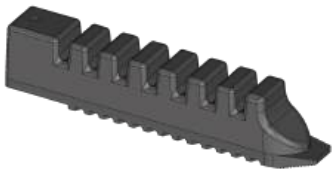
### Series combination:

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)



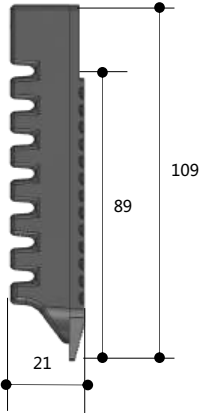
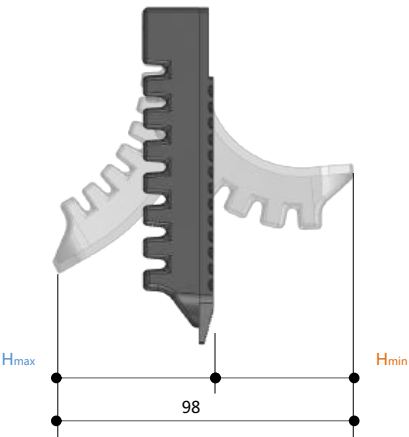


Finger Pattern			Features						
FS3	Special Form		Suitable for soft fabric products.						
Normal Material			Dust-free Normal Material		Strong Material			Dust-free Strong Material	
F-B8T/FS3[P]			F-B8T/FS3[PAS]		F-B8T/FS3[H]			F-B8T/FS3[HAS]	
Finger color: Black					Finger color: Grey				
Positive Pressure 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.

Dimension Parameters

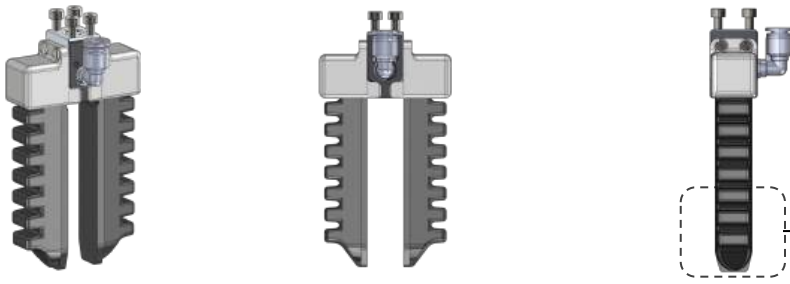


FM







## FM -B8V1 / LF1

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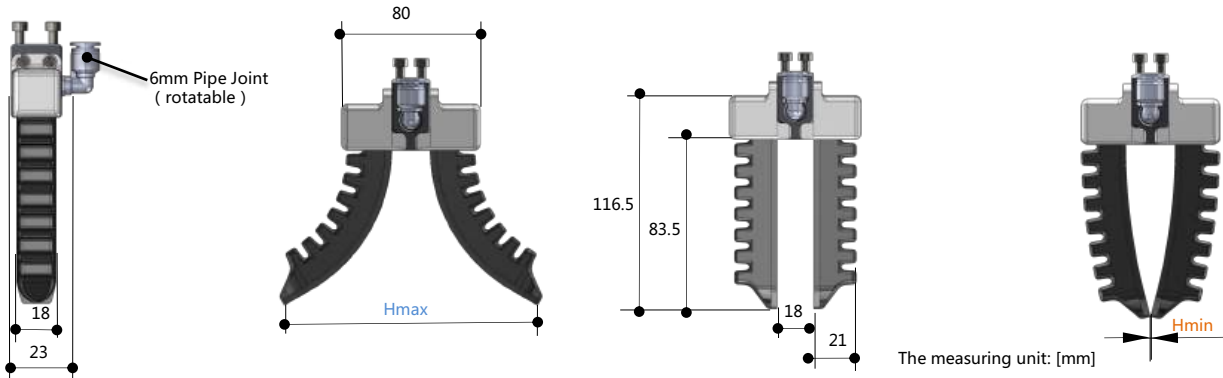
Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

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

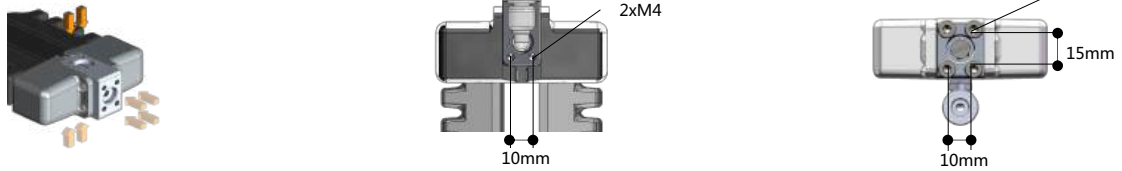
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

📏 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.

FM



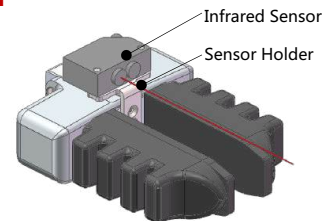
### Fixation



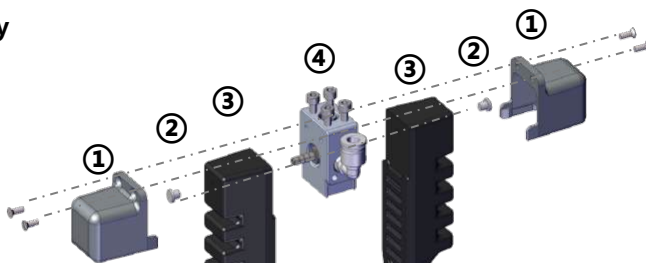
### Air Intake



### Sensor Installation



### Assembly



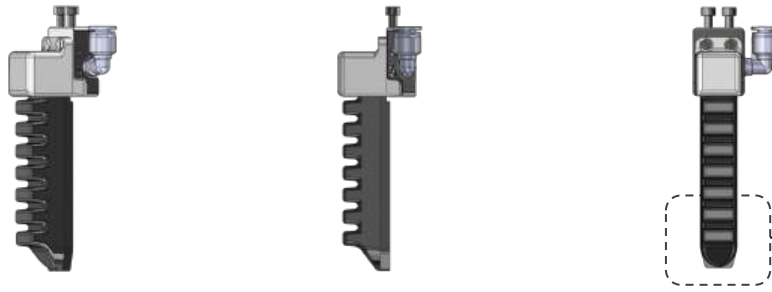
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -B8V2 / LF1

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

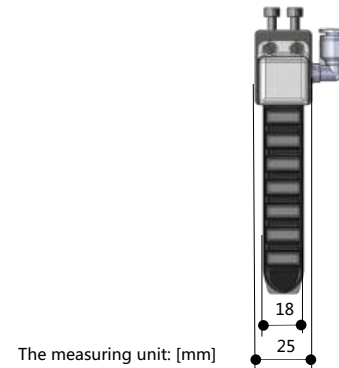
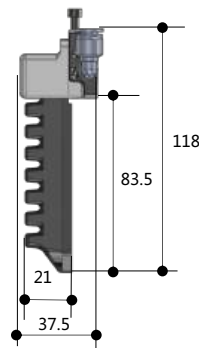
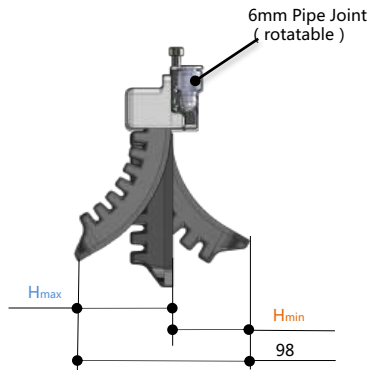
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-B8V2/LF1[P]		FM-B8V2/LF1[PAS]			FM-B8V2/LF1[H]		FM-B8V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

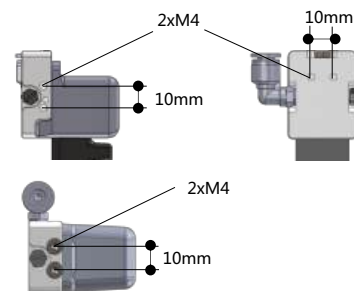
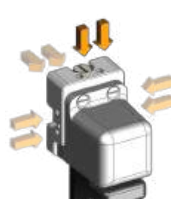


The measuring unit: [mm]

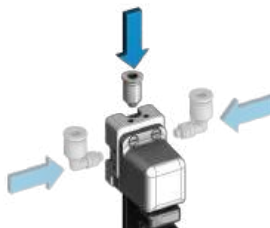
### Pose Adjustment



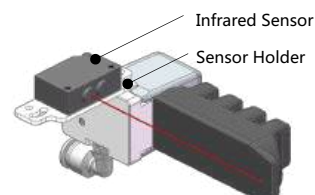
### Fixation



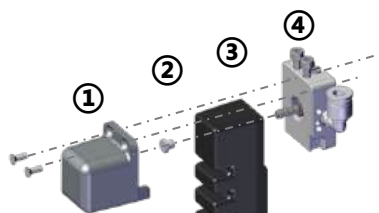
### Air Intake



### Sensor Installation



### Assembly



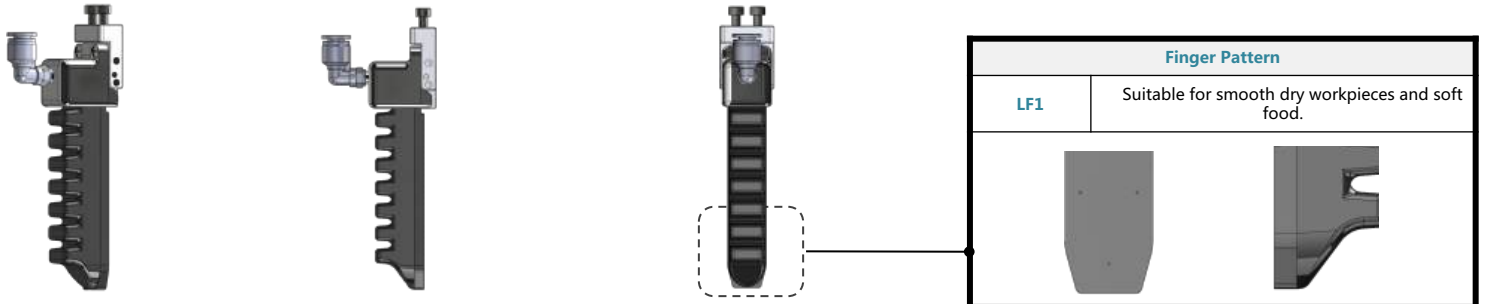
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -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

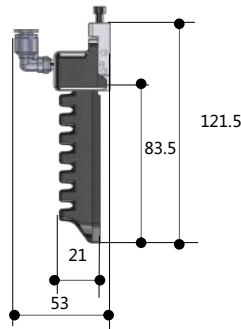
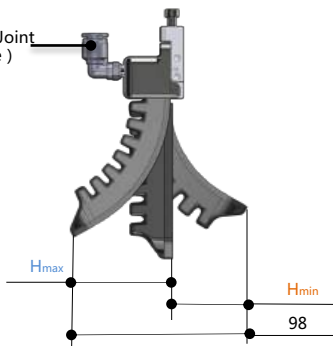


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



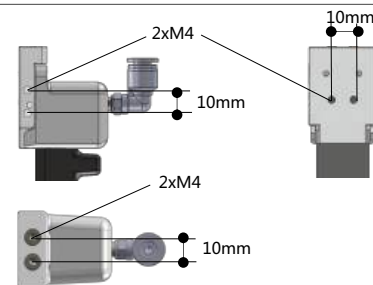
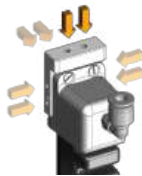
The measuring unit: [mm]



### Pose Adjustment



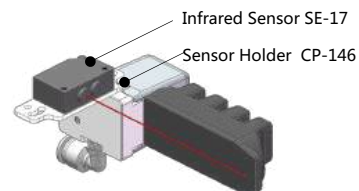
### Fixation



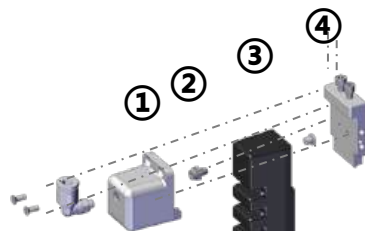
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

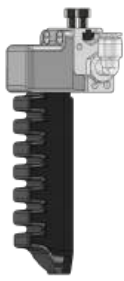
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -B8V4 / LF1

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

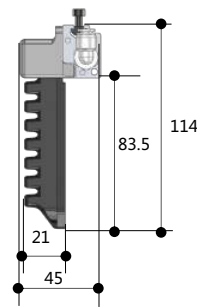
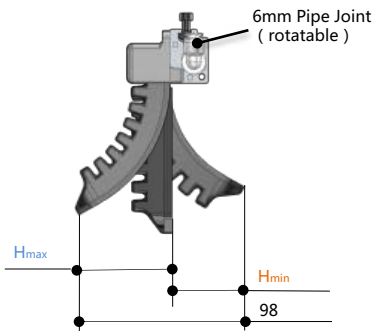
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-B8V4/LF1[P]			FM-B8V4/LF1[PAS]			FM-B8V4/LF1[H]			FM-B8V4/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



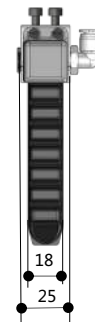
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



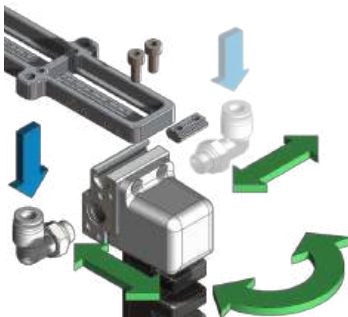
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



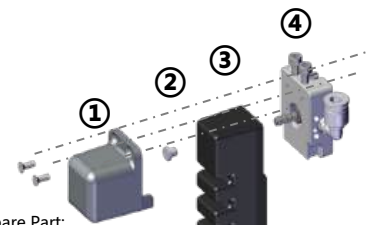
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



Spare Part:

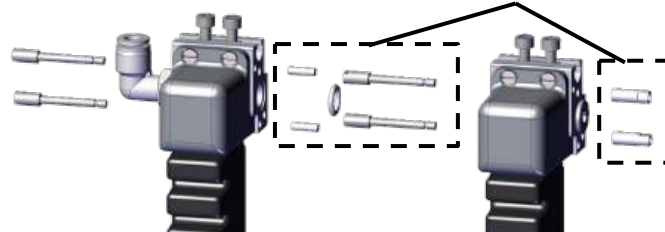
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

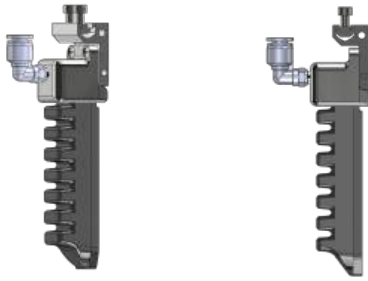
### PK-BV4 Accessory Package (optional)







## 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		

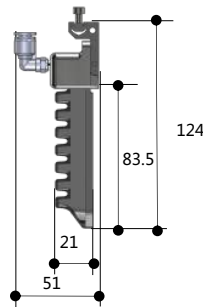
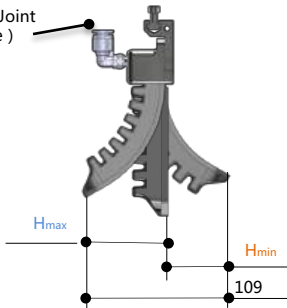


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

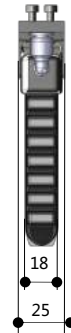


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

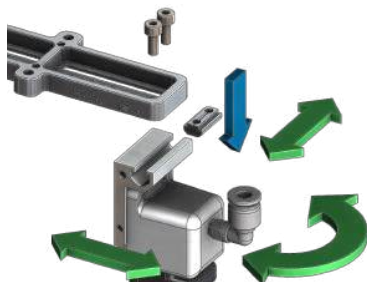
6mm Pipe Joint  
( rotatable )



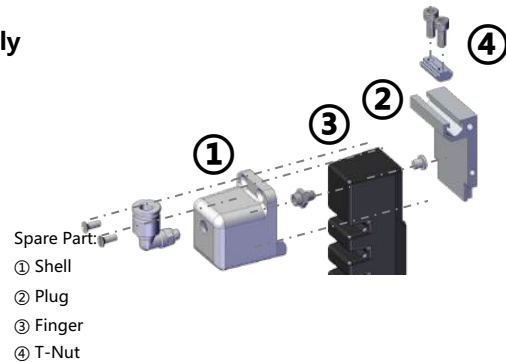
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



### 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.

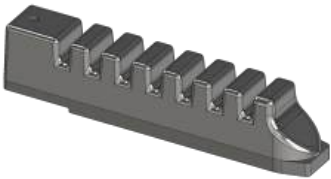
### PK-BV5 Accessory Package (optional)







F -B8T / LF1

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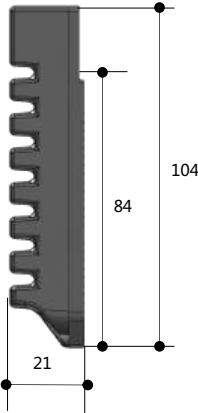
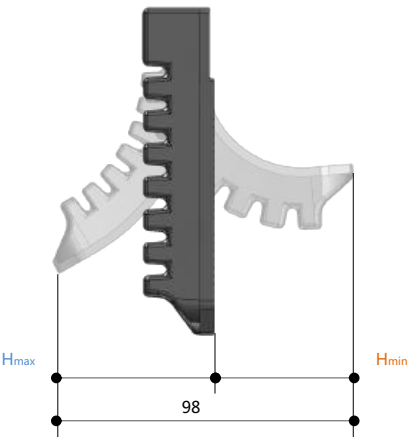


Finger Pattern		Features							
LF1	Special Form	Suitable for smooth dry workpieces and soft food.							
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material	
F-B8T/LF1[P]		F-B8T/LF1[PAS]			F-B8T/LF1[H]			F-B8T/LF1[HAS]	
Finger color: Black					Finger color: Grey				
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.

Dimension Parameters

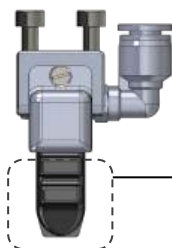
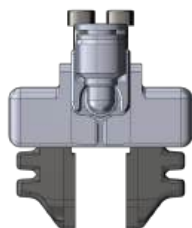
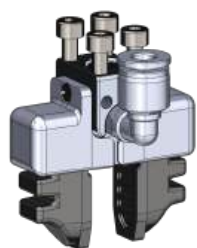


FM







## FM -C3V1 / 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-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

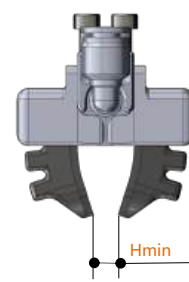
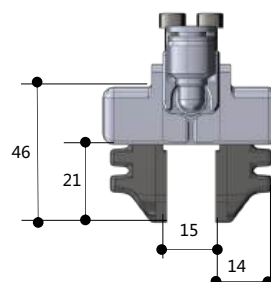
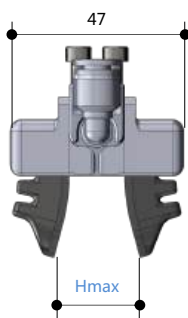
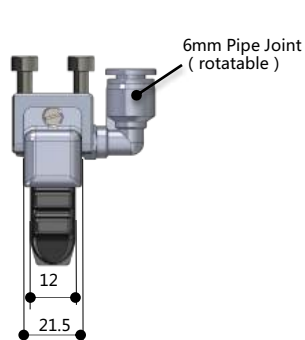


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



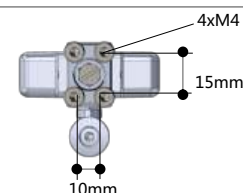
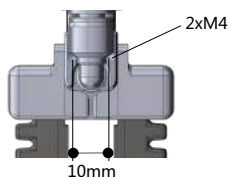
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

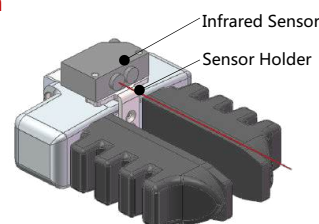
### Fixation



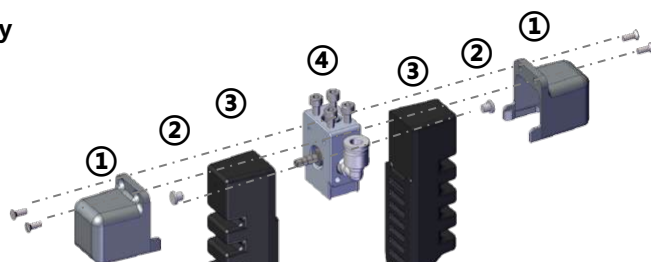
### Air Intake



### Sensor Installation



### Assembly



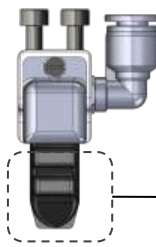
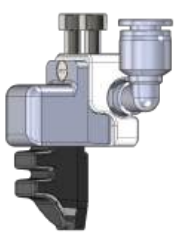
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C3V2 / LS1

## Download 3D-CAD-models for free



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

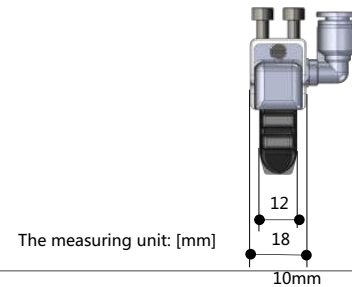
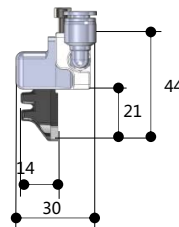
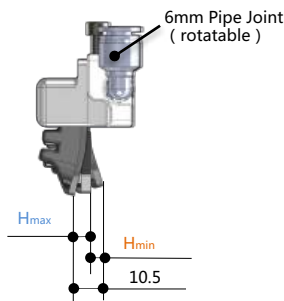
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C3V2/LS1[P]		FM-C3V2/LS1[PAS]			FM-C3V2/LS1[H]		FM-C3V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

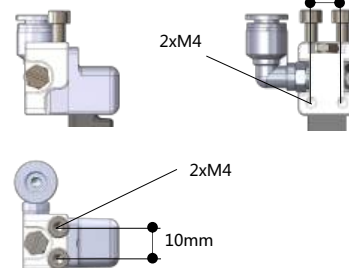
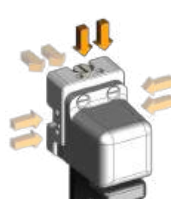


The measuring unit: [mm]

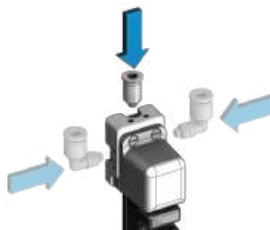
### Pose Adjustment



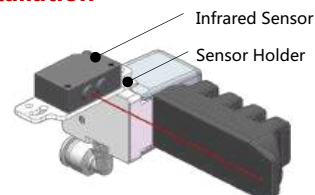
### Fixation



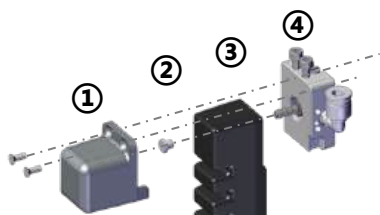
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## 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

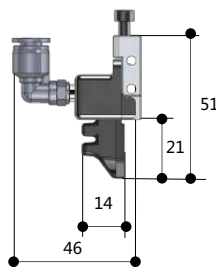
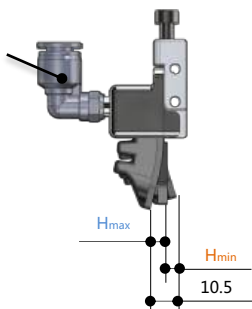


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

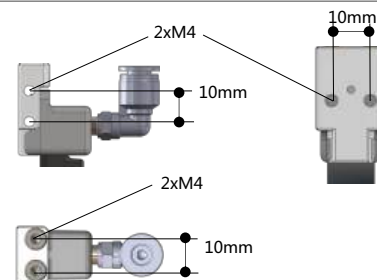


The measuring unit: [mm]

### Pose Adjustment



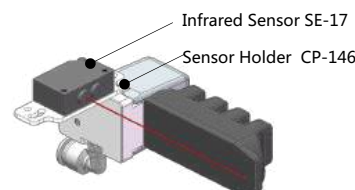
### Fixation



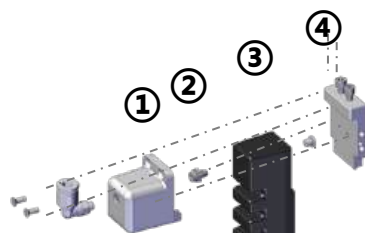
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

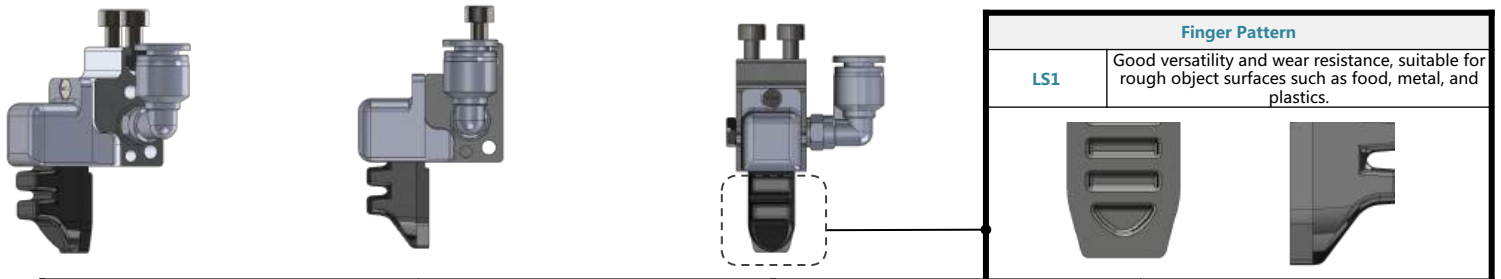
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## 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.

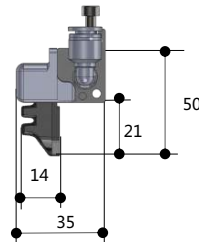
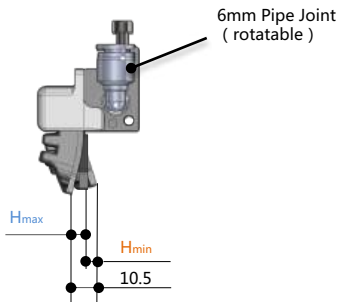
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-C3V4/LS1[P]			FM-C3V4/LS1[PAS]			FM-C3V4/LS1[H]			FM-C3V4/LS1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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.



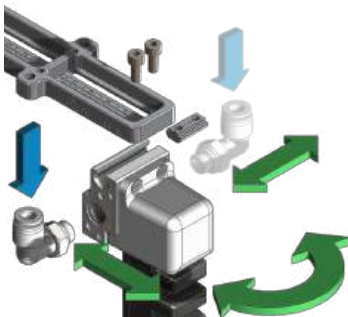
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



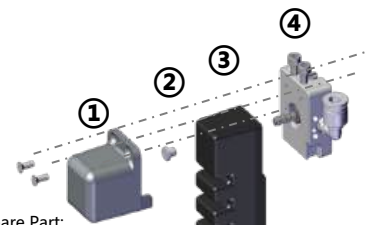
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

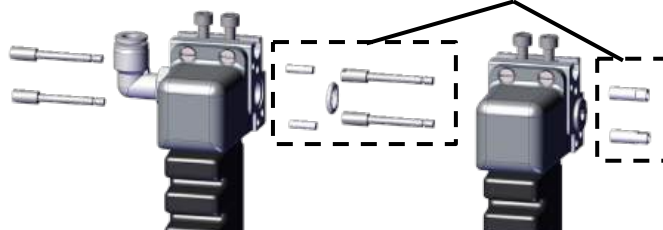
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

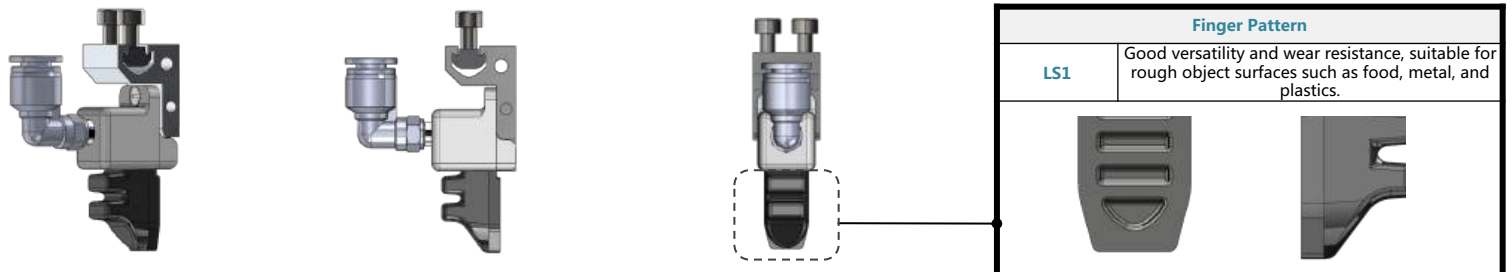
### PK-CV4 Accessory Package (optional)









## FM -C3V5 / LS1

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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

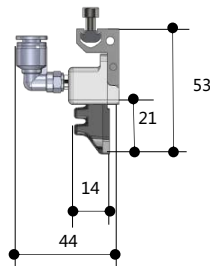
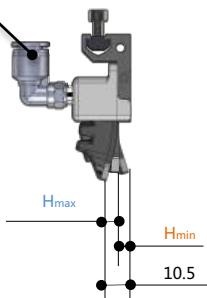


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

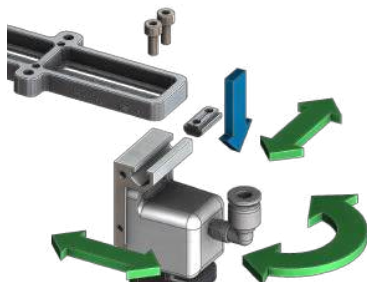
6mm Pipe Joint  
( rotatable )



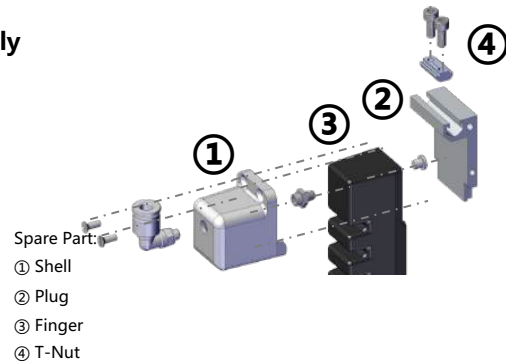
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

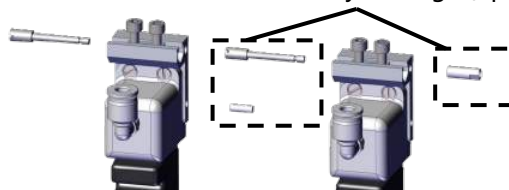


### Series combination:

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.

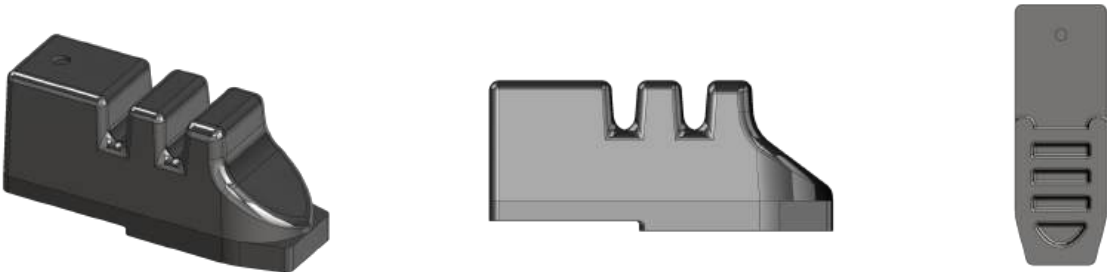
### PK-CV5 Accessory Package (optional)





F -C3T / LS1

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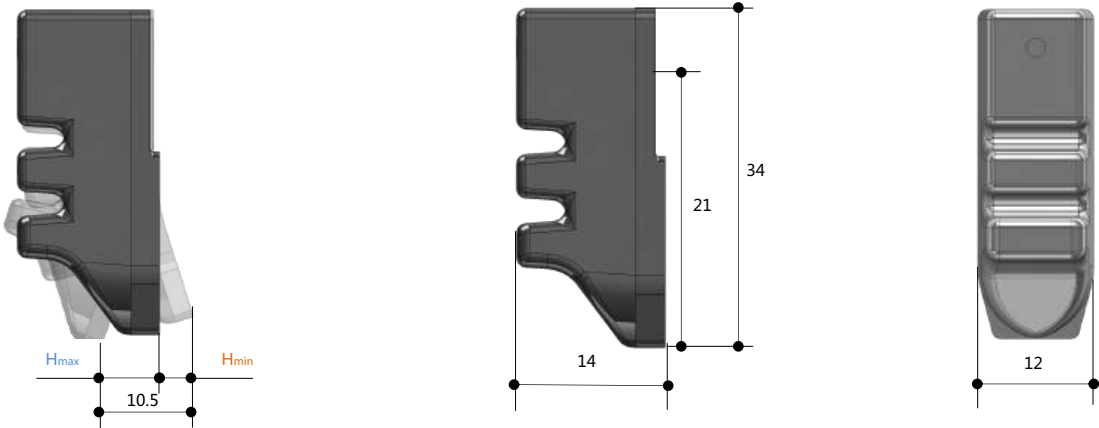


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C3T/LS1[P]		F-C3T/LS1[PAS]			F-C3T/LS1[H]			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.

Dimension Parameters

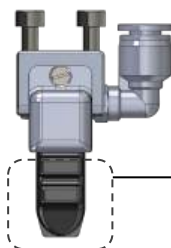
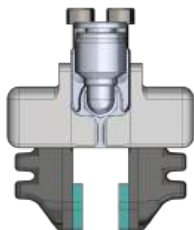
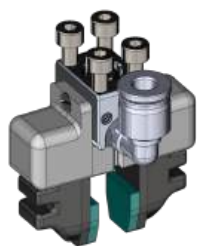


FM







## FM -C3V1 / 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-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	

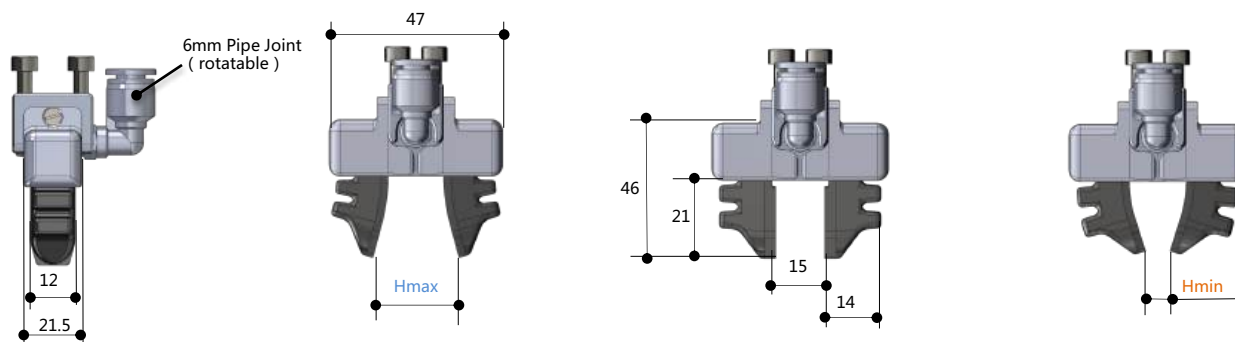


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

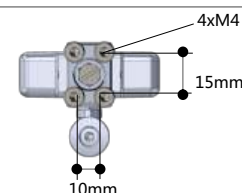
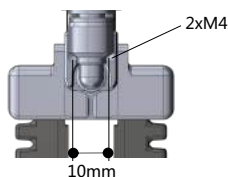


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



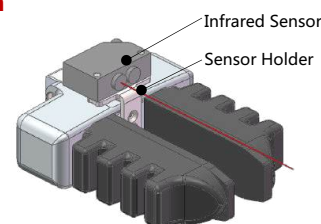
### Fixation



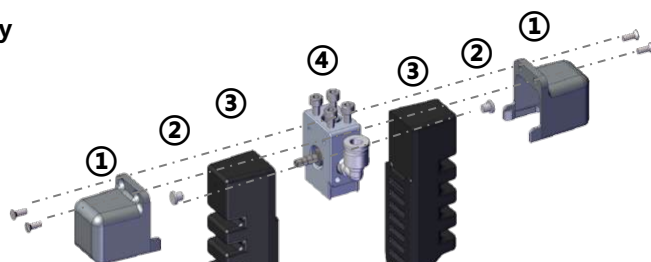
### Air Intake



### Sensor Installation



### Assembly



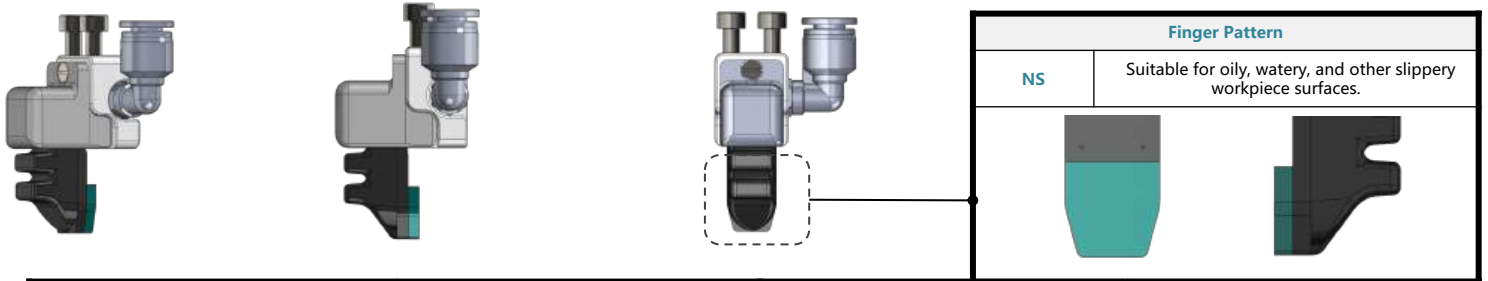
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C3V2 / NS

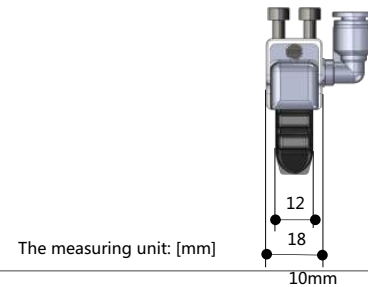
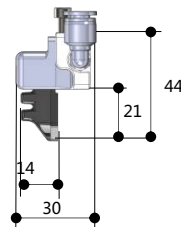
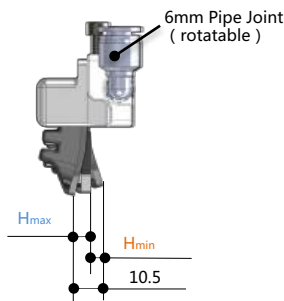
## Download 3D-CAD-models for free



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	 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.

**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.



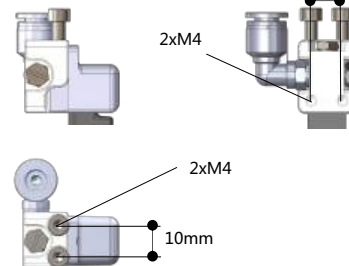
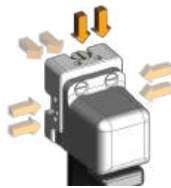
The measuring unit: [mm]

FM

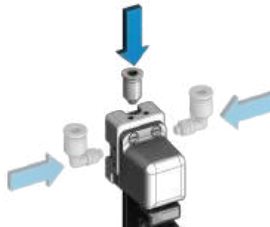
### Pose Adjustment



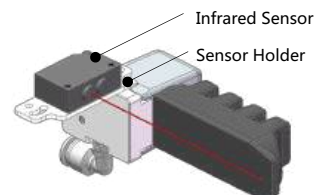
### Fixation



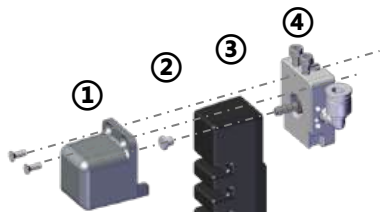
### Air Intake



### Sensor Installation



### Assembly

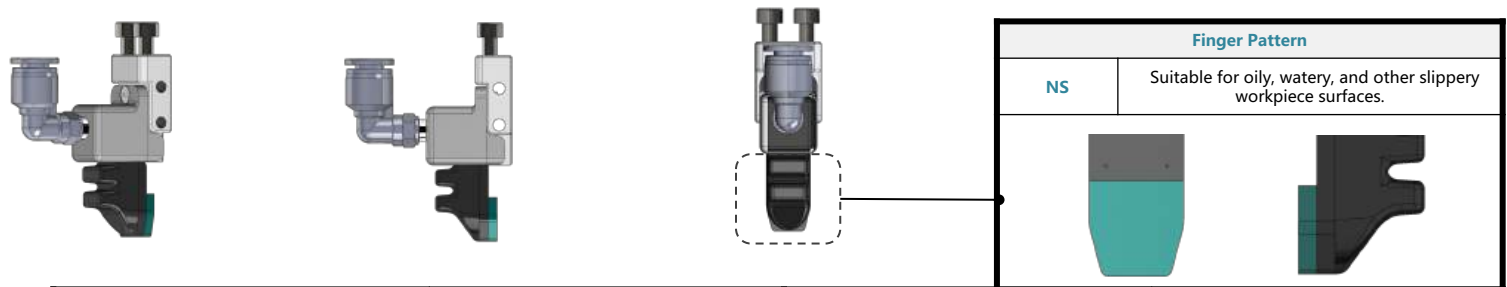






Spare Part:  
① Shell  
② Plug  
③ Finger  
④ Mounting Block



## FM -C3V3 / NS

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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

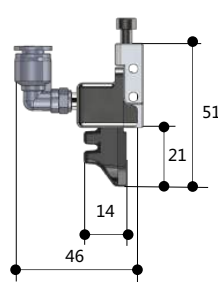
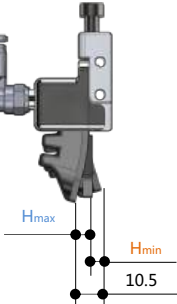


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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 )

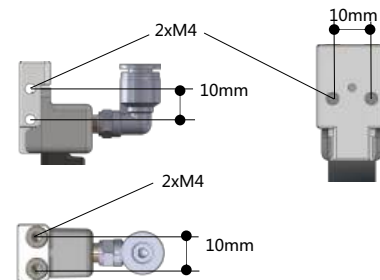


The measuring unit: [mm]

### Pose Adjustment



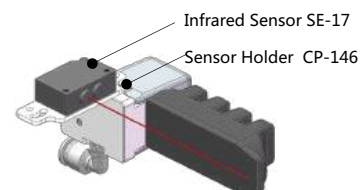
### Fixation



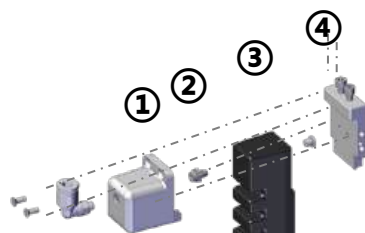
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

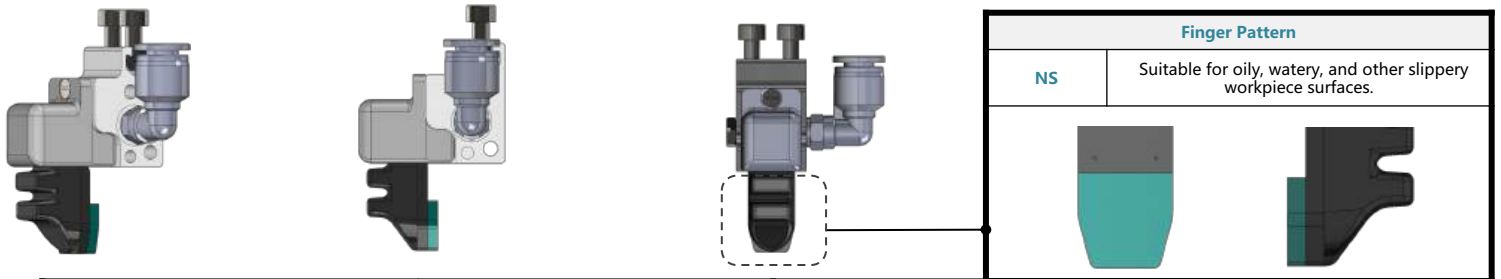
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -C3V4 / NS

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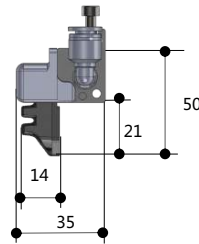
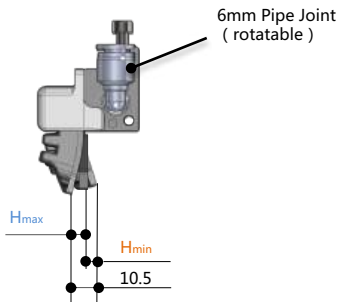
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C3V4/NS[P]		FM-C3V4/NS[PAS]			FM-C3V4/NS[H]		FM-C3V4/NS[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [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.

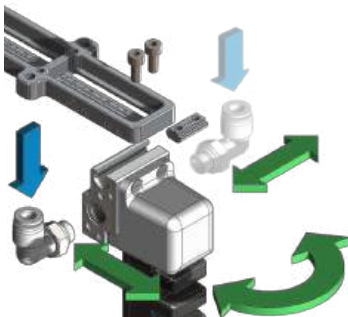


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

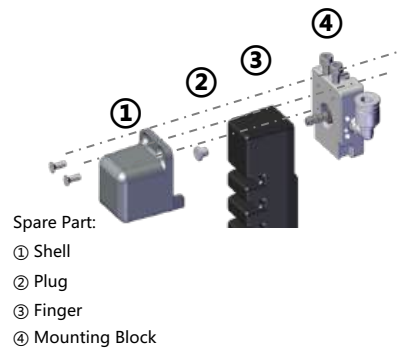


The measuring unit: [mm]

### Air Intake & Pose Adjustment



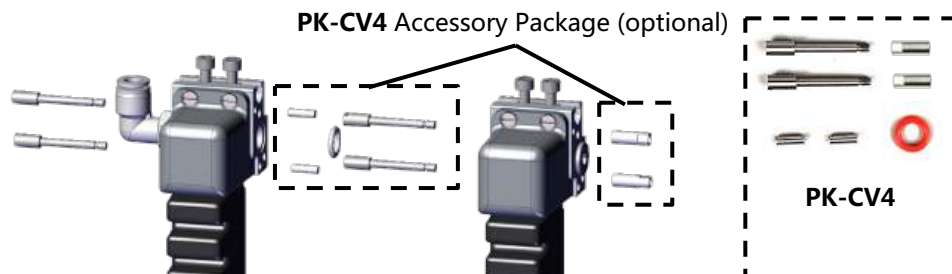
### Assembly



### 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.





## FM -C3V5 / NS

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					<b>Finger Pattern</b>				
<b>Normal Material</b> <b>FM-C3V5/NS[P]</b>					<b>NS</b> Suitable for oily, watery, and other slippery workpiece surfaces.				
<b>Dust-free Normal Material</b> <b>FM-C3V5/NS[PAS]</b>									
<b>Strong Material</b> <b>FM-C3V5/NS[H]</b>					<b>Dust-free Strong Material</b> <b>FM-C3V5/NS[HAS]</b>				
<b>Finger color: Black</b>					<b>Finger color: Grey</b>				
<b>Positive Pressure Range</b> ( P=100kPa ) Hmin[mm]	<b>Negative Pressure Range</b> ( P=-80kPa ) Hmax[mm]	<b>Safe Pressure</b> [kPa]	<b>Recommended Load per Finger</b> [g]	<b>Weight</b> [g]	<b>Positive Pressure Range</b> ( P=250kPa ) Hmin[mm]	<b>Negative Pressure Range</b> ( P=-80kPa ) Hmax[mm]	<b>Safe Pressure</b> [kPa]	<b>Recommended Load per Finger</b> [g]	<b>Weight</b> [g]
5.5	5	⚠ 120	📏 98	28	5.5	1	⚠ 220	📏 77	28

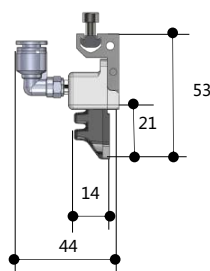
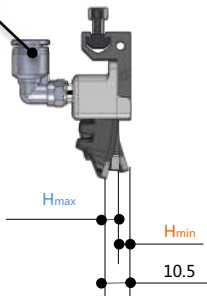


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

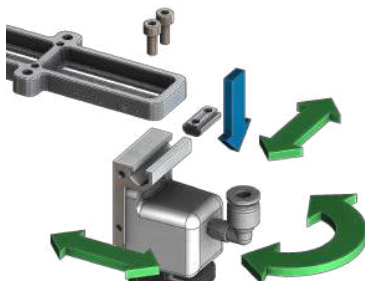
6mm Pipe Joint  
( rotatable )



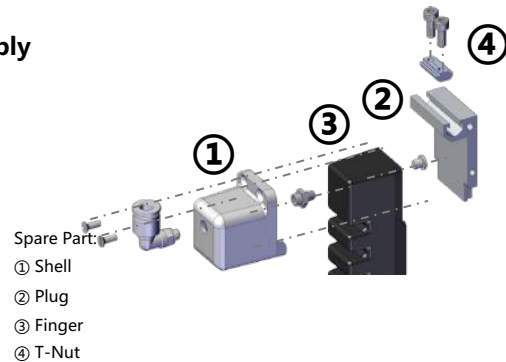
The measuring unit: [mm]



### Air Intake & Pose Adjustment



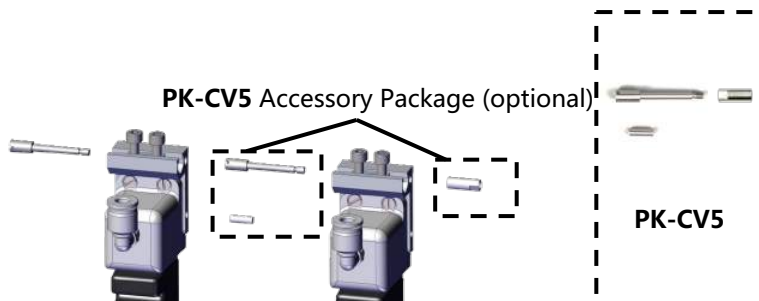
### Assembly



### 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.







F -C3T / NS

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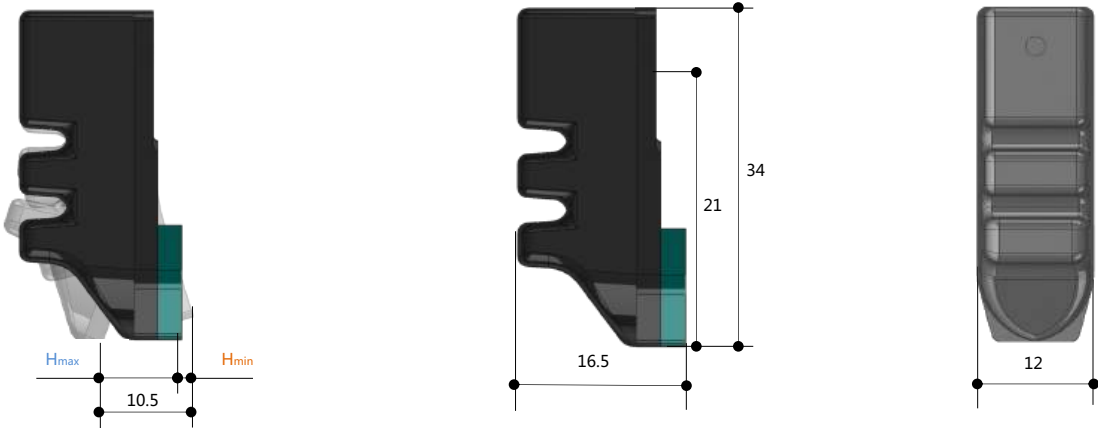


Finger Pattern		Features								
NS	Special Form	Suitable for oily, watery, and other slippery workpiece surfaces.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C3T/NS[P]		F-C3T/NS[PAS]			F-C3T/NS[H]			F-C3T/NS[HAS]		
Finger color: Black					Finger 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	 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.

Dimension Parameters

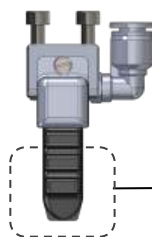
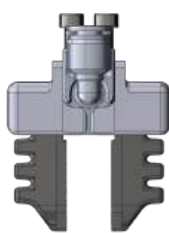


FM







## FM -C4V1 / 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-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

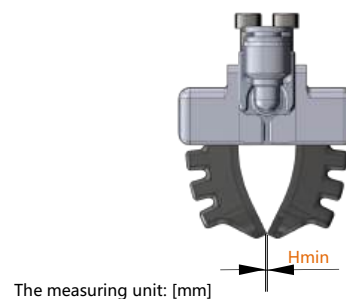
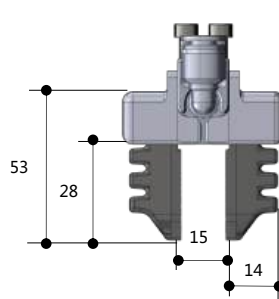
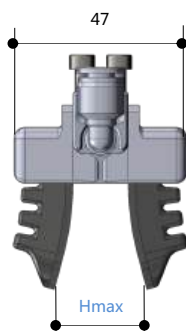
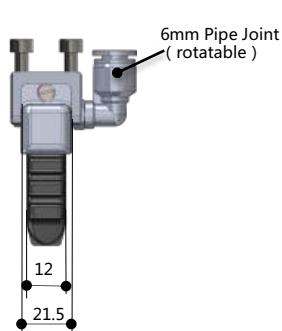


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



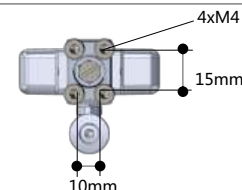
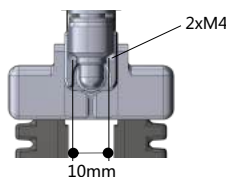
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

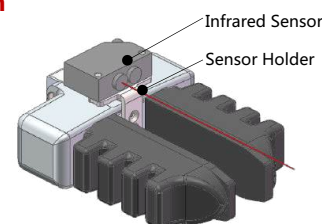
### Fixation



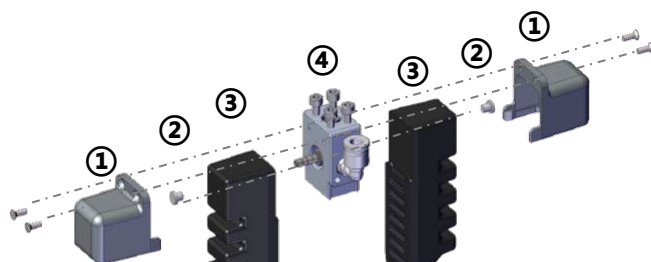
### Air Intake



### Sensor Installation



### Assembly



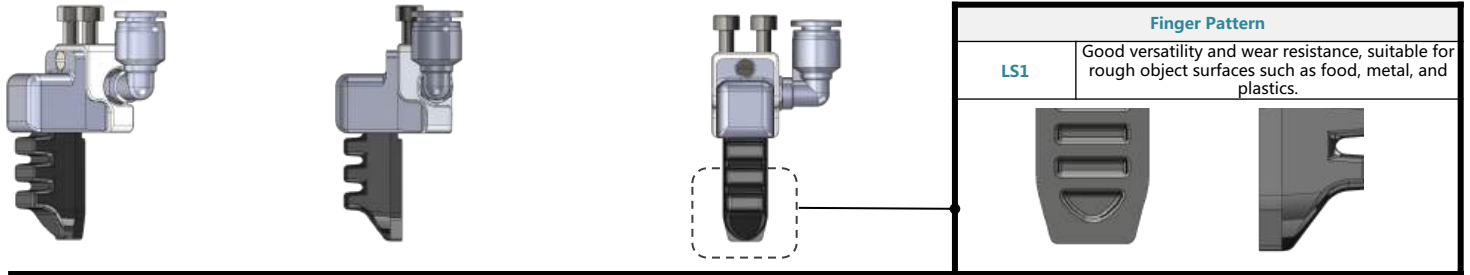
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C4V2 / LS1

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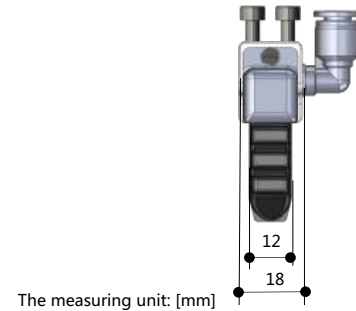
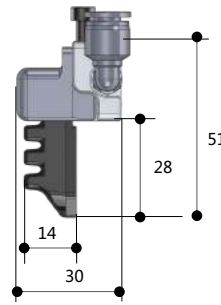
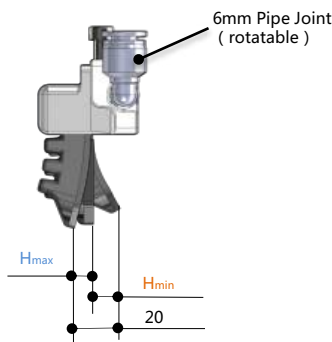
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V2/LS1[P]		FM-C4V2/LS1[PAS]			FM-C4V2/LS1[H]		FM-C4V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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	 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.



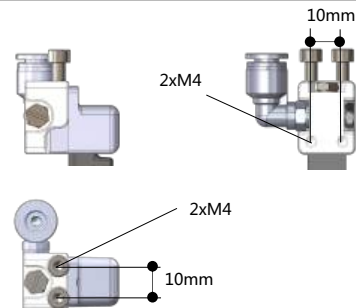
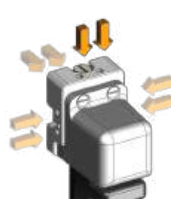
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



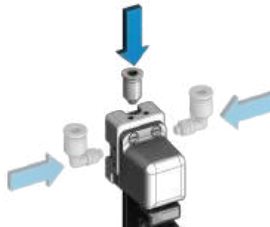
### Pose Adjustment



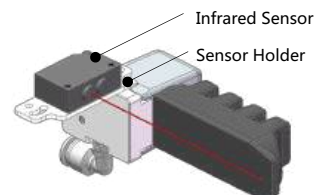
### Fixation



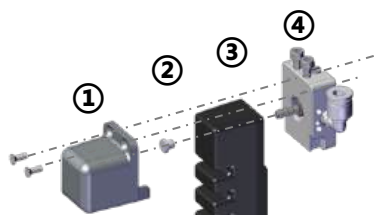
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block






## FM -C4V3 / 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-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	 104	25		11	3	 220	 91	25	

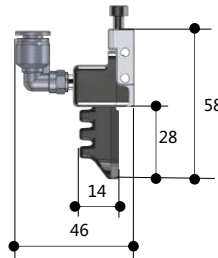
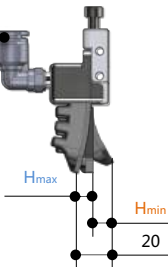


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

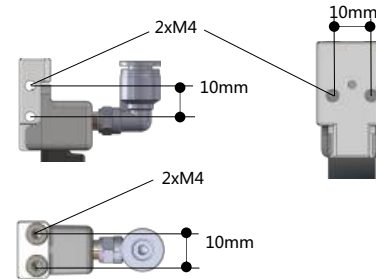


The measuring unit: [mm]

### Pose Adjustment



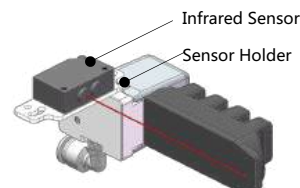
### Fixation



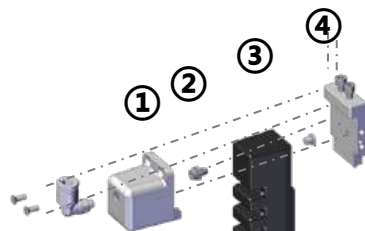
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -C4V4 / LS1

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

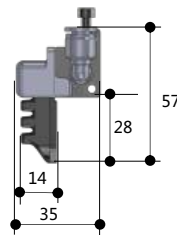
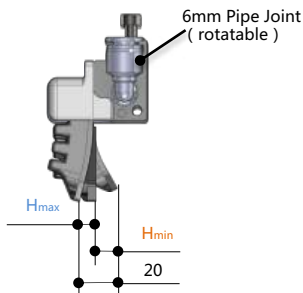
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V4/LS1[P]		FM-C4V4/LS1[PAS]			FM-C4V4/LS1[H]		FM-C4V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



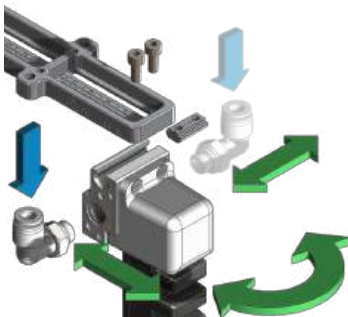
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



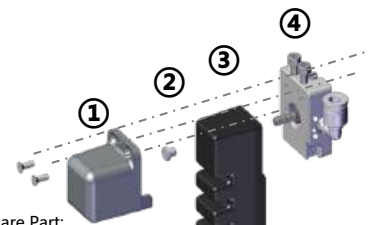
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



### Assembly



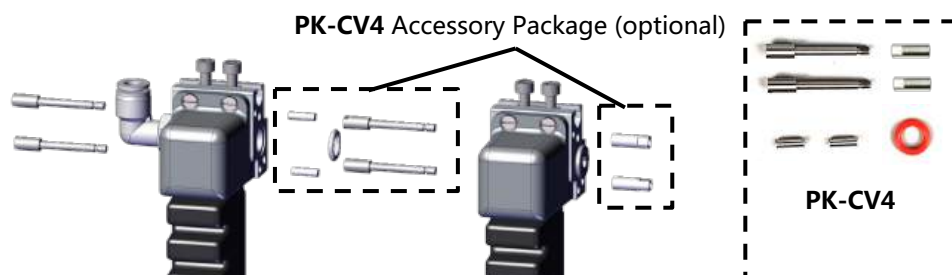
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

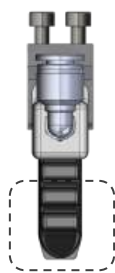
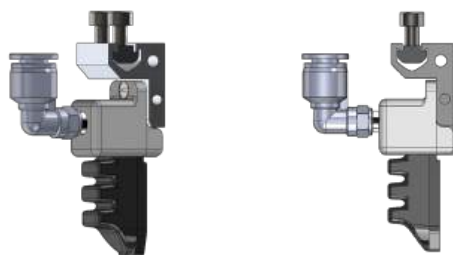
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









## FM -C4V5 / LS1

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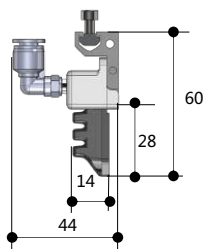
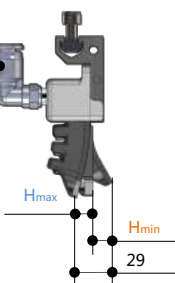
Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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.

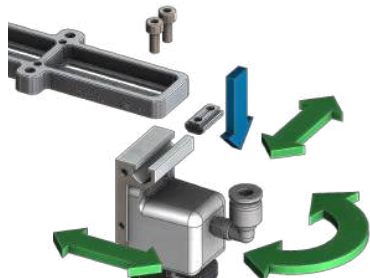
6mm Pipe Joint  
( rotatable )



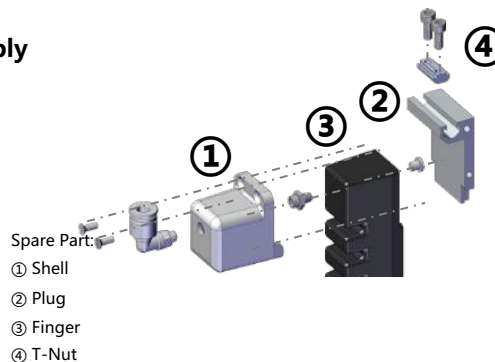
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

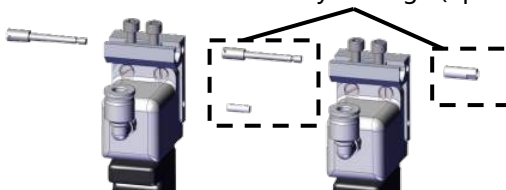


### Series combination:

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.

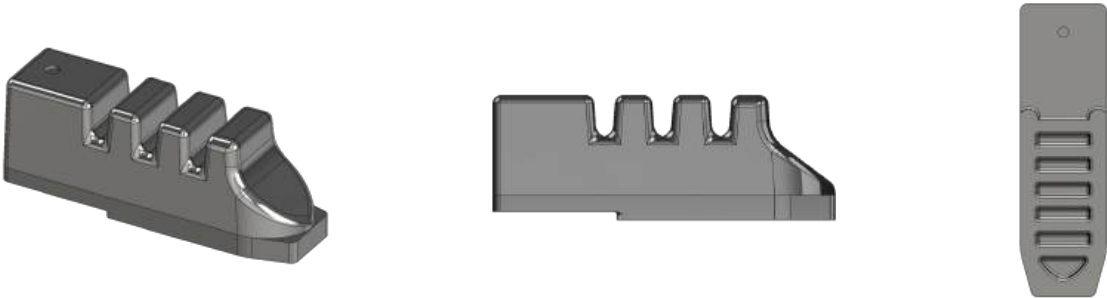
### PK-CV5 Accessory Package (optional)







F -C4T / LS1

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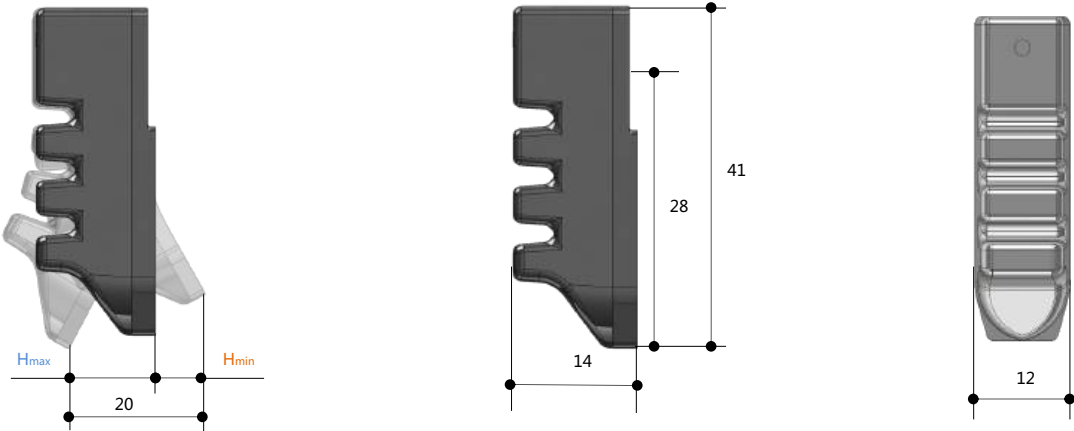


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C4T/LS1[P]		F-C4T/LS1[PAS]			F-C4T/LS1[H]			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.

Dimension Parameters

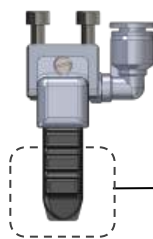
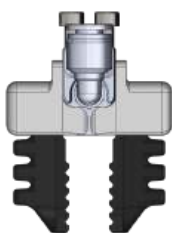
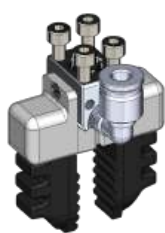


FM







## FM -C4V1 / 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-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	 208	44	0	21	 220	 182	44

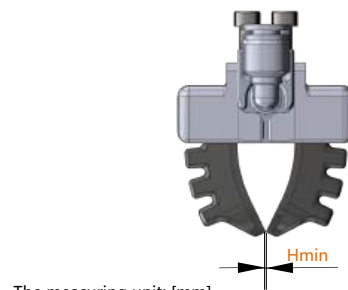
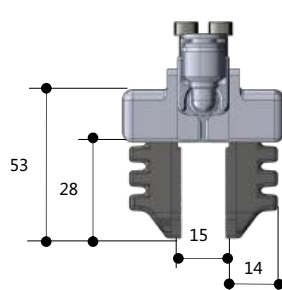
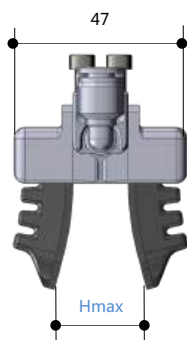
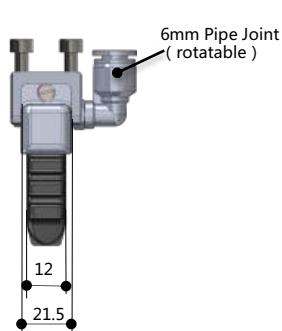


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



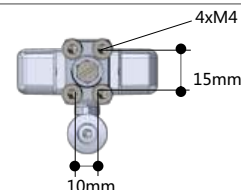
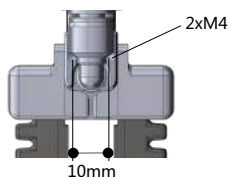
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

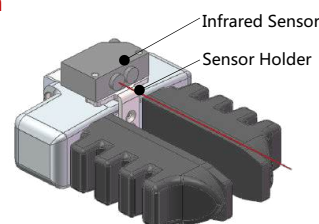
### Fixation



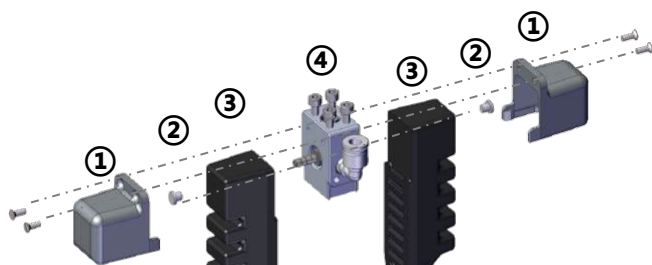
### Air Intake



### Sensor Installation



### Assembly



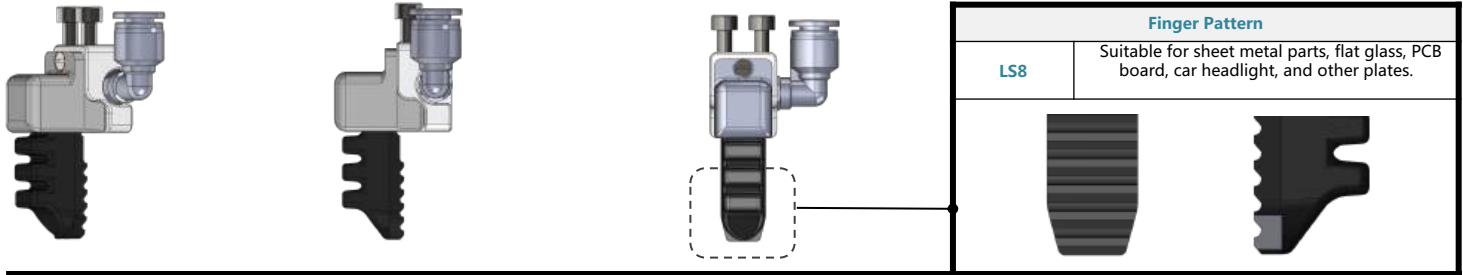
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C4V2 / LS8

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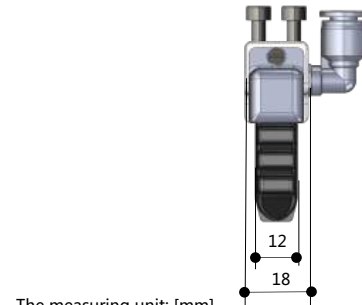
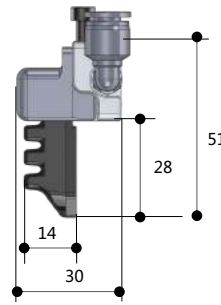
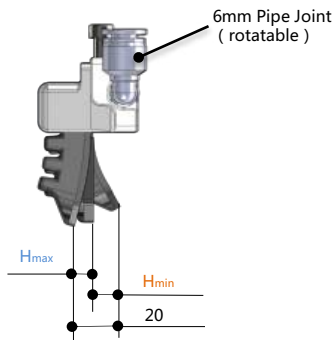
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V2/LS8[P]		FM-C4V2/LS8[PAS]			FM-C4V2/LS8[H]		FM-C4V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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	 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.

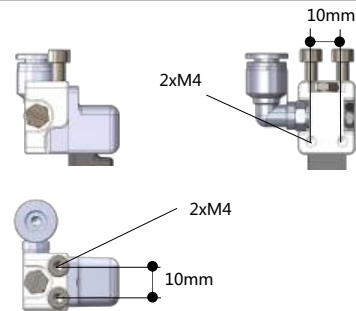
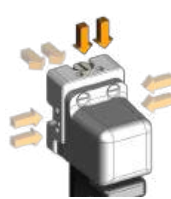


The measuring unit: [mm]

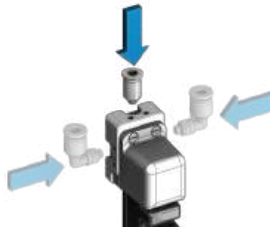
### Pose Adjustment



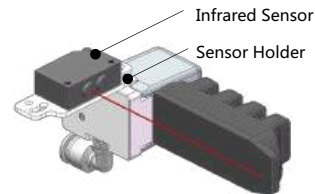
### Fixation



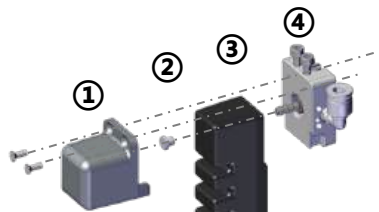
### Air Intake



### Sensor Installation



### Assembly



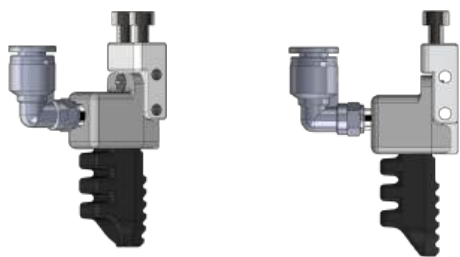
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C4V3 / LS8

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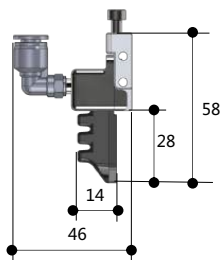
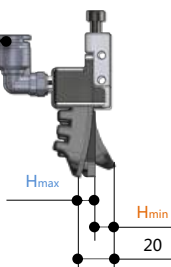
Finger Pattern	
LS8	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.

Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-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	 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.

6mm Pipe Joint  
( rotatable )

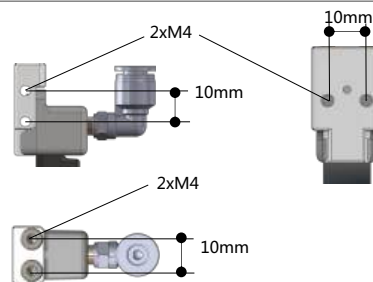


The measuring unit: [mm]

### Pose Adjustment



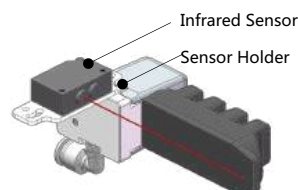
### Fixation



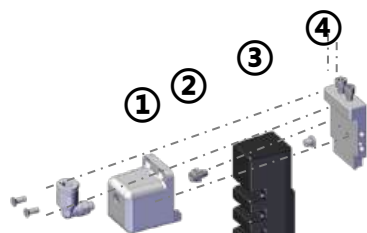
### Air Intake



### Sensor Installation



### Assembly



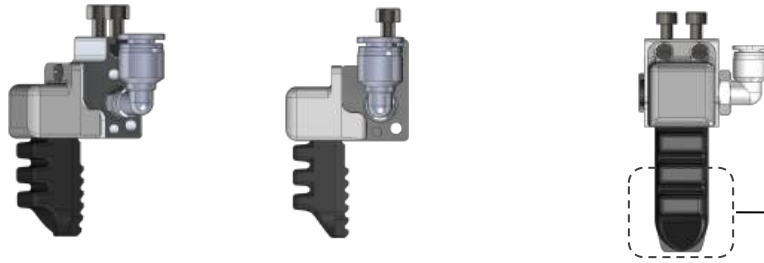
Spare Part:  
① Shell  
② Plug  
③ Finger  
④ Mounting Block









## FM -C4V4 / LS8

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

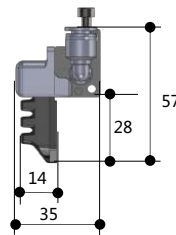
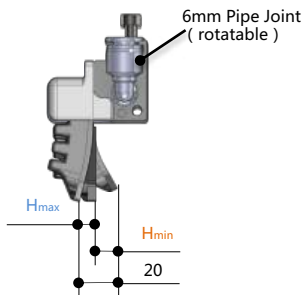
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V4/LS8[P]		FM-C4V4/LS8[PAS]			FM-C4V4/LS8[H]		FM-C4V4/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



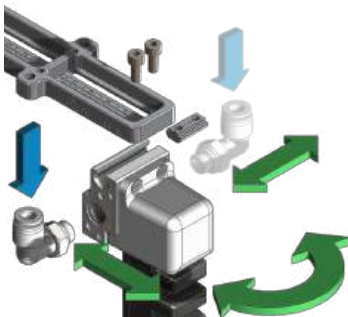
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



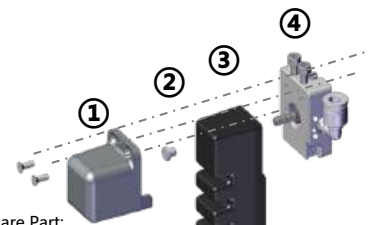
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



### Assembly



Spare Part:

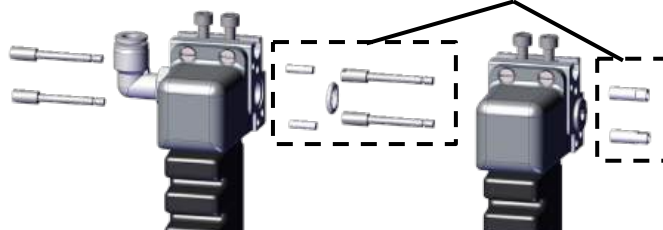
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.

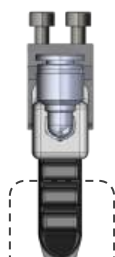
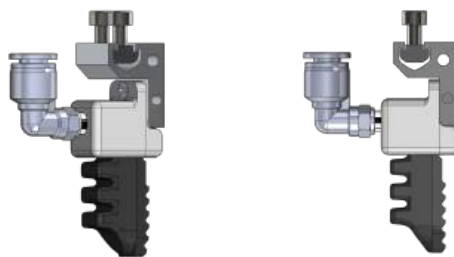
### PK-CV4 Accessory Package (optional)









## FM -C4V5 / 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-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

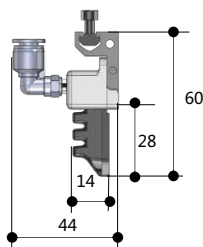
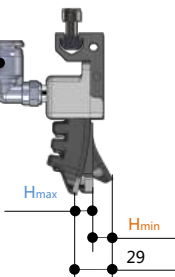


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

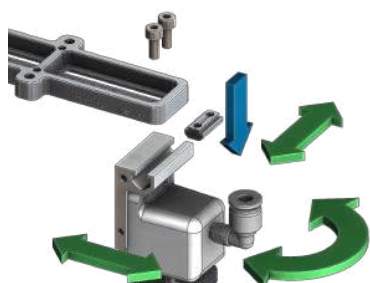
6mm Pipe Joint  
( rotatable )



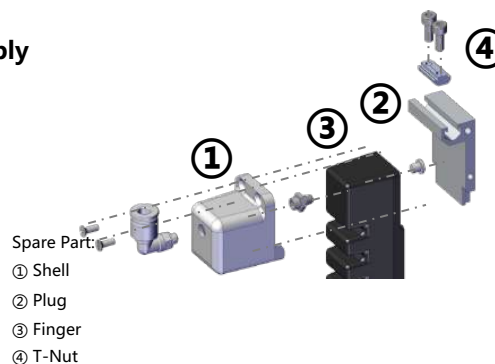
The measuring unit: [mm]



### Air Intake & Pose Adjustment



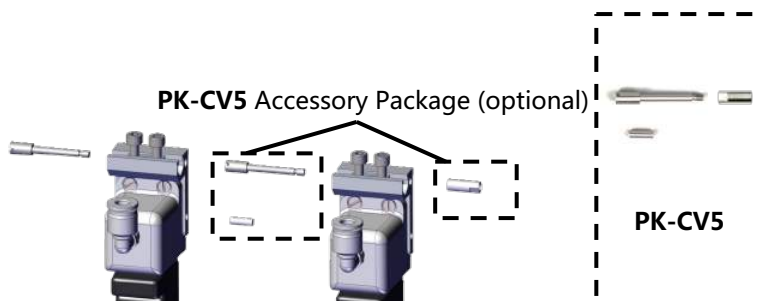
### Assembly



### 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.

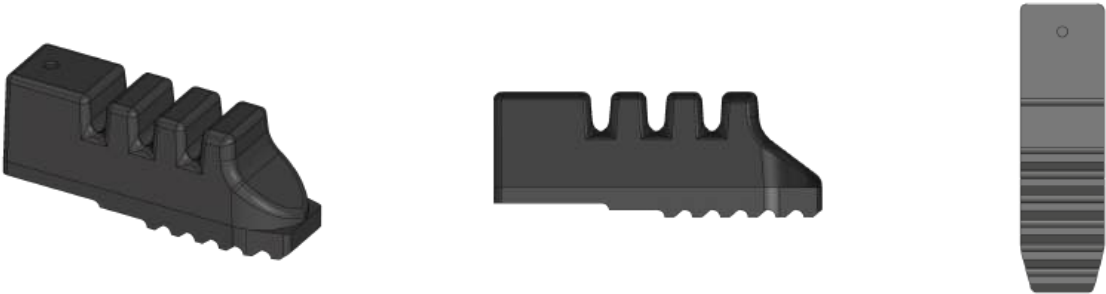
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.







F -C4T / LS8

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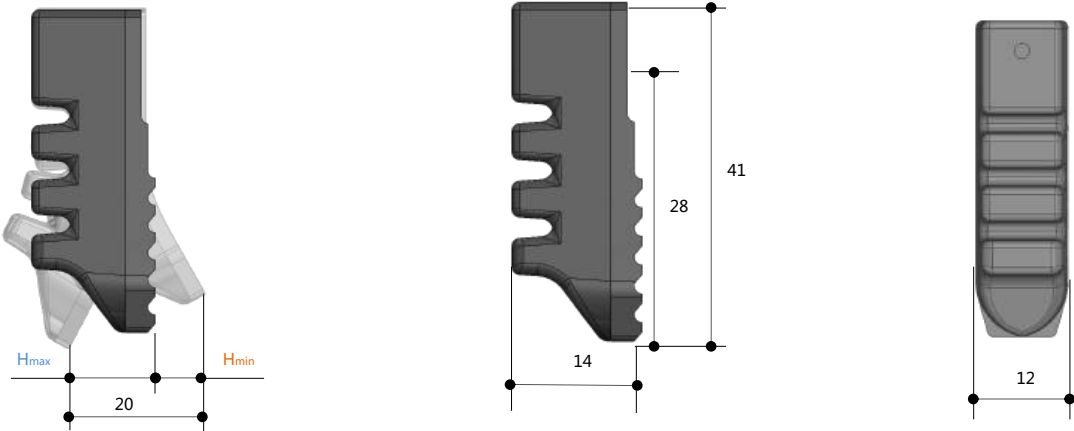


Finger Pattern		Features								
LS8	Standard form	Suitable for sheet metal parts, flat glass, PCB board, car headlight, and other plates.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C4T/LS8[P]		F-C4T/LS8[PAS]			F-C4T/LS8[H]			F-C4T/LS8[HAS]		
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.

Dimension Parameters

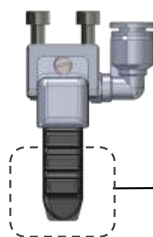
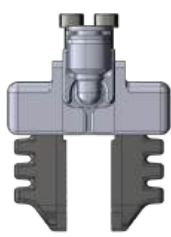


FM







## FM -C4V1 / 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-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

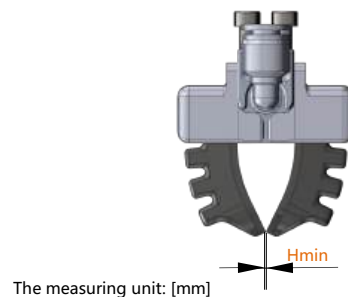
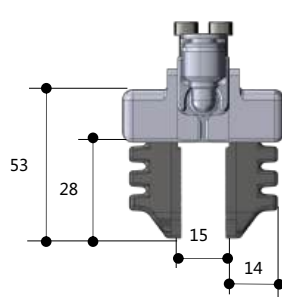
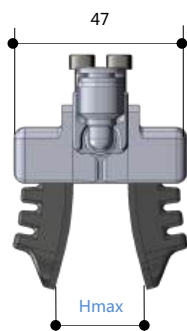
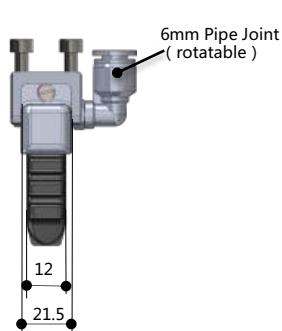


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



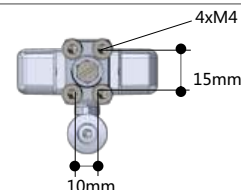
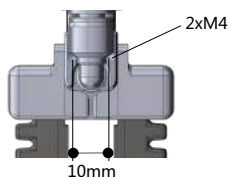
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

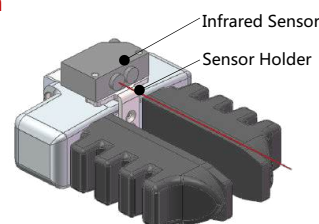
### Fixation



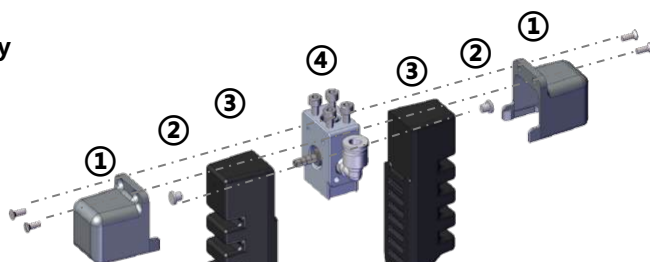
### Air Intake



### Sensor Installation



### Assembly



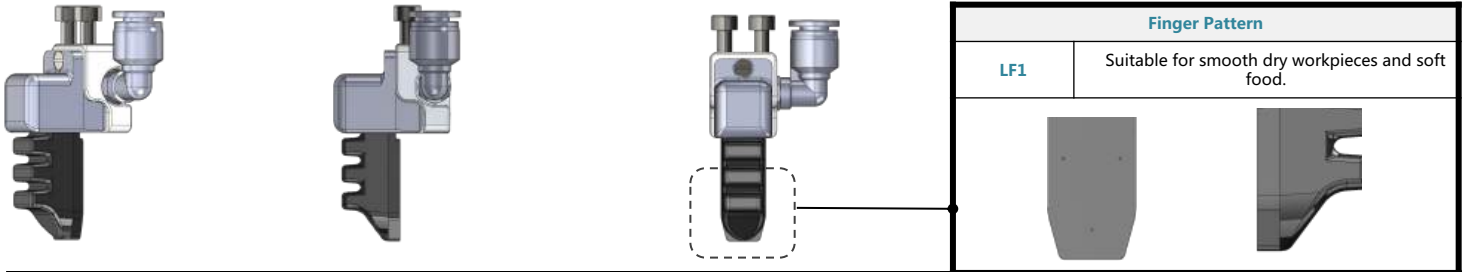
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C4V2 / LF1

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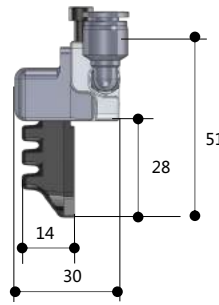
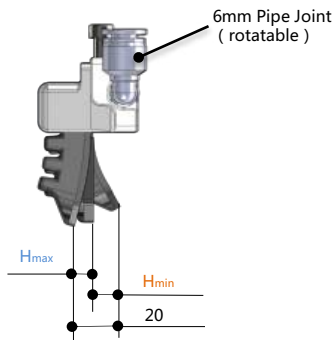
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V2/LF1[P]		FM-C4V2/LF1[PAS]			FM-C4V2/LF1[H]		FM-C4V2/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



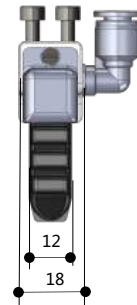
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



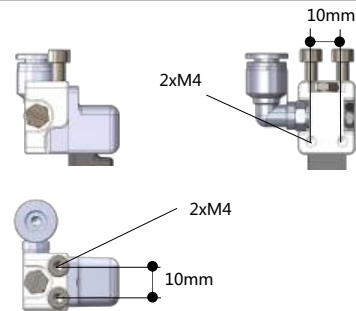
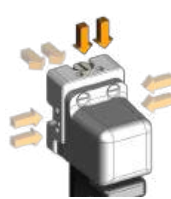
The measuring unit: [mm]



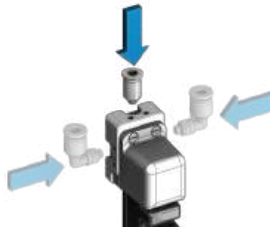
### Pose Adjustment



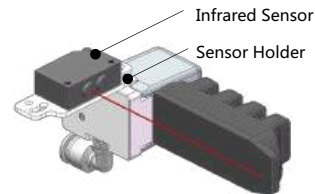
### Fixation



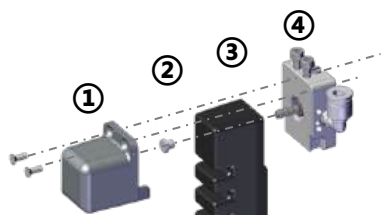
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C4V3 / 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-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		

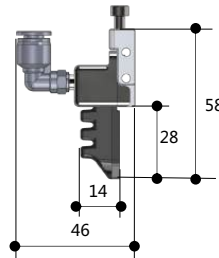
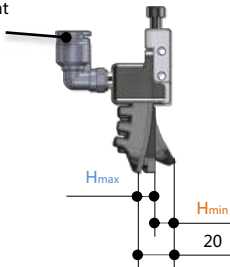


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

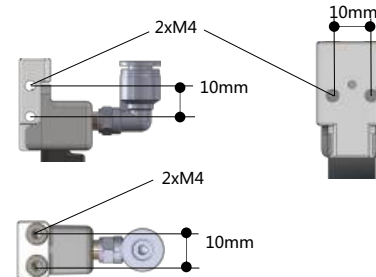


The measuring unit: [mm]

### Pose Adjustment



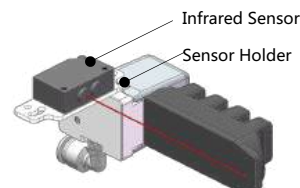
### Fixation



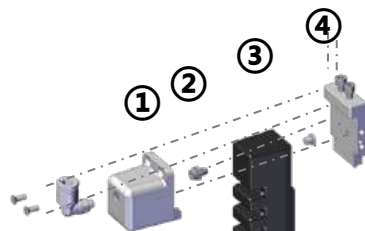
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -C4V4 / LF1

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

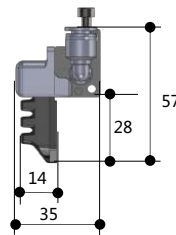
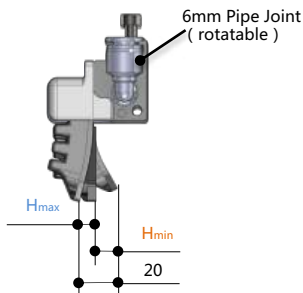
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V4/LF1[P]		FM-C4V4/LF1[PAS]			FM-C4V4/LF1[H]		FM-C4V4/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



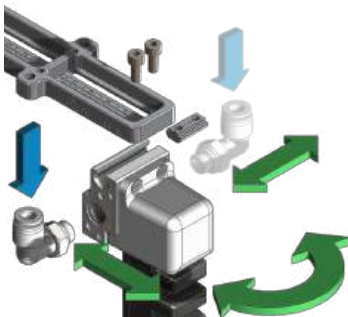
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



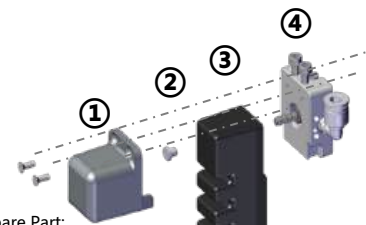
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



### Assembly



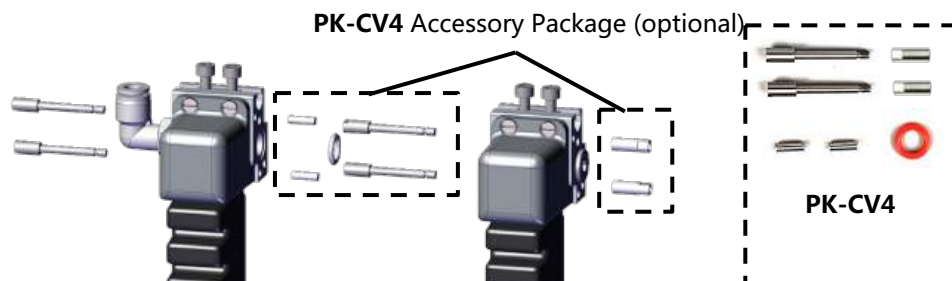
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

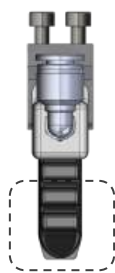
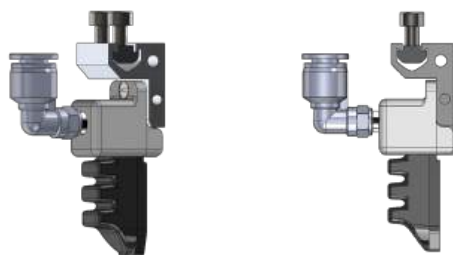
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









## FM -C4V5 / LF1

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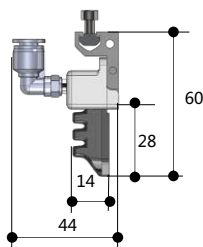
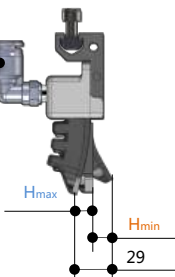
Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

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.

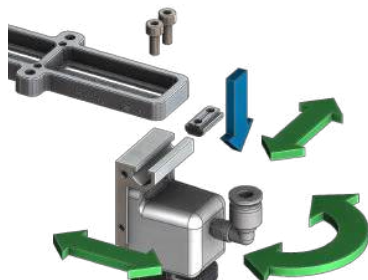
6mm Pipe Joint  
( rotatable )



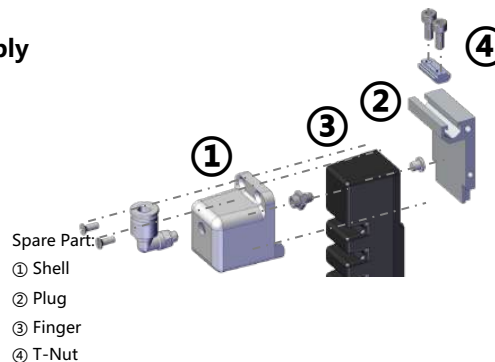
The measuring unit: [mm]



### Air Intake & Pose Adjustment



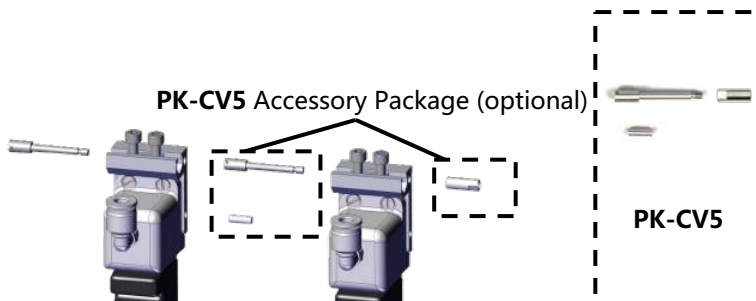
### Assembly



### 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.

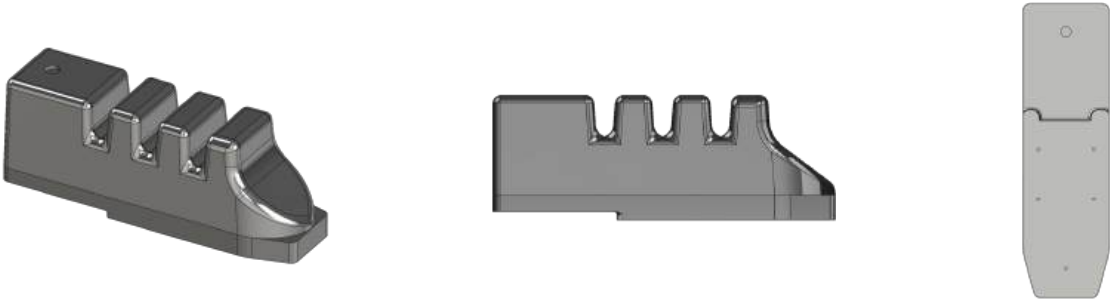
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









F -C4T / LF1

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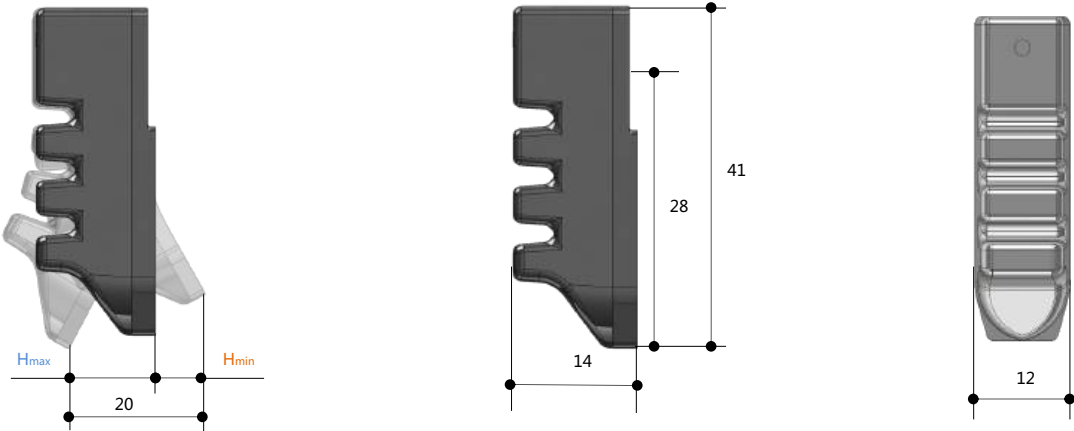


Finger Pattern		Features								
LF1	Special Form	Suitable for smooth dry workpieces and soft food.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C4T/LF1[P]		F-C4T/LF1[PAS]			F-C4T/LF1[H]			F-C4T/LF1[HAS]		
Finger color: Black					Finger color: Grey					
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.

Dimension Parameters

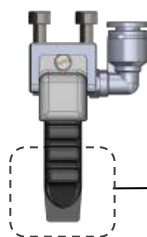
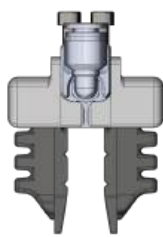
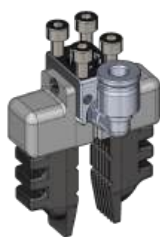




FM







## FM -C4V1 / V15

Download 3D-CAD-models for free



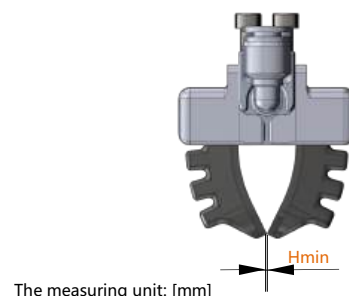
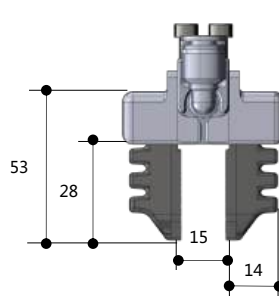
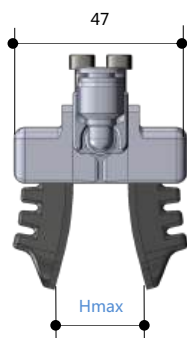
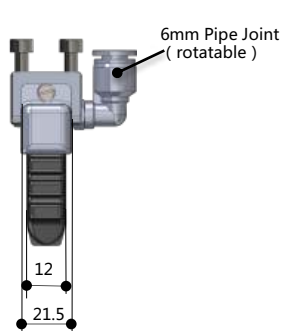
Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.
	

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.

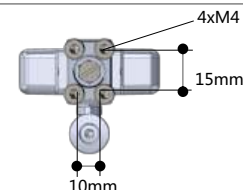
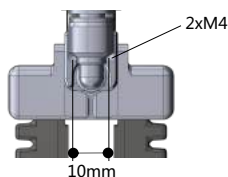
**g** The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

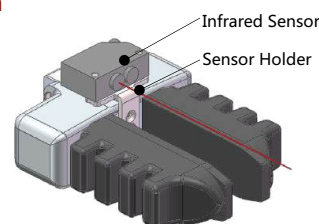
### Fixation



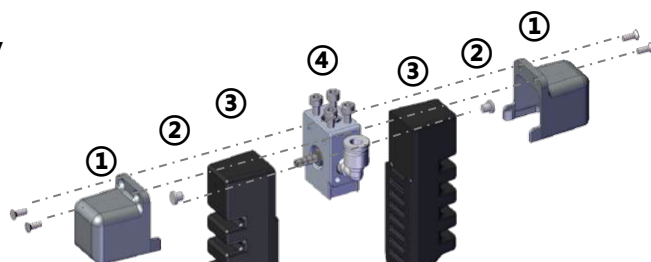
### Air Intake



### Sensor Installation



### Assembly



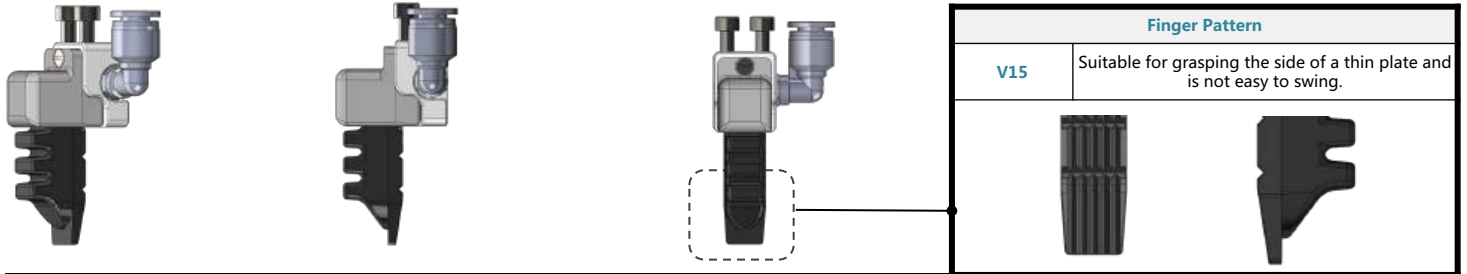
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C4V2 / V15

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Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

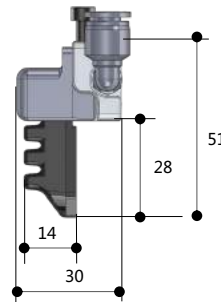
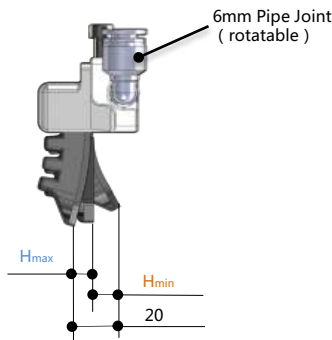
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V2/V15[P]		FM-C4V2/V15[PAS]			FM-C4V2/V15[H]		FM-C4V2/V15[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



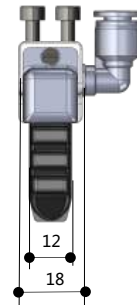
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



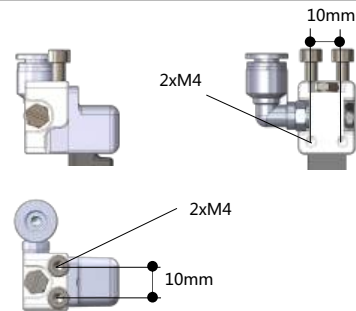
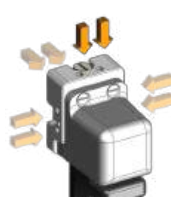
The measuring unit: [mm]



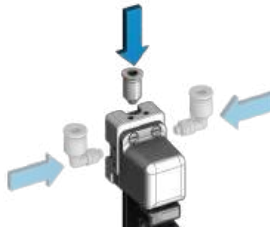
### Pose Adjustment



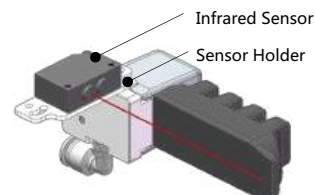
### Fixation



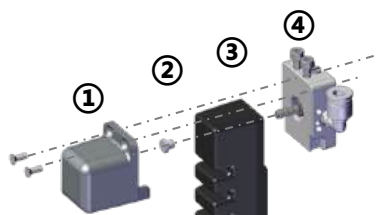
### Air Intake



### Sensor Installation



### Assembly



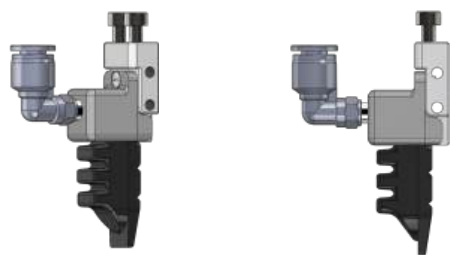
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C4V3 / 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-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	 104	25	11	3	 220	 91	25

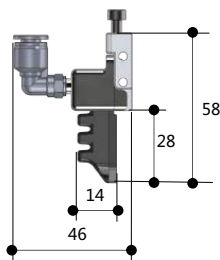
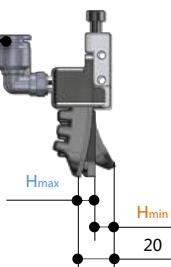


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )

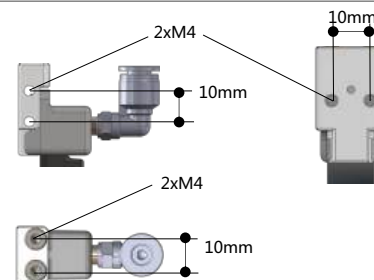


The measuring unit: [mm]

### Pose Adjustment



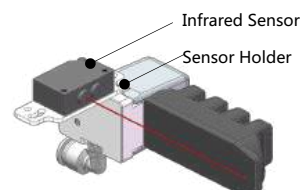
### Fixation



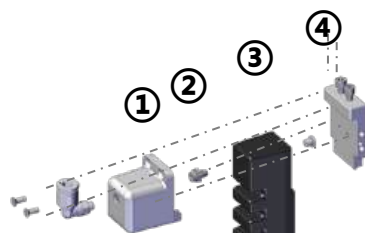
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

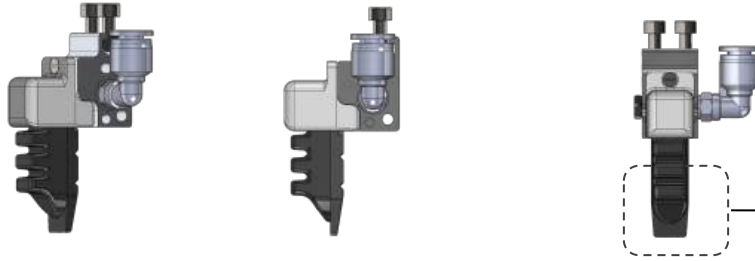
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -C4V4 / V15

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Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

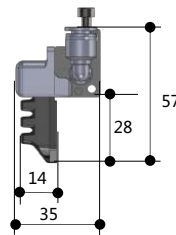
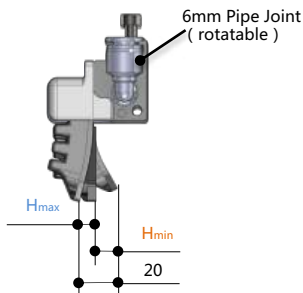
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C4V4/V15[P]		FM-C4V4/V15[PAS]			FM-C4V4/V15[H]		FM-C4V4/V15[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

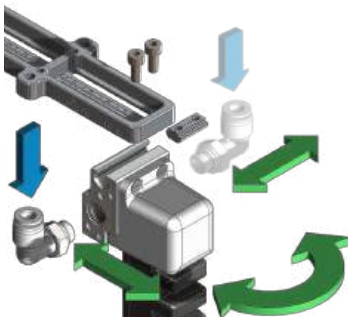


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

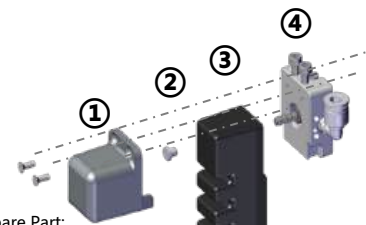


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



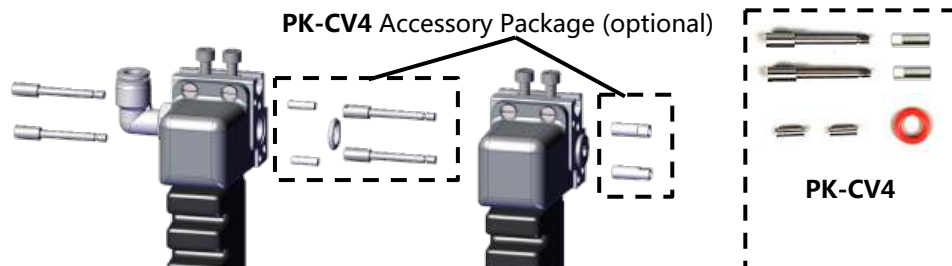
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.





## FM -C4V5 / V15

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Finger Pattern	
V15	Suitable for grasping the side of a thin plate and is not easy to swing.

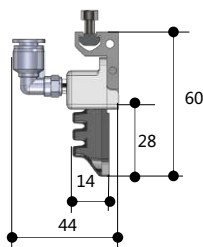
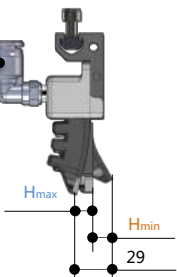
Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material			
FM-C4V5/V15[P]		FM-C4V5/V15[PAS]		FM-C4V5/V15[H]		FM-C4V5/V15[HAS]			
Finger color: Black									
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	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

Finger color: Grey							
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	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.

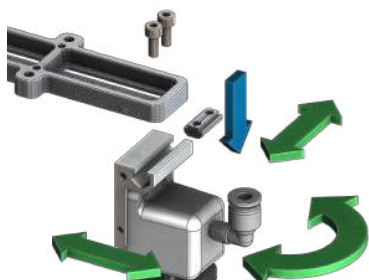
6mm Pipe Joint  
( rotatable )



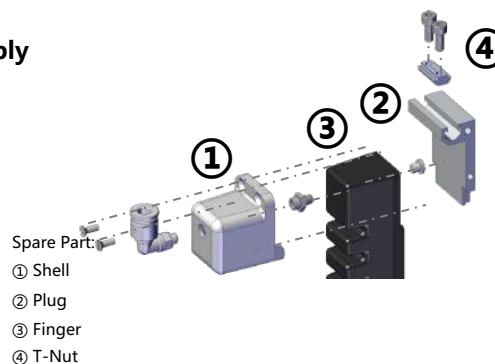
The measuring unit: [mm]



### Air Intake & Pose Adjustment



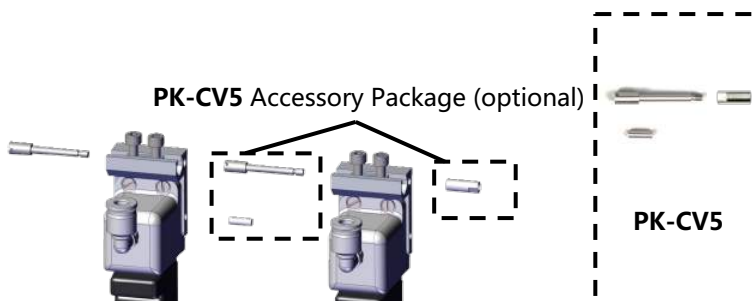
### Assembly



### 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.









F -C4T / V15

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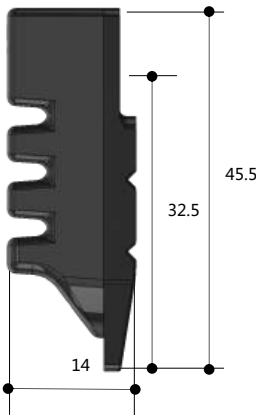
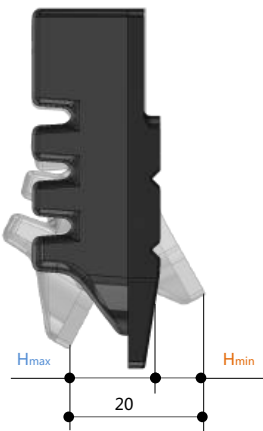


Finger Pattern		Features								
V15	Special Form	Suitable for grasping the side of a thin plate and is not easy to swing.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C4T/V15[P]		F-C4T/V15[PAS]			F-C4T/V15[H]			F-C4T/V15[HAS]		
Finger color: Black					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.

Dimension Parameters

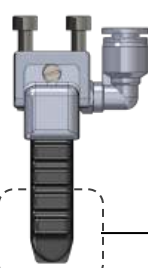
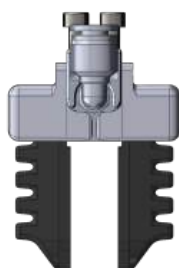




FM







## FM -C5V1 / 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-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

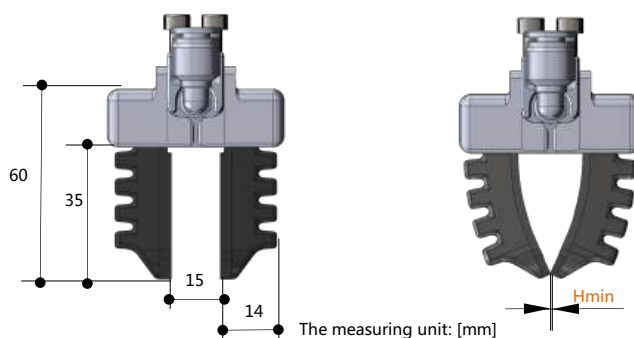
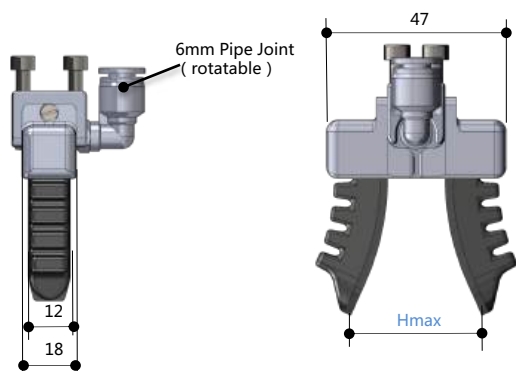


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

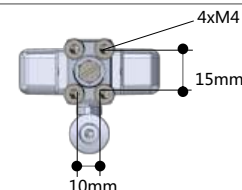
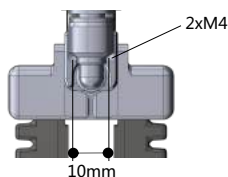


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



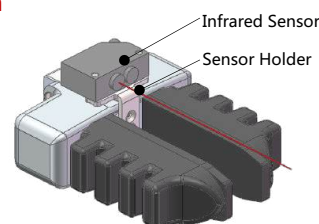
### Fixation



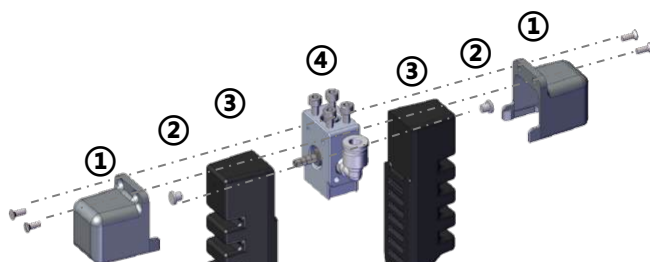
### Air Intake



### Sensor Installation



### Assembly



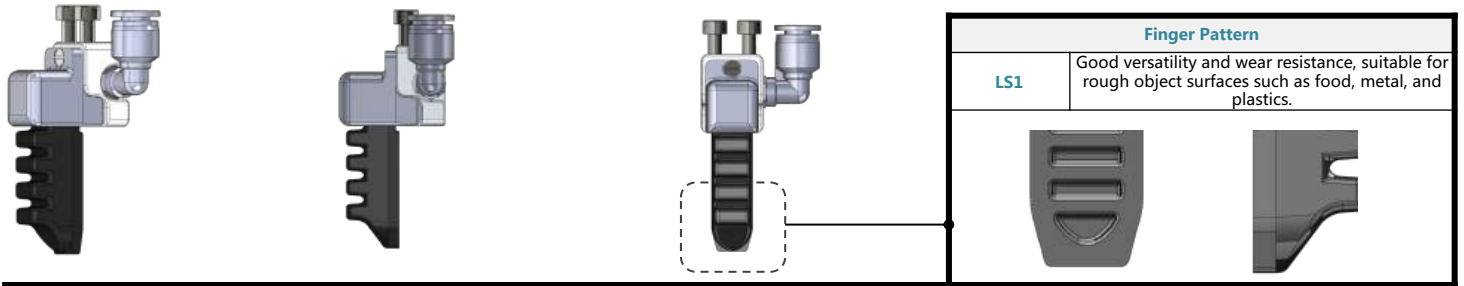
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C5V2 / LS1

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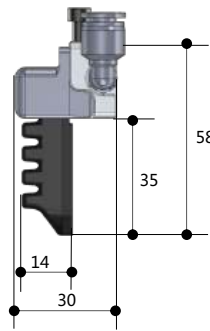
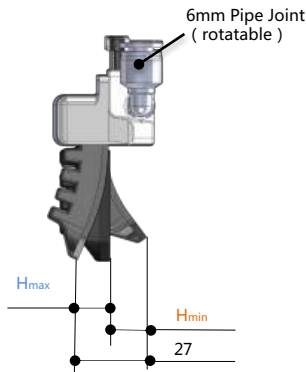
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C5V2/LS1[P]		FM-C5V2/LS1[PAS]			FM-C5V2/LS1[H]		FM-C5V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



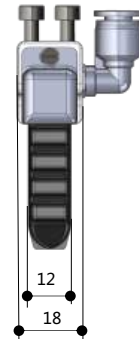
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



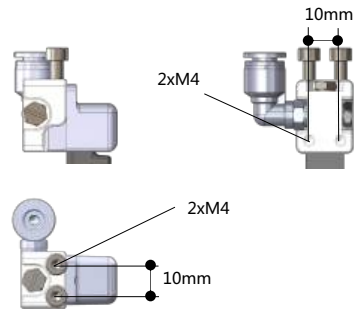
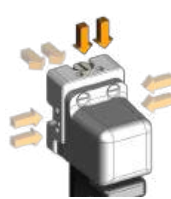
The measuring unit: [mm]



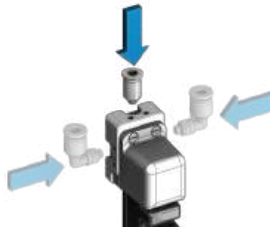
### Pose Adjustment



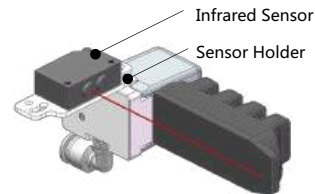
### Fixation



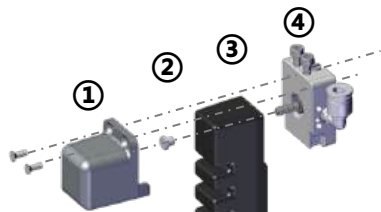
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C5V3 / LS1

## Download 3D-CAD-models for free



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	

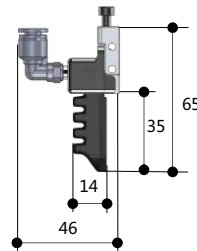
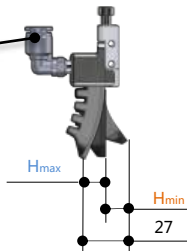


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]

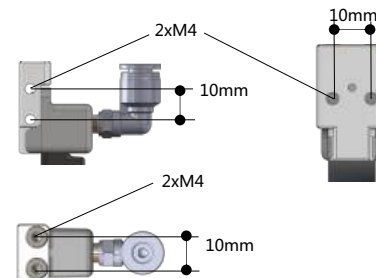


FM

### Pose Adjustment



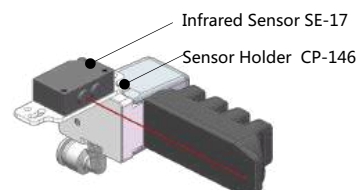
### Fixation



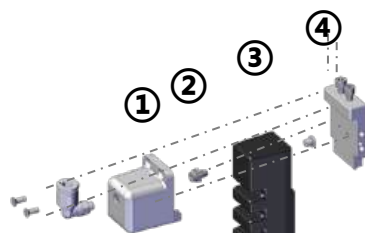
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

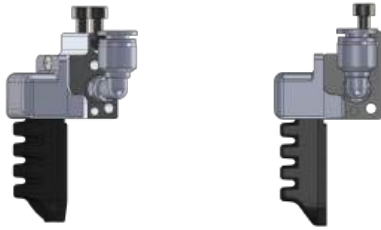
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C5V4 / LS1

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

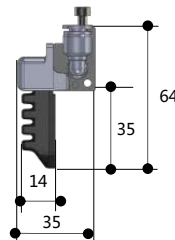
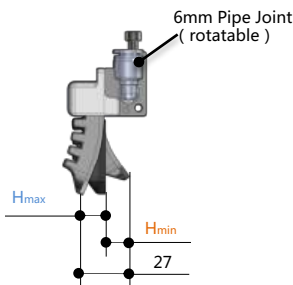
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C5V4/LS1[P]		FM-C5V4/LS1[PAS]			FM-C5V4/LS1[H]		FM-C5V4/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



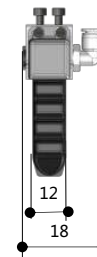
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

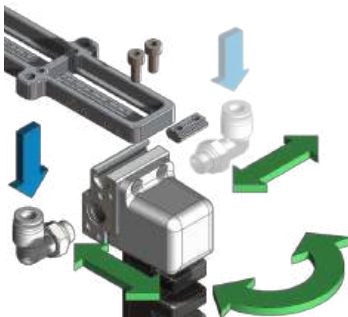


The measuring unit: [mm]

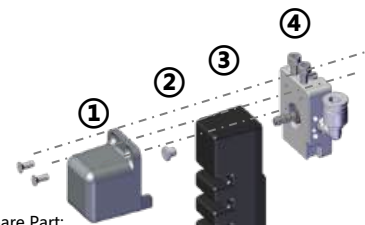


FM

### Air Intake & Pose Adjustment



### Assembly



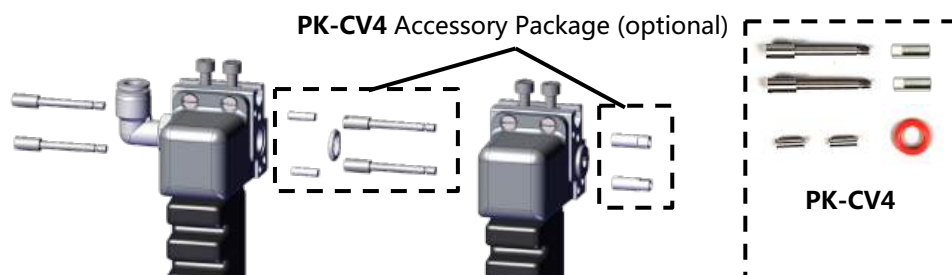
Spare Part:

- 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.

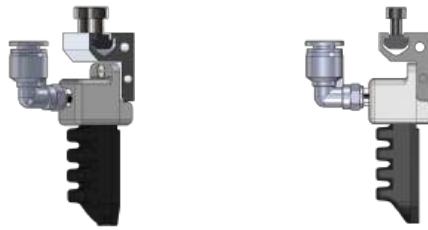
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## FM -C5V5 / 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-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	

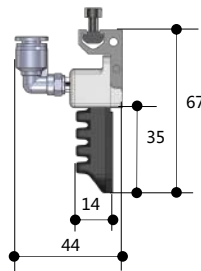
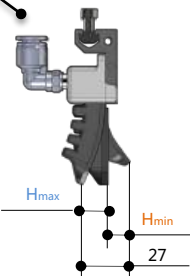


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

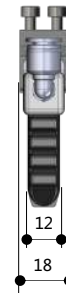


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

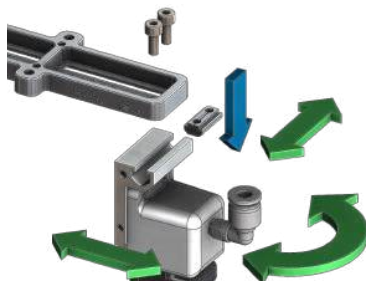
6mm Pipe Joint  
( rotatable )



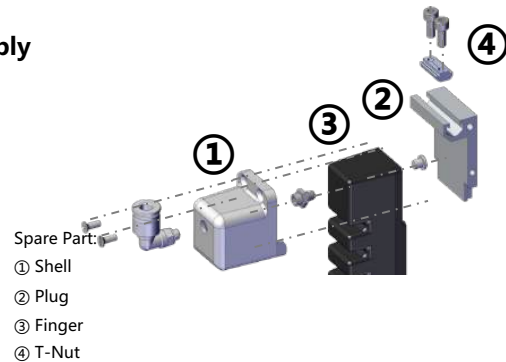
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly

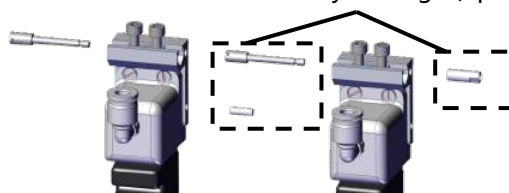


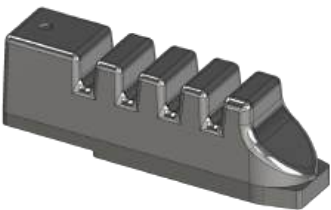
### Series combination:

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)



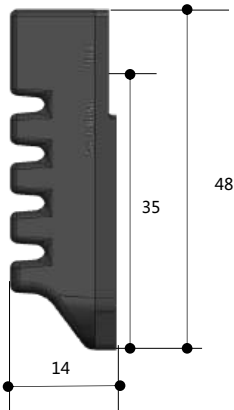
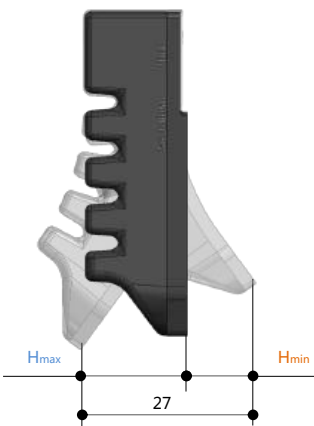


Finger Pattern		Features								
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.								
Normal Material		Dust-free Normal Material			Strong Material			Dust-free Strong Material		
F-C5T/LS1[P]		F-C5T/LS1[PAS]			F-C5T/LS1[H]			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.

Dimension Parameters

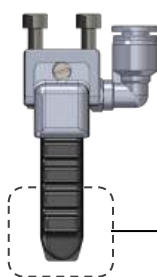
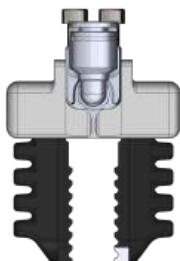
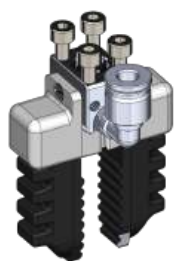


FM







## FM -C5V1 / 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-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

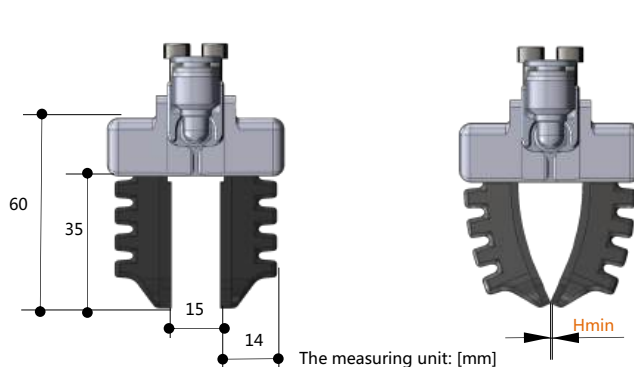
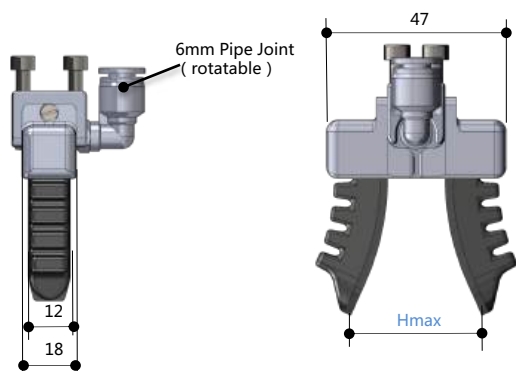


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



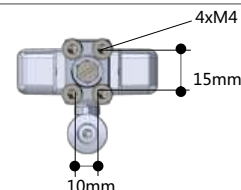
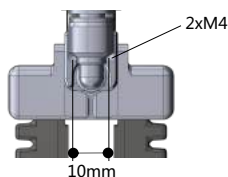
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



The measuring unit: [mm]

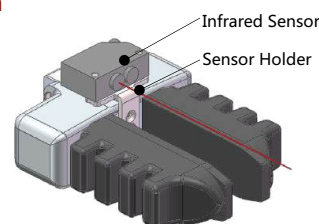
### Fixation



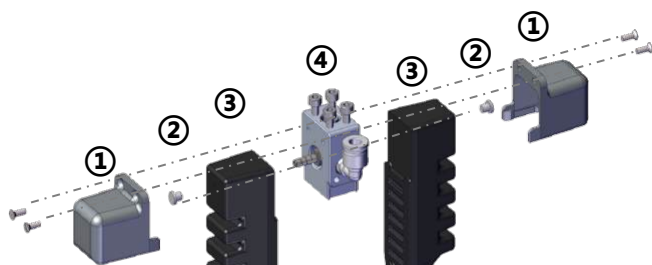
### Air Intake



### Sensor Installation



### Assembly



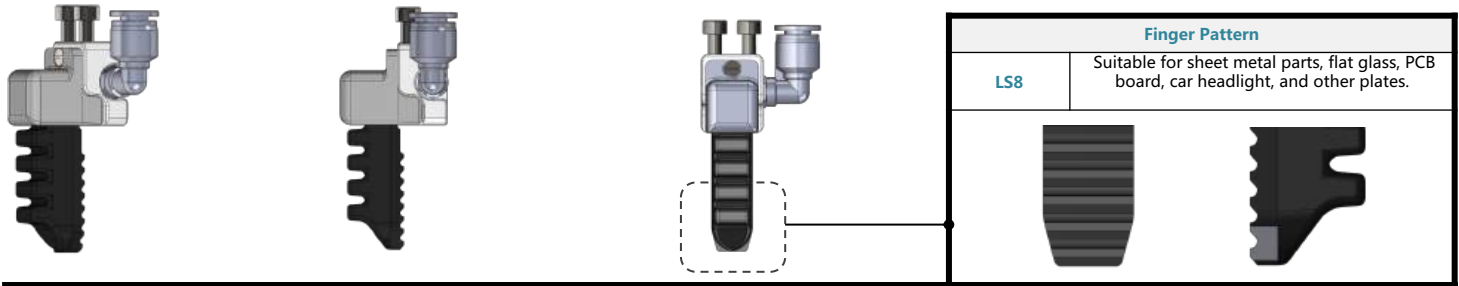
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C5V2 / LS8

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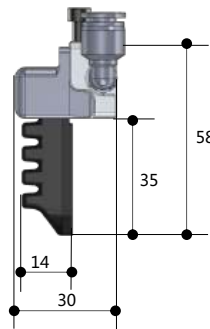
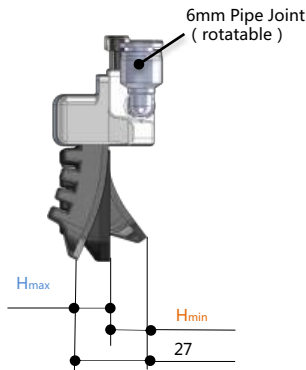
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C5V2/LS8[P]		FM-C5V2/LS8[PAS]			FM-C5V2/LS8[H]		FM-C5V2/LS8[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



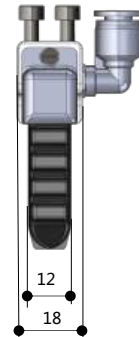
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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



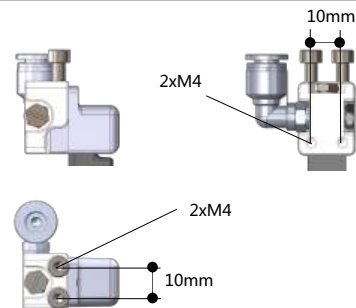
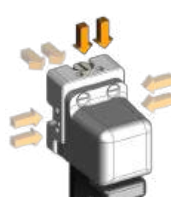
The measuring unit: [mm]



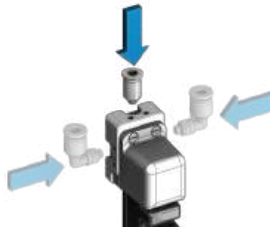
### Pose Adjustment



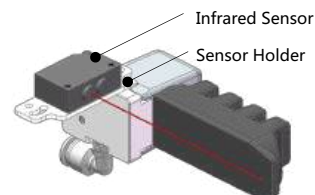
### Fixation



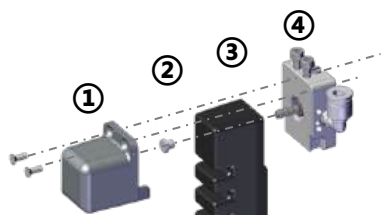
### Air Intake



### Sensor Installation



### Assembly



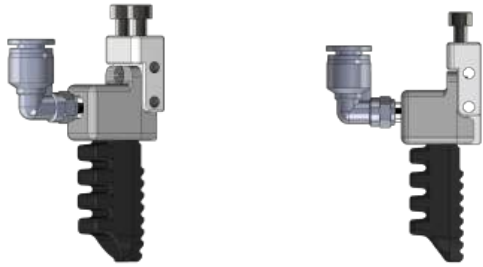
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C5V3 / 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-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

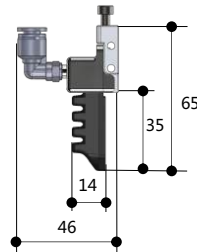
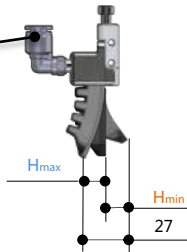


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



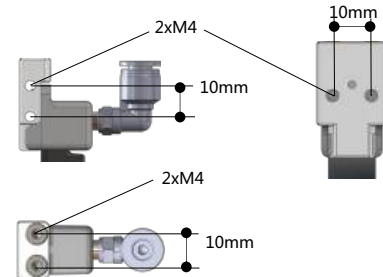
The measuring unit: [mm]



### Pose Adjustment



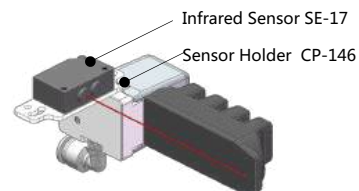
### Fixation



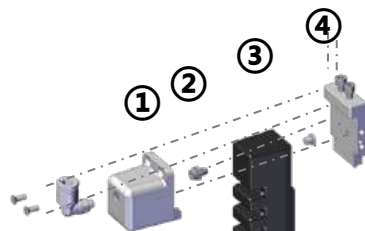
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

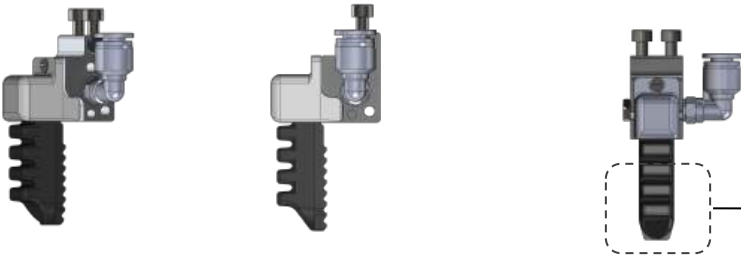
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block








## FM -C5V4 / 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-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		

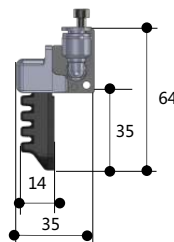
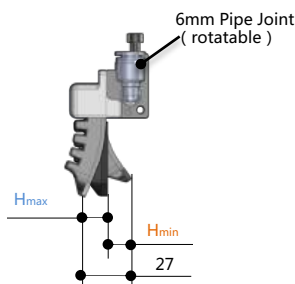


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

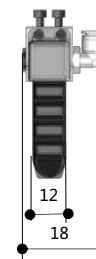


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

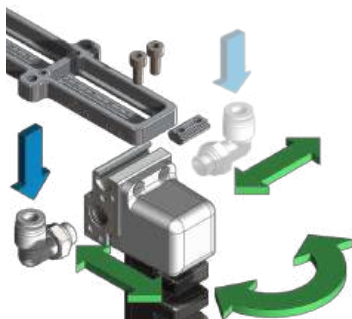
FM



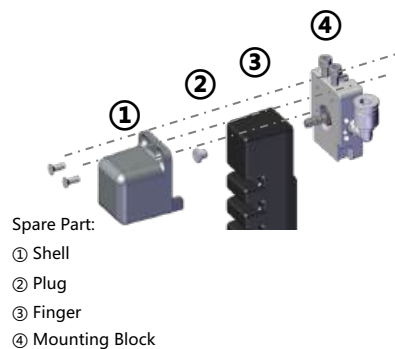
The measuring unit: [mm]



### Air Intake & Pose Adjustment



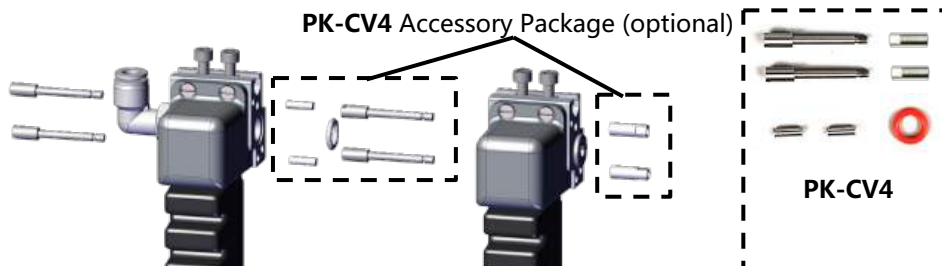
### Assembly



### 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.





## FM -C5V5 / 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-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		

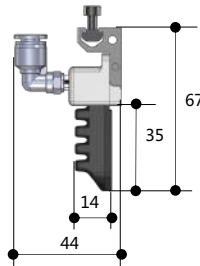
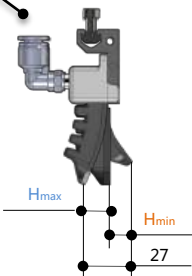


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

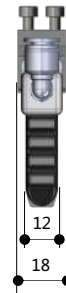


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

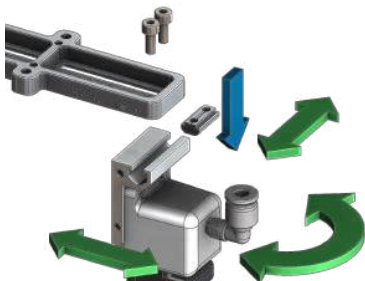
6mm Pipe Joint  
( rotatable )



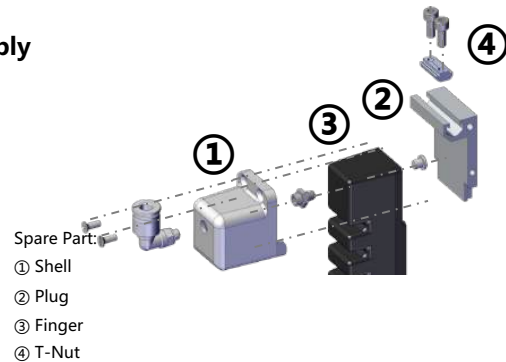
The measuring unit: [mm]



### Air Intake & Pose Adjustment



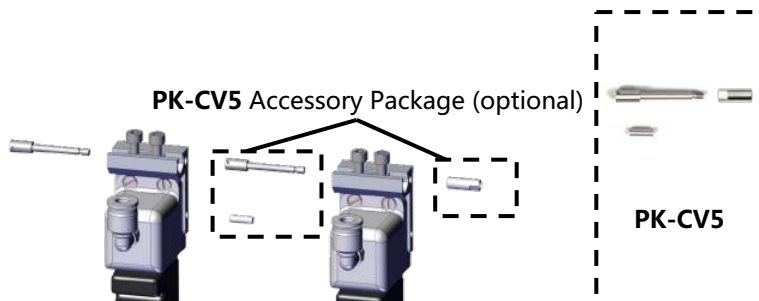
### Assembly

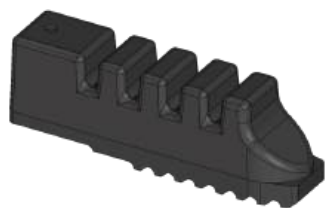


### Series combination:

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.





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	



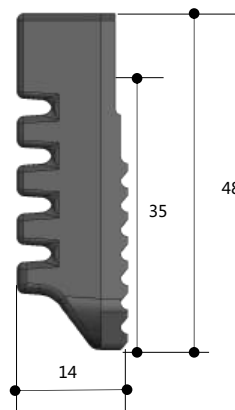
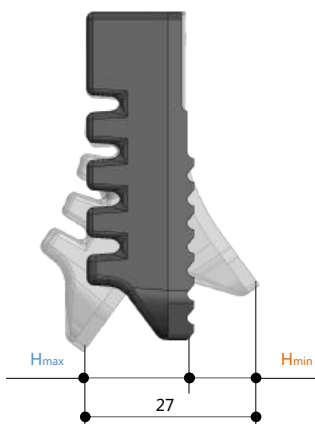
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

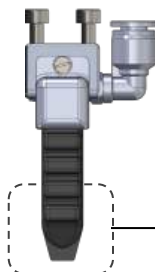
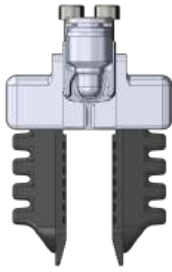
### Dimension Parameters









## FM -C5V1 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

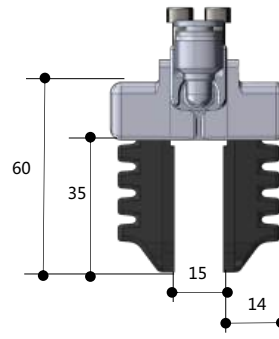
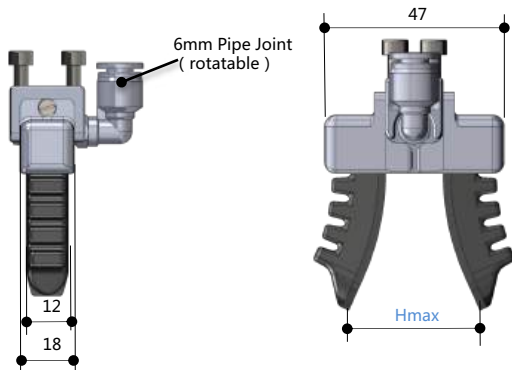
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C5V1/FS3[P]		FM-C5V1/FS3[PAS]			FM-C5V1/FS3[H]		FM-C5V1/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.



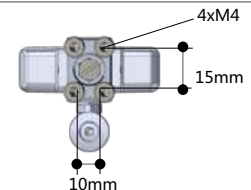
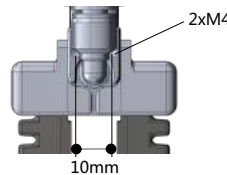
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

FM

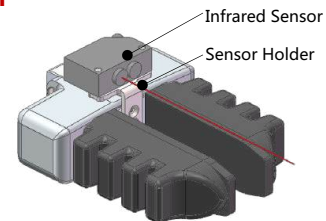
### Fixation



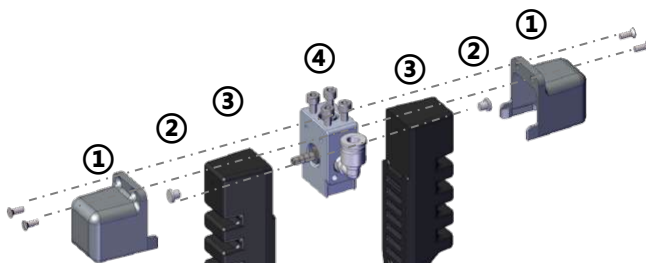
### Air Intake



### Sensor Installation



### Assembly



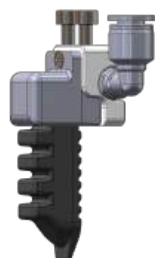
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C5V2 / 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-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

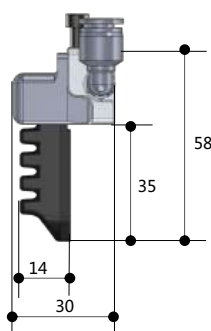
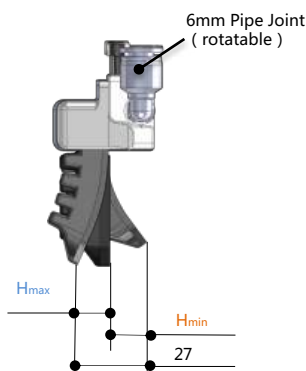


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

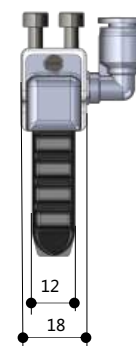


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



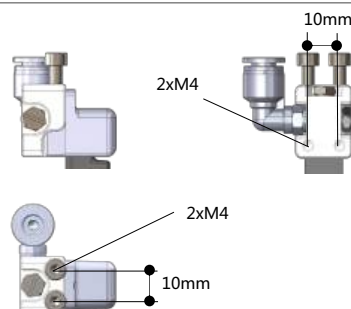
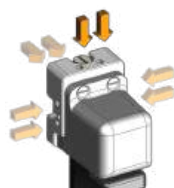
The measuring unit: [mm]



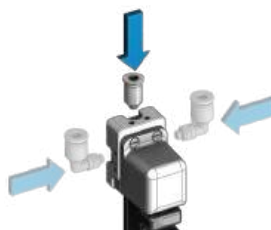
### Pose Adjustment



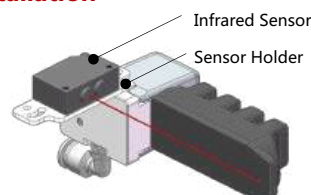
### Fixation



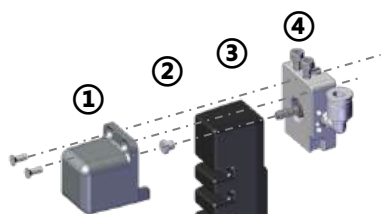
### Air Intake



### Sensor Installation



### Assembly



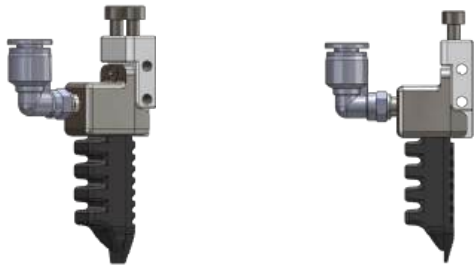
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -C5V3 / 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-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

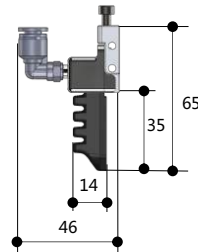
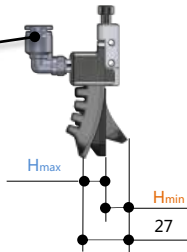


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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 )



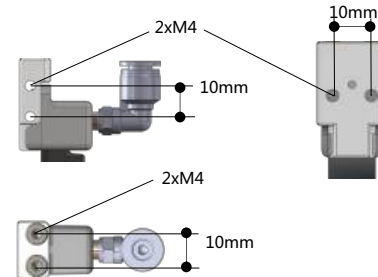
The measuring unit: [mm]



### Pose Adjustment



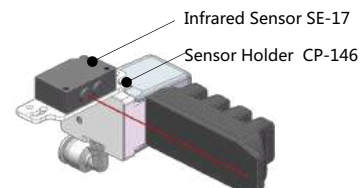
### Fixation



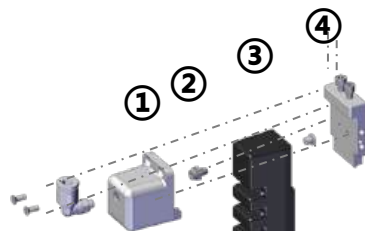
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

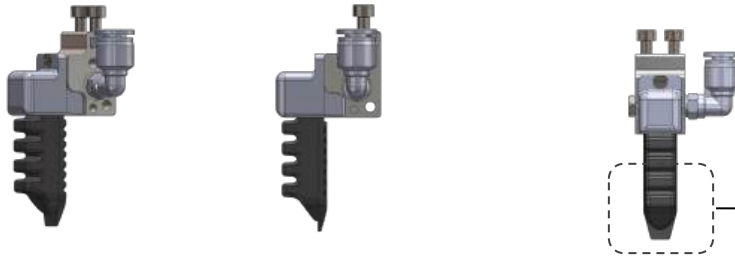
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block








## FM -C5V4 / FS3

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Finger Pattern	
FS3	Suitable for soft fabric products.

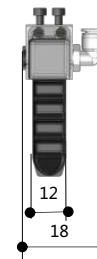
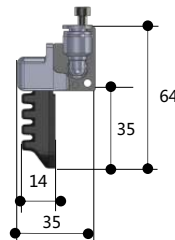
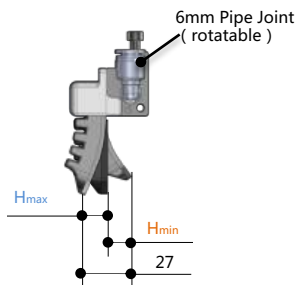
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C5V4/FS3[P]		FM-C5V4/FS3[PAS]			FM-C5V4/FS3[H]		FM-C5V4/FS3[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

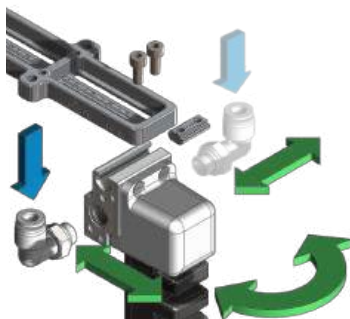


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

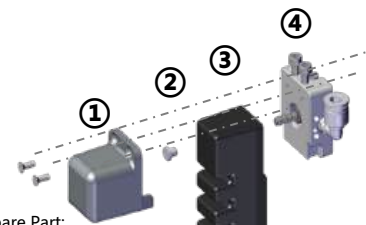


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



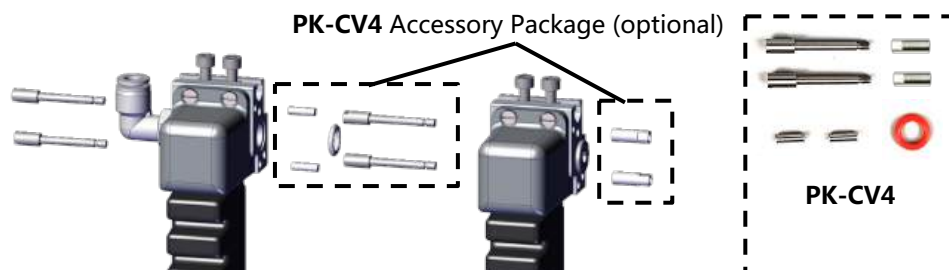
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

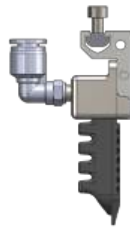
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## FM -C5V5 / 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-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		

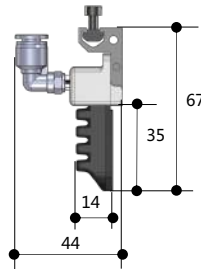
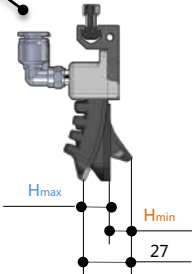


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

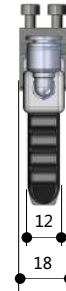


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

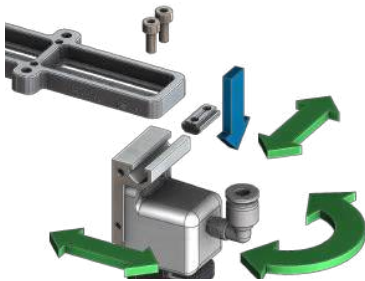
6mm Pipe Joint  
( rotatable )



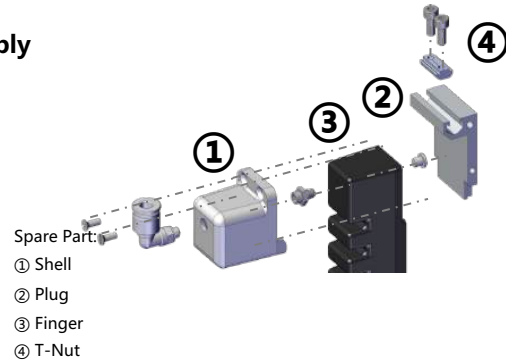
The measuring unit: [mm]



### Air Intake & Pose Adjustment



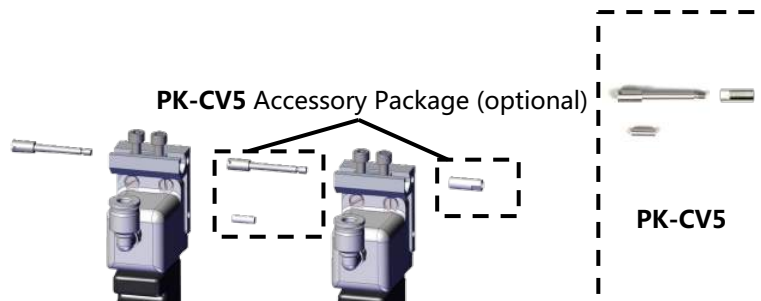
### Assembly



### 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.

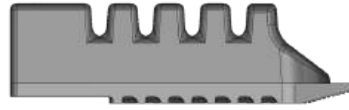
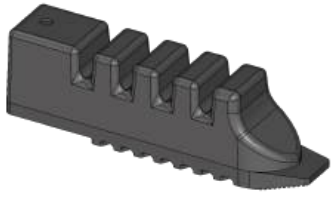
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## F -C5T / FS3

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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	



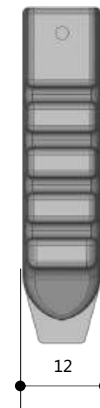
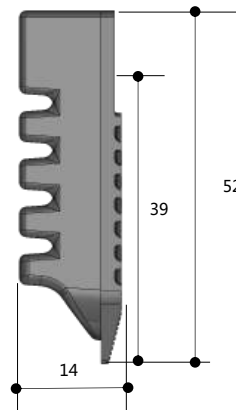
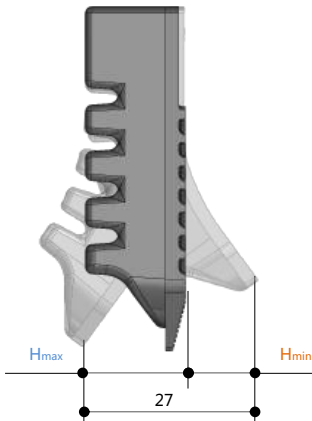
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

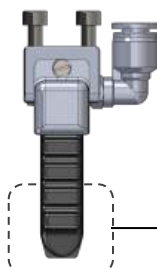
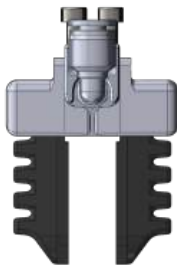
### Dimension Parameters










## FM -C5V1 / LF1

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

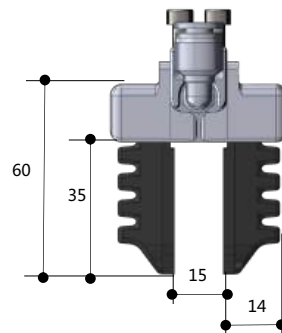
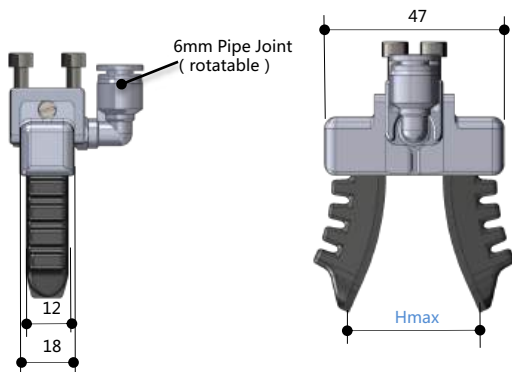
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-C5V1/LF1[P]			FM-C5V1/LF1[PAS]			FM-C5V1/LF1[H]			FM-C5V1/LF1[HAS]		
Finger color: Black					Finger color: Grey						
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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		



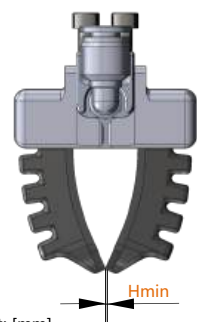
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



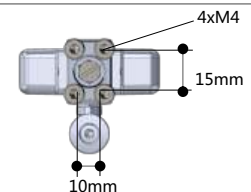
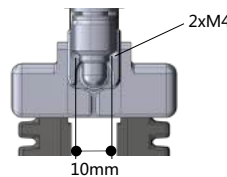
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]



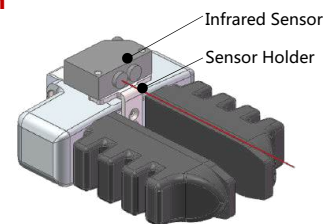
### Fixation



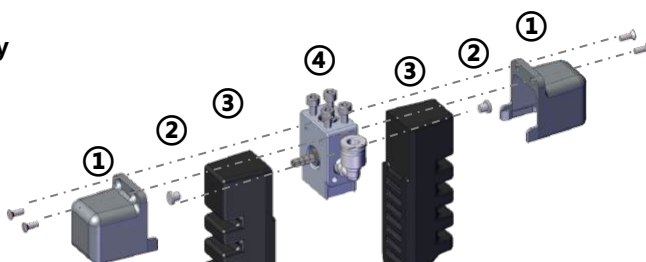
### Air Intake



### Sensor Installation



### Assembly



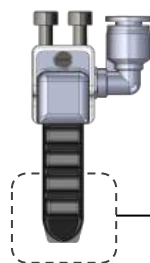
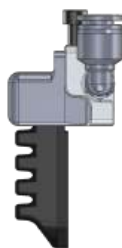
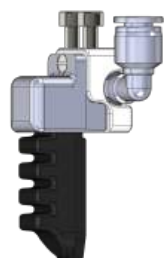
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C5V2 / LF1

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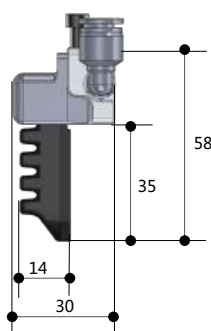
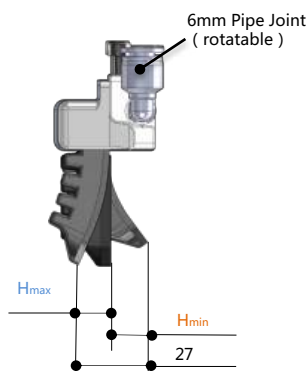
Finger Pattern	
LF1	Suitable for smooth dry workpieces and soft food.

Normal Material		Dust-free Normal Material		Strong Material		Dust-free Strong Material			
FM-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

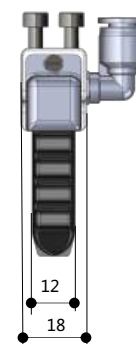
⚠ Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

The Recommended Load is only a basic suggestion. The real working load of the gripper is related 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



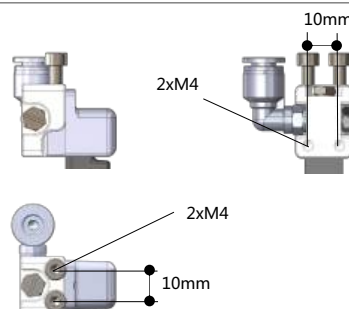
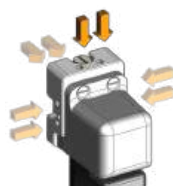
The measuring unit: [mm]



### Pose Adjustment



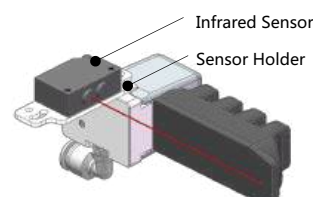
### Fixation



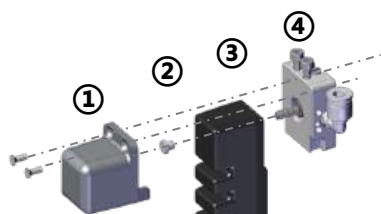
### Air Intake



### Sensor Installation



### Assembly



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







## FM -C5V3 / 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-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

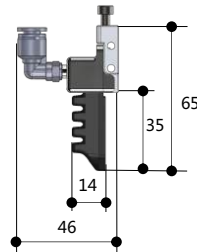
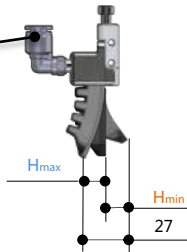


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



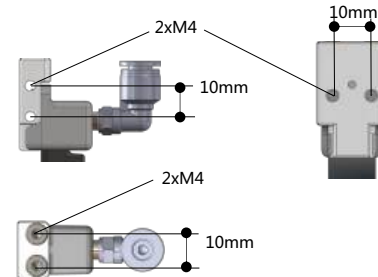
The measuring unit: [mm]



### Pose Adjustment



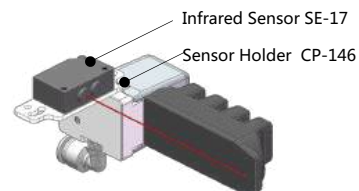
### Fixation



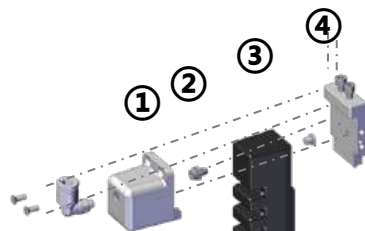
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

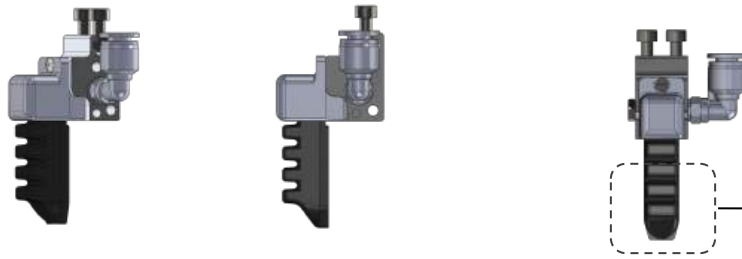
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C5V4 / LF1

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

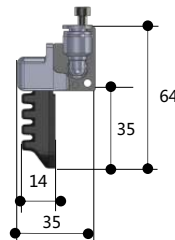
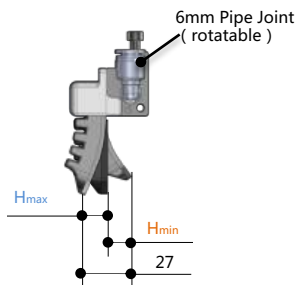
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-C5V4/LS1[P]			FM-C5V4/LS1[PAS]			FM-C5V4/LS1[H]			FM-C5V4/LS1[HAS]		
Finger color: Black						Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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	



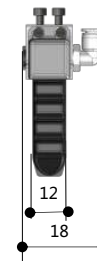
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



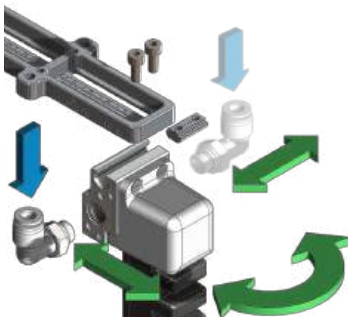
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



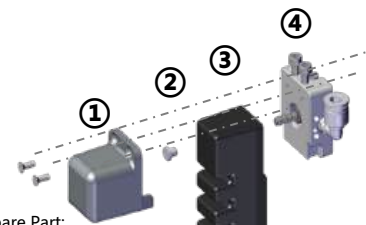
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



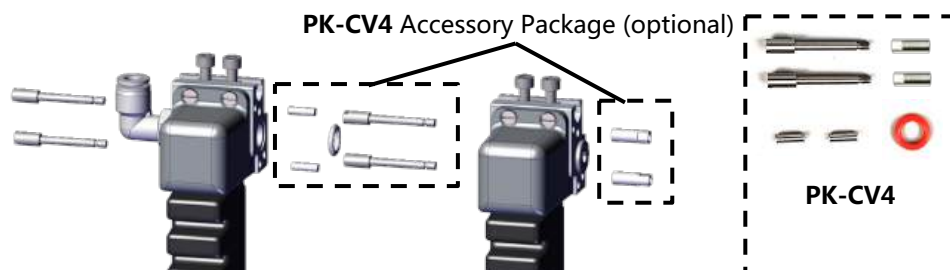
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.





## FM -C5V5 / 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-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

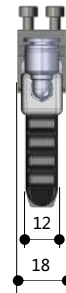
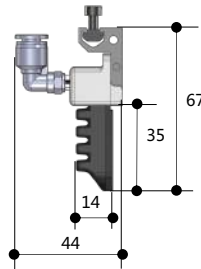
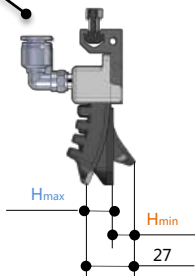


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

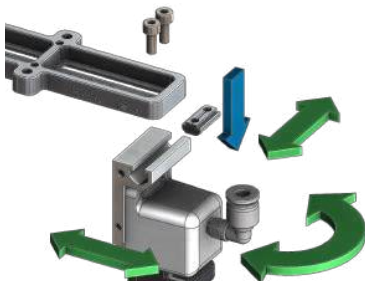
6mm Pipe Joint  
( rotatable )



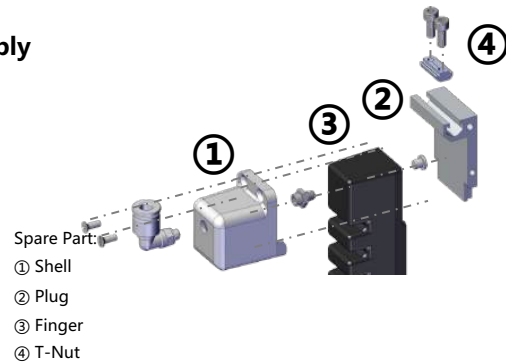
The measuring unit: [mm]

FM

### Air Intake & Pose Adjustment



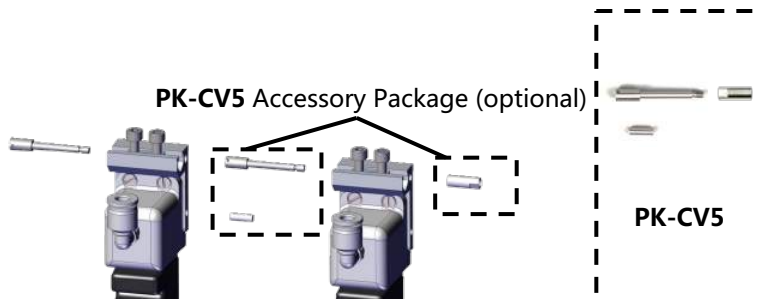
### Assembly



### 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.

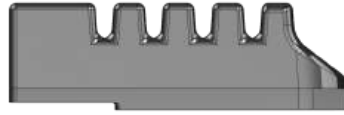
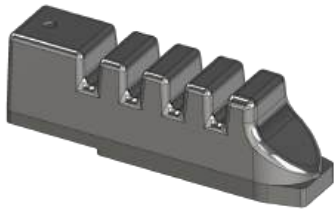
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## F -C5T / LF1

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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	



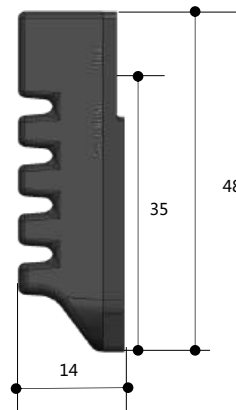
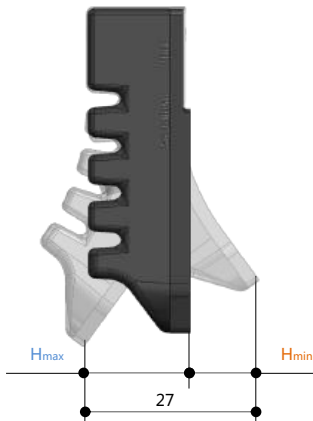
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

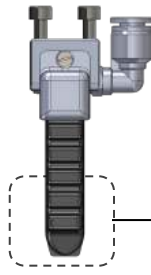
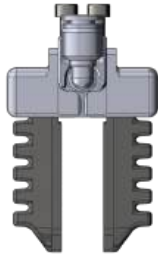
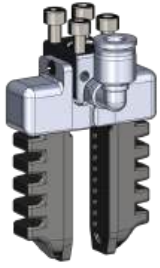
## Dimension Parameters









## FM -C6V1 / LS1

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

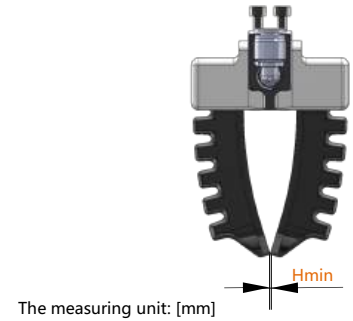
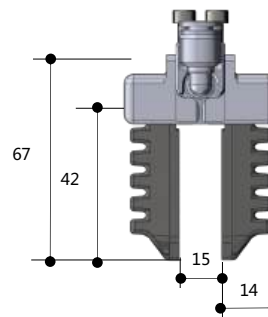
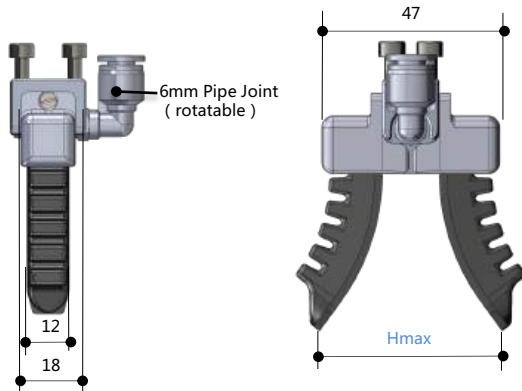
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C6V1/LS1[P]		FM-C6V1/LS1[PAS]			FM-C6V1/LS1[H]		FM-C6V1/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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	 142	102	0	52	 220	 154	102



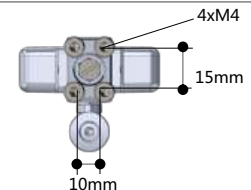
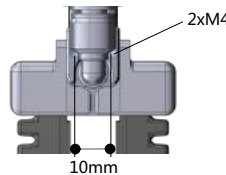
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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



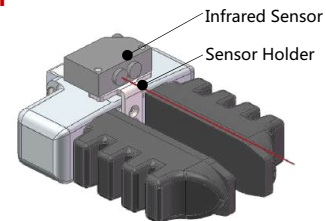
### Fixation



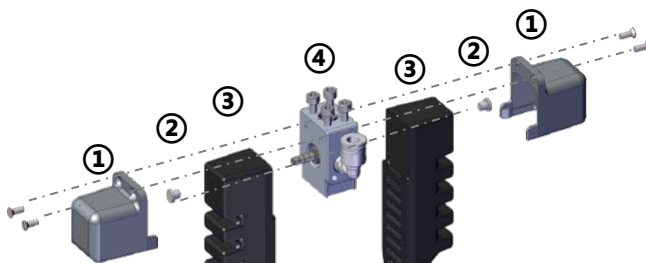
### Air Intake



### Sensor Installation



### Assembly



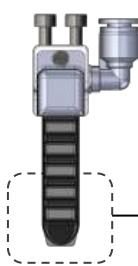
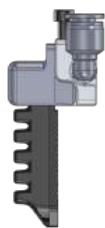
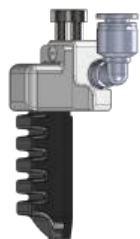
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -C6V2 / LS1

## Download 3D-CAD-models for free



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

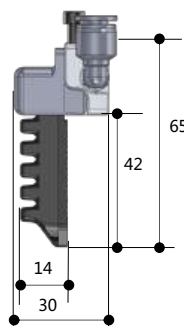
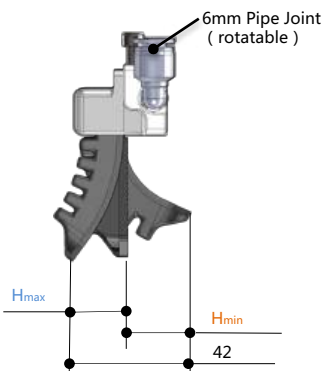
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C6V2/LS1[P]		FM-C6V2/LS1[PAS]			FM-C6V2/LS1[H]		FM-C6V2/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



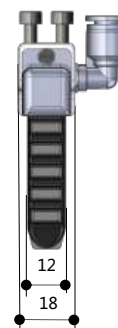
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



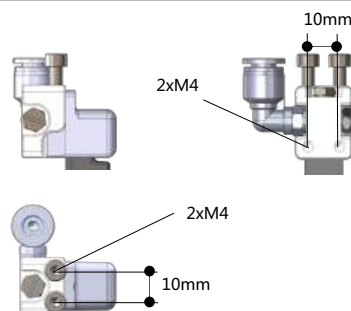
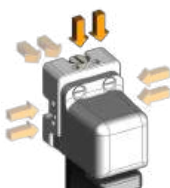
The measuring unit: [mm]



### Pose Adjustment



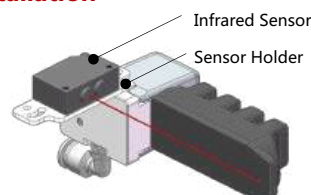
### Fixation



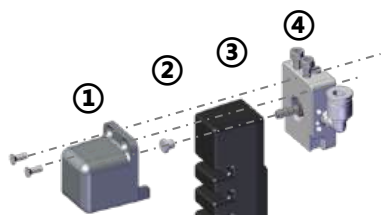
### Air Intake



### Sensor Installation



### Assembly



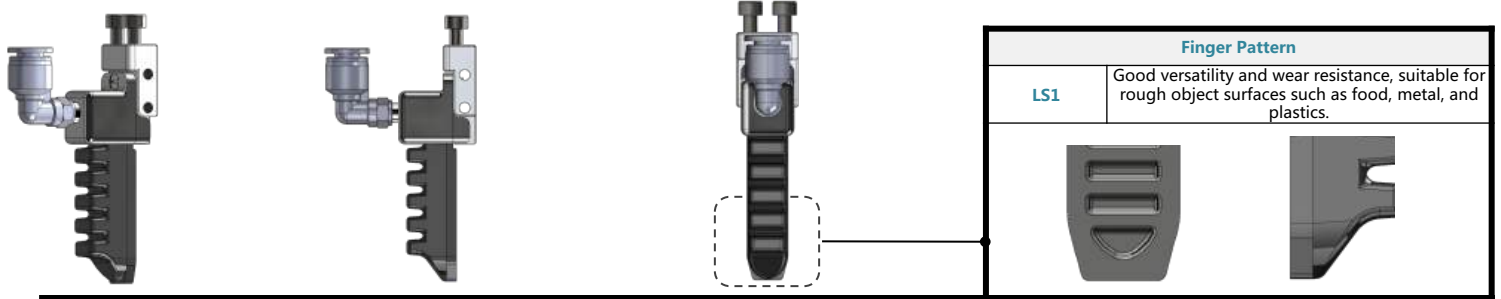
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## 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

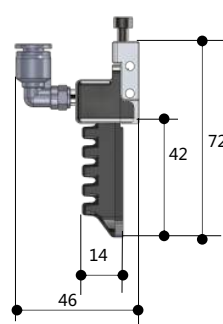
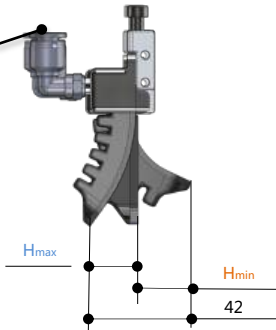


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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 )



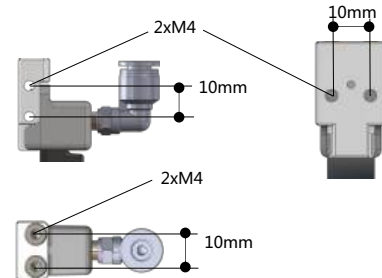
The measuring unit: [mm]



### Pose Adjustment



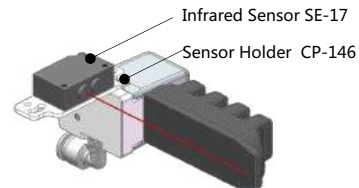
### Fixation



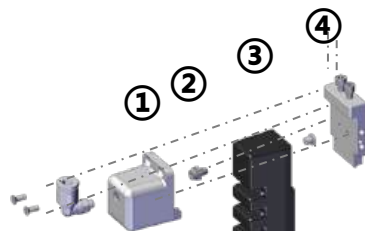
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

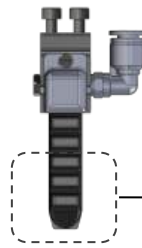
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## 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.
	

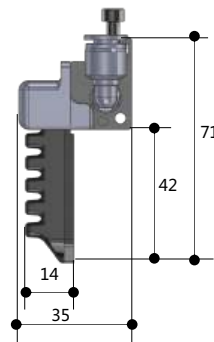
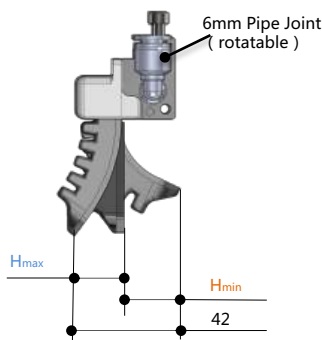
Normal Material			Dust-free Normal Material			Strong Material			Dust-free Strong Material		
FM-C6V4/LS1[P]			FM-C6V4/LS1[PAS]			FM-C6V4/LS1[H]			FM-C6V4/LS1[HAS]		
Finger color: Black						Finger color: Grey					
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	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	



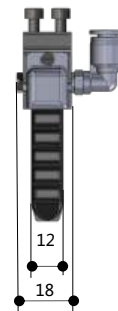
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



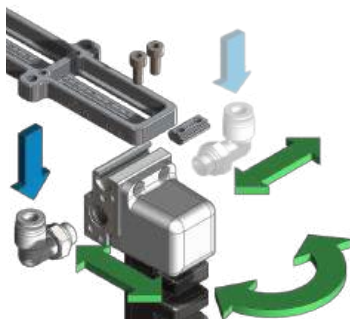
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



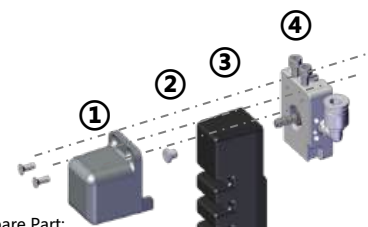
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



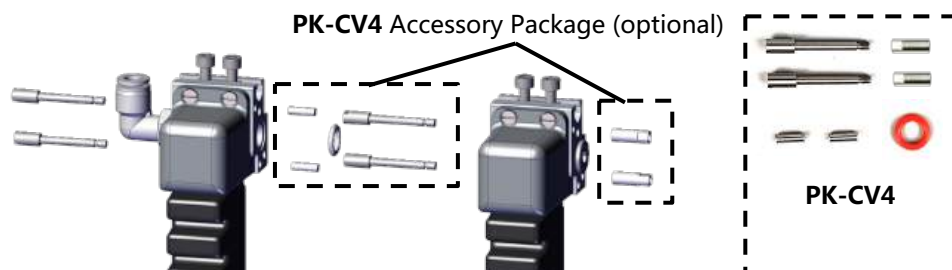
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

- Build multiple finger modules in series to increase the grip 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. This part kit is not included in the finger module and needs to be ordered separately.









## FM -C6V5 / 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-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

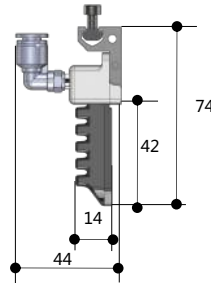
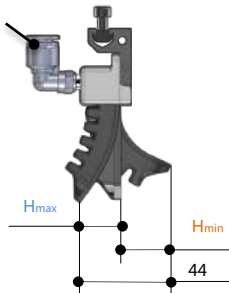


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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 )

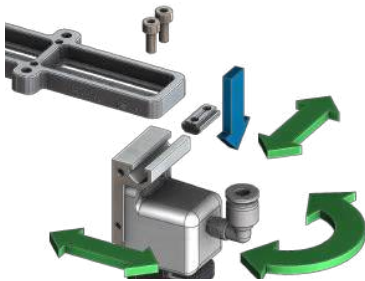


The measuring unit: [mm]

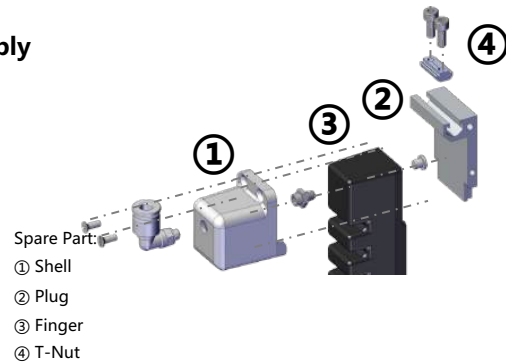


FM

### Air Intake & Pose Adjustment



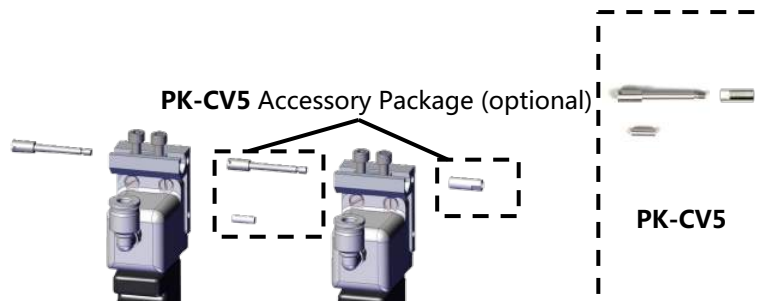
### Assembly



### 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.

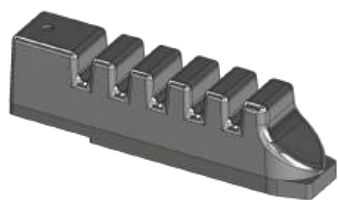
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## F -C6T / LS1

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Finger Pattern		Features							
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.							
Normal Material F-C6T/LS1[P]		Dust-free Normal Material F-C6T/LS1[PAS]			Strong Material F-C6T/LS1[H]			Dust-free Strong Material 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



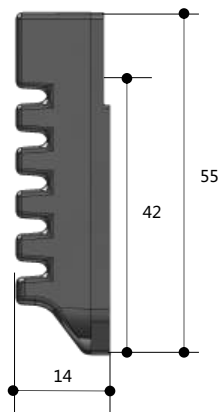
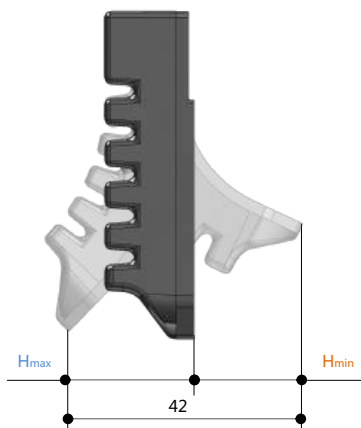
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

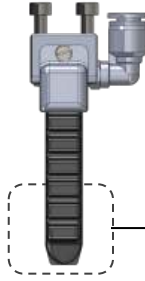
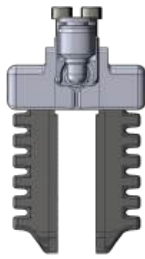
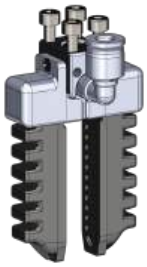
## Dimension Parameters











## FM -C7V1 / LS1

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

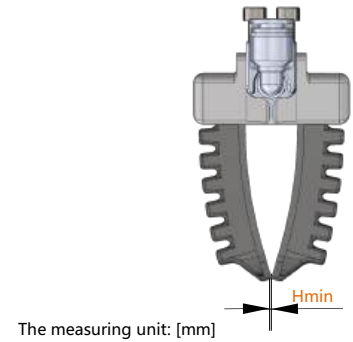
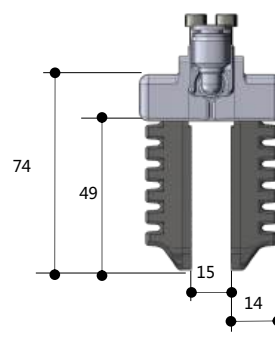
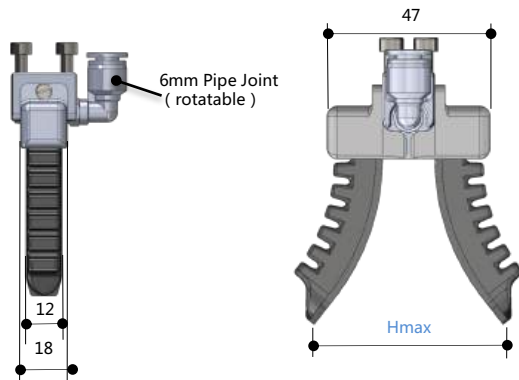
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C7V1/LS1[P]		FM-C7V1/LS1[PAS]			FM-C7V1/LS1[H]		FM-C7V1/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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	 140	110	0	60	 220	 156	110



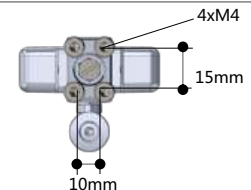
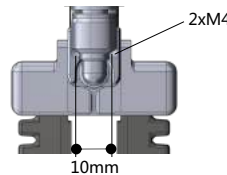
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



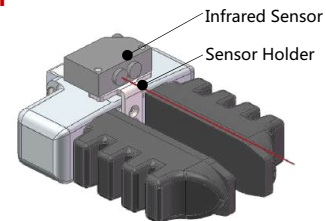
### Fixation



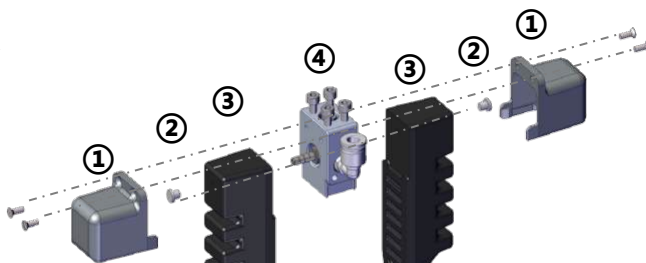
### Air Intake



### Sensor Installation



### Assembly



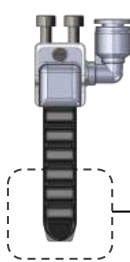
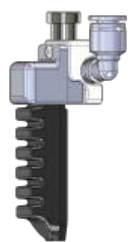
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C7V2 / 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-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

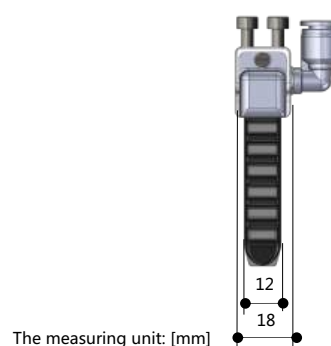
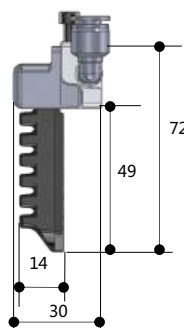
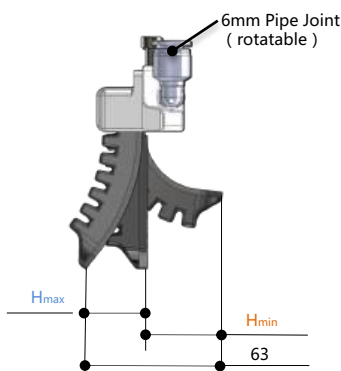


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

FM

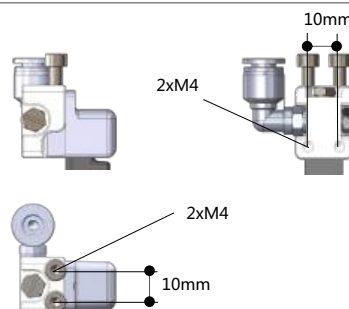
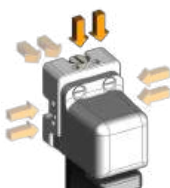


The measuring unit: [mm]

### Pose Adjustment



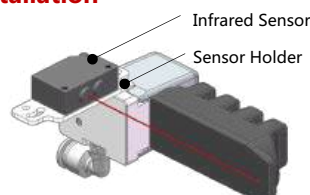
### Fixation



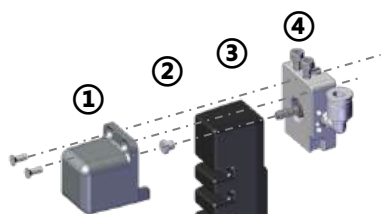
### Air Intake



### Sensor Installation



### Assembly



Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## 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

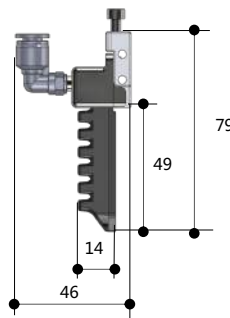
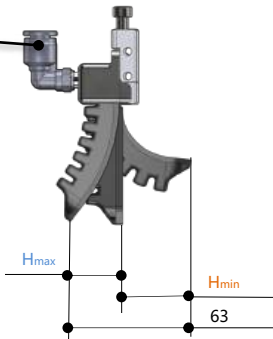


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

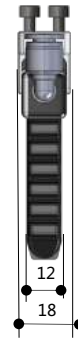


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )



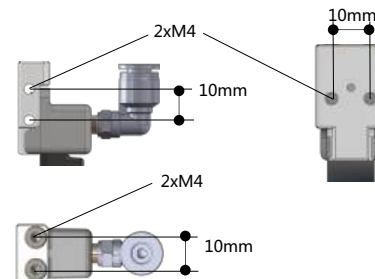
The measuring unit: [mm]



### Pose Adjustment



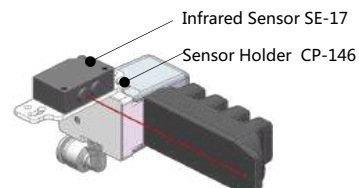
### Fixation



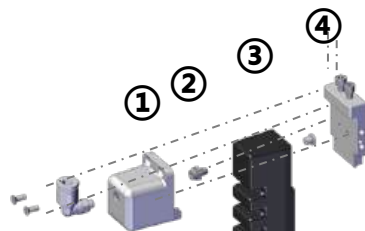
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

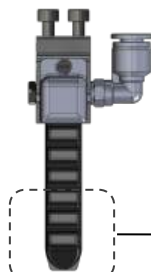
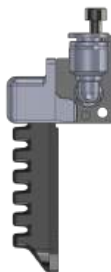
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block









## FM -C7V4 / LS1

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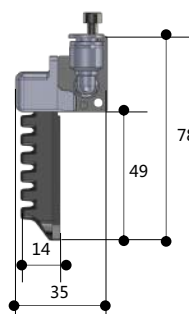
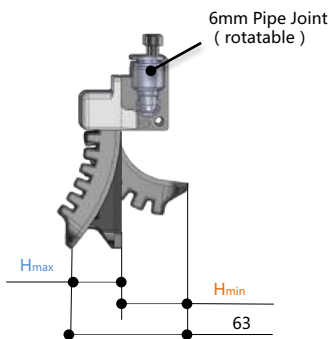
Finger Pattern	
LS1	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.

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.

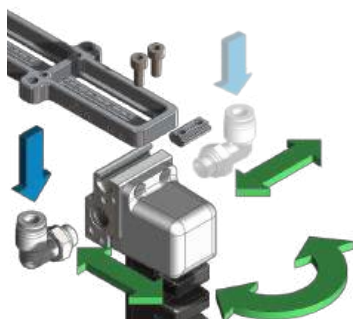
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

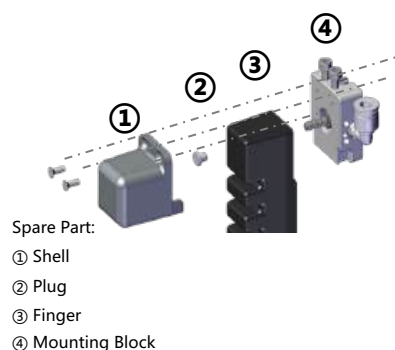


The measuring unit: [mm]

### Air Intake & Pose Adjustment



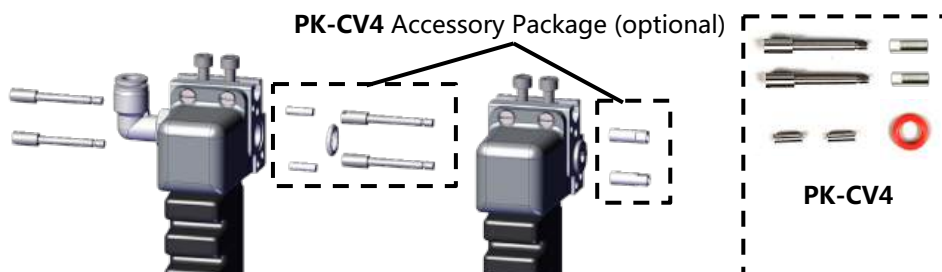
### Assembly



### 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.

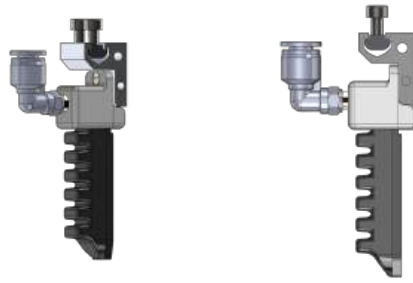
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









## 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

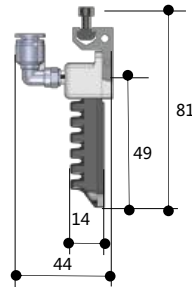
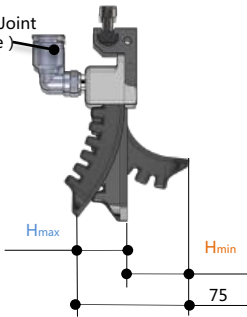


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

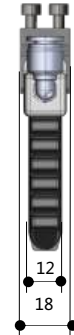


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

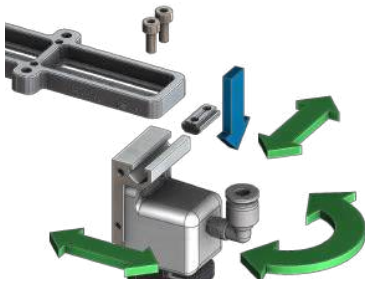
6mm Pipe Joint  
( rotatable )



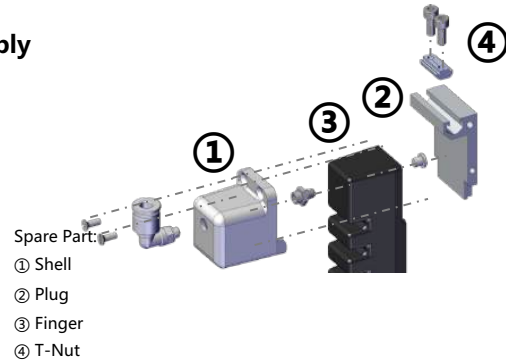
The measuring unit: [mm]



### Air Intake & Pose Adjustment



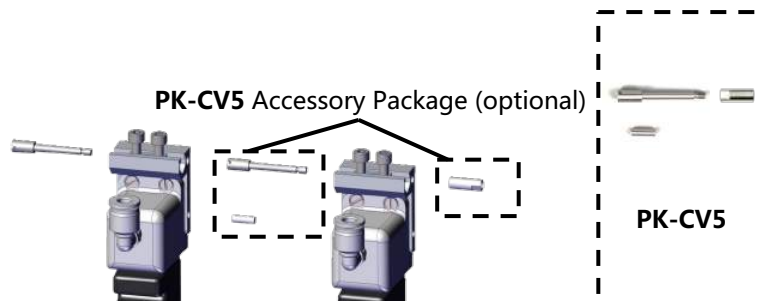
### Assembly



### 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.





## F -C7T / LS1

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Finger Pattern		Features							
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.							
Normal Material F-C7T/LS1[P]		Dust-free Normal Material F-C7T/LS1[PAS]			Strong Material F-C7T/LS1[H]			Dust-free Strong Material 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



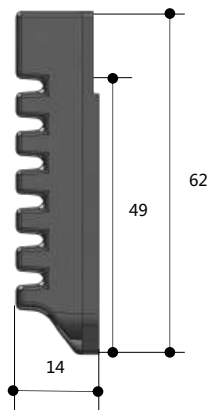
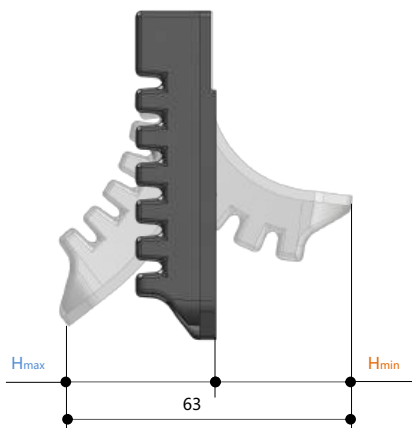
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

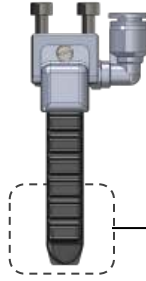
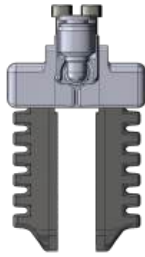
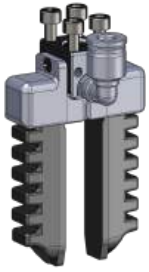
## Dimension Parameters







## FM -C7V1 / LF1

Download 3D-CAD-models for free



Finger Pattern	
LS1	Suitable for smooth dry workpieces and soft food.

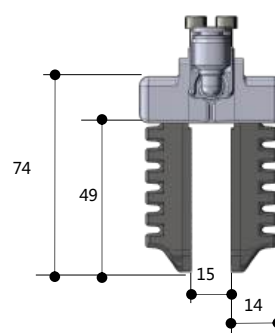
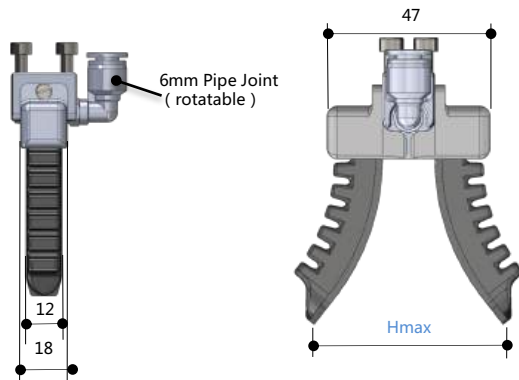
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C7V1/LF1[P]		FM-C7V1/LF1[PAS]			FM-C7V1/LF1[H]		FM-C7V1/LF1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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.

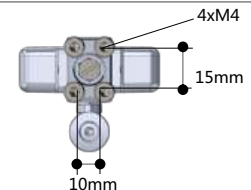
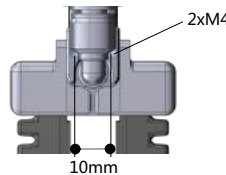


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.



The measuring unit: [mm]

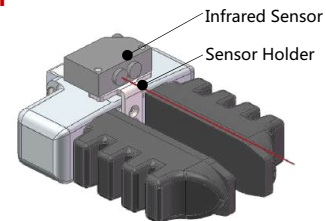
### Fixation



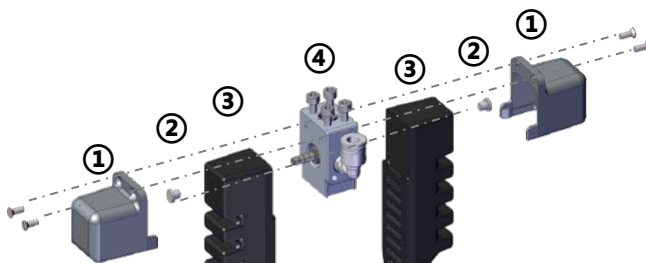
### Air Intake



### Sensor Installation



### Assembly



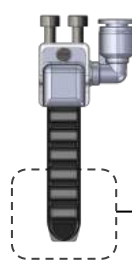
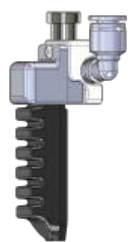
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C7V2 / 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-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

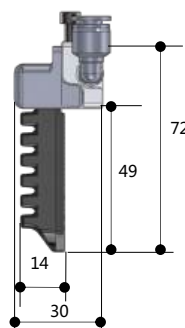
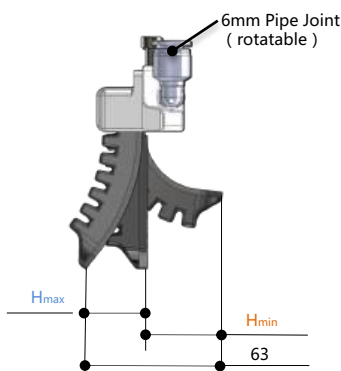


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

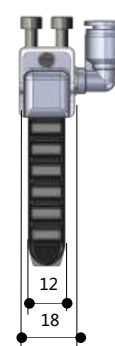


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM



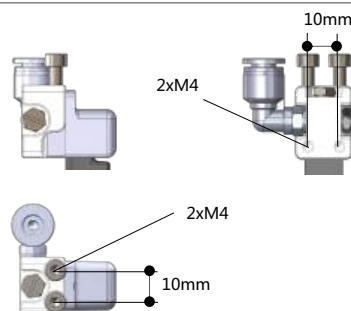
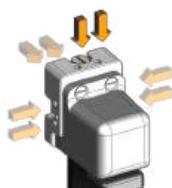
The measuring unit: [mm]



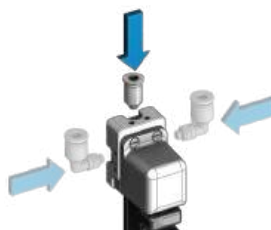
### Pose Adjustment



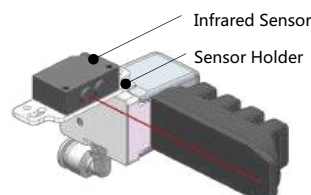
### Fixation



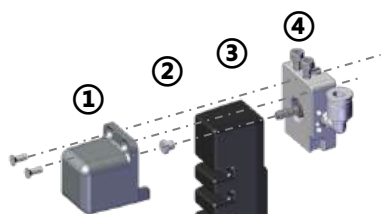
### Air Intake



### Sensor Installation



### Assembly



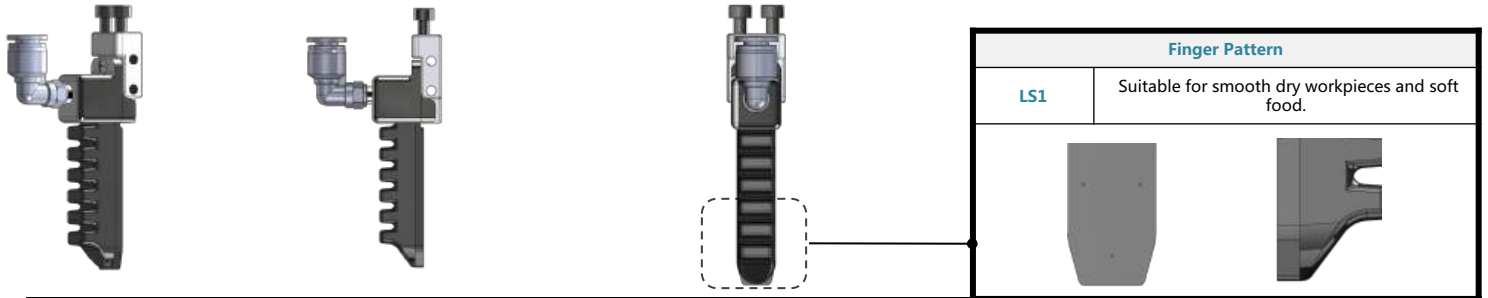
Spare Part:





- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## FM -C7V3 / LF1

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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]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe Pressure [kPa]	Recommended Load per Finger [g]	Weight [g]	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

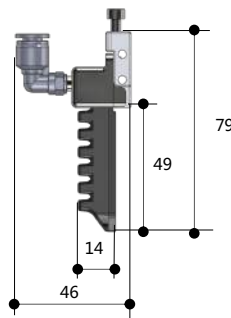
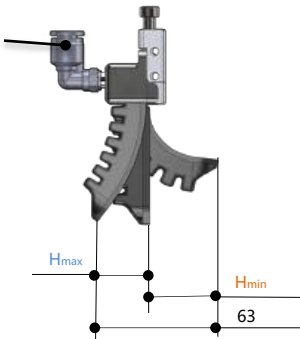


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

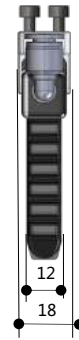


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )



The measuring unit: [mm]

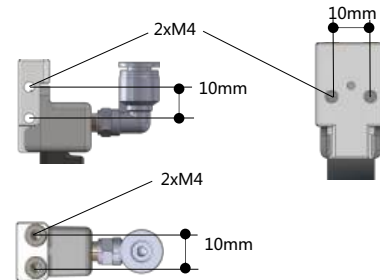
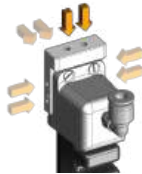


FM

### Pose Adjustment



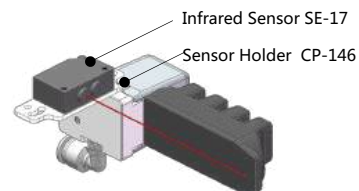
### Fixation



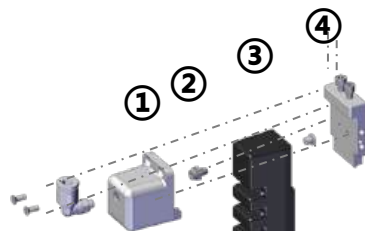
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

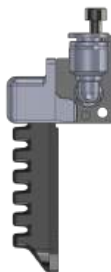
- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block











## 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

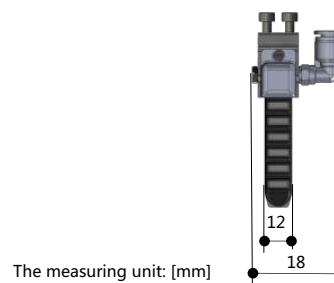
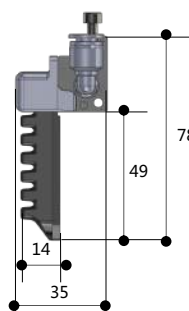
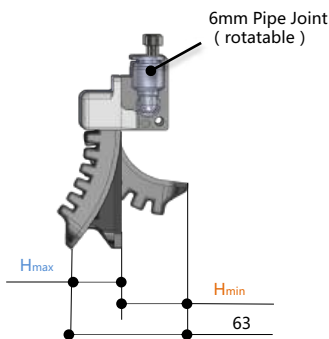


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



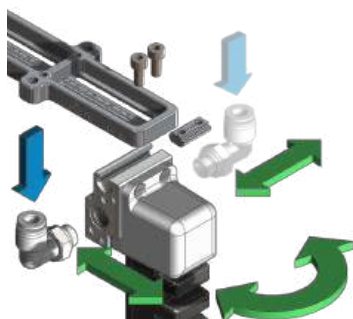
The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

FM

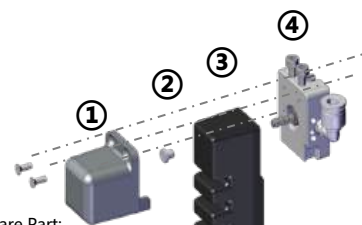


The measuring unit: [mm]

### Air Intake & Pose Adjustment



### Assembly



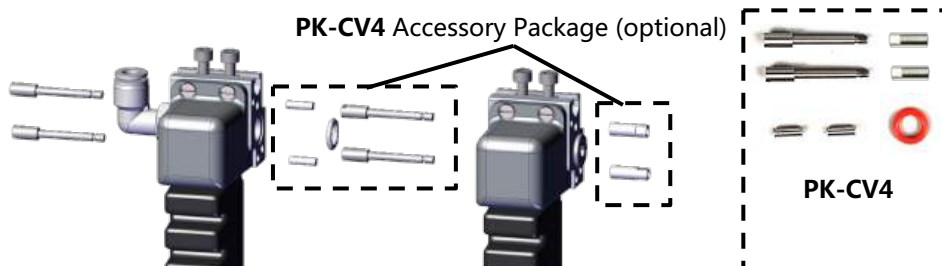
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

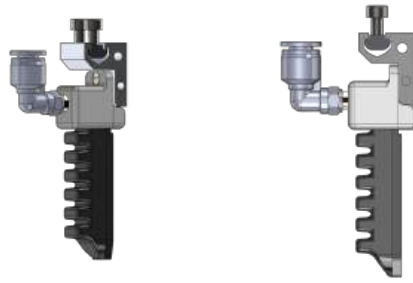
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.









## FM -C7V5 / 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-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

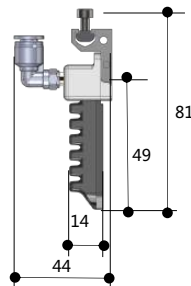
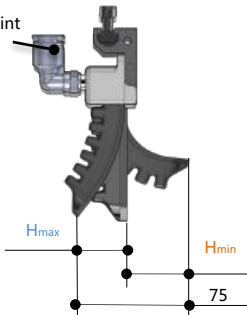


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

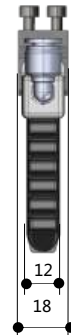


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

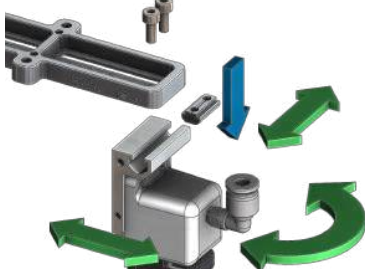
6mm Pipe Joint  
( rotatable )



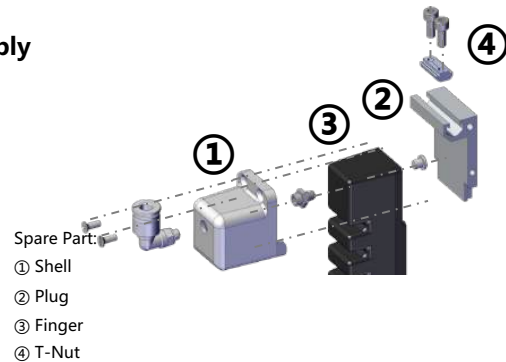
The measuring unit: [mm]



### Air Intake & Pose Adjustment



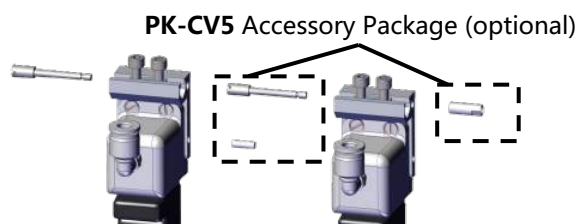
### Assembly



### 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.

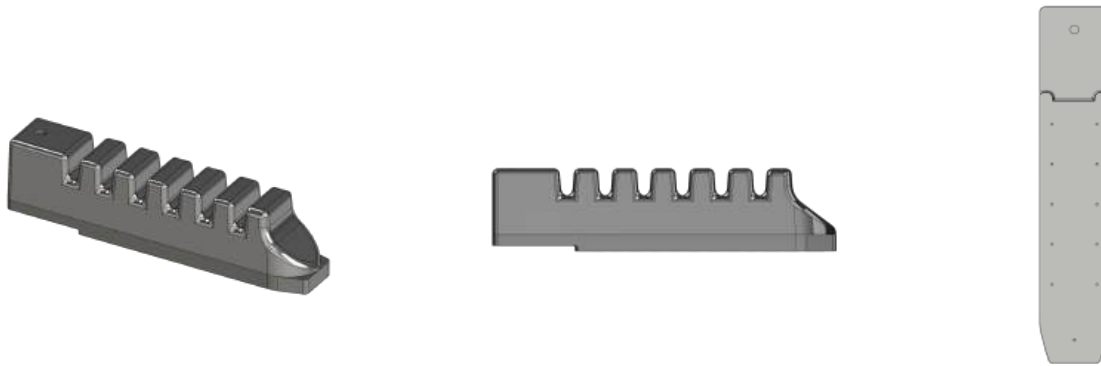
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## F -C7T / LF1

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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	📏 70	7	34	13	⚠️ 220	📏 78	7



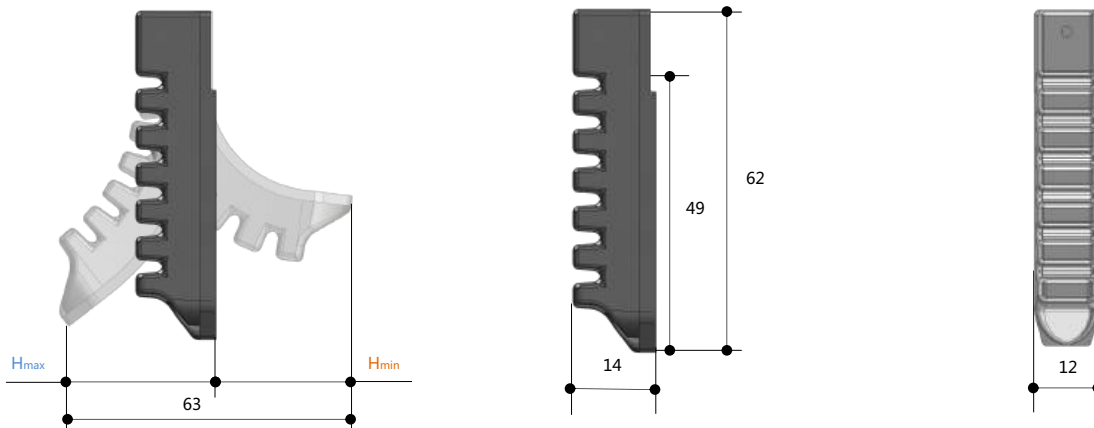
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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

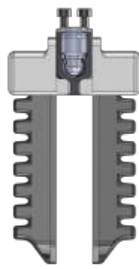
## Dimension Parameters











## FM -C8V1 / LS1

Download 3D-CAD-models for free



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

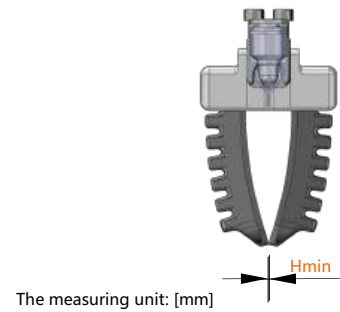
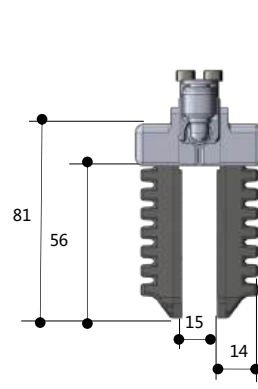
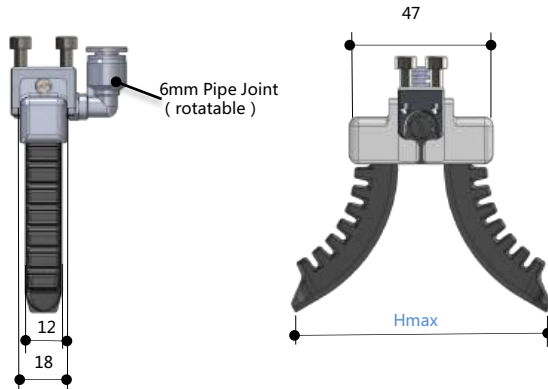
Normal Material		Dust-free Normal Material			Strong Material		Dust-free Strong Material		
FM-C8V1/LS1[P]		FM-C8V1/LS1[PAS]			FM-C8V1/LS1[H]		FM-C8V1/LS1[HAS]		
Finger color: Black					Finger color: Grey				
Positive Pressure Range ( P=100kPa ) Hmin[mm]	Negative Pressure Range ( P=-80kPa ) Hmax[mm]	Safe 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



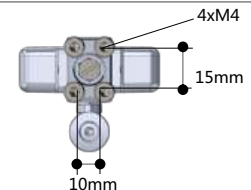
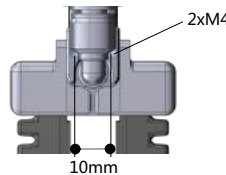
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.



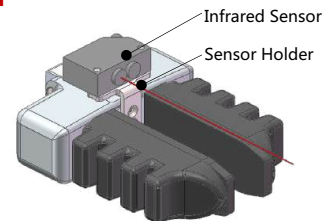
### Fixation



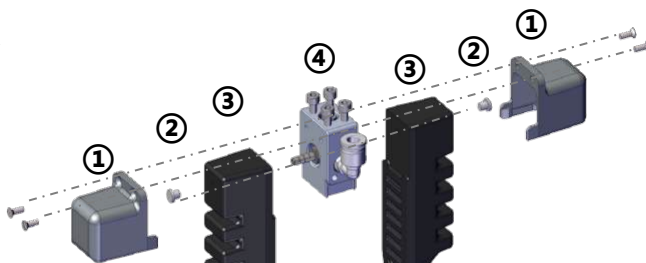
### Air Intake



### Sensor Installation



### Assembly



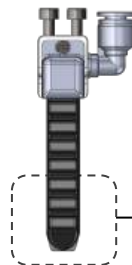
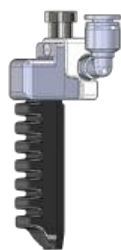
Spare Part:



- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C8V2 / LS1

Download 3D-CAD-models for free



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

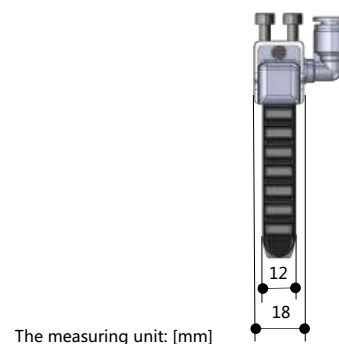
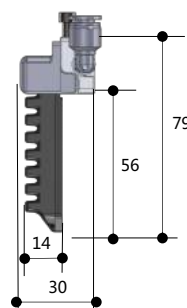
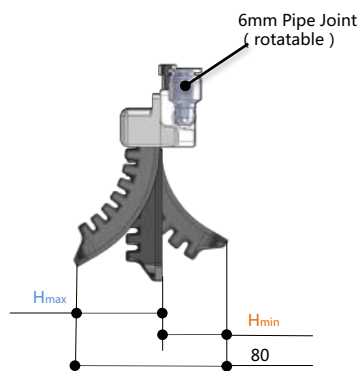


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

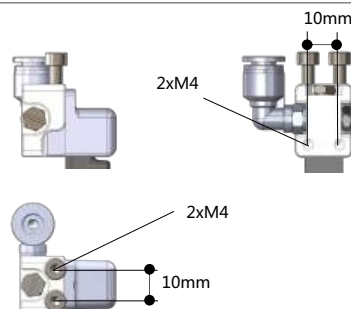
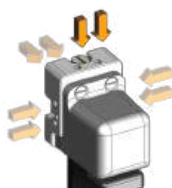
FM



### Pose Adjustment



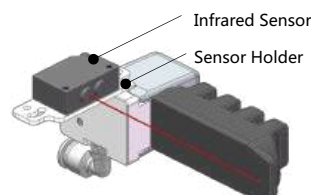
### Fixation



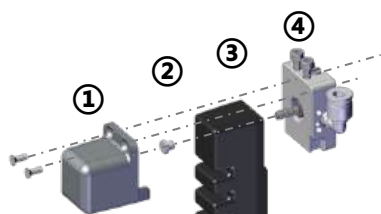
### Air Intake



### Sensor Installation



### Assembly



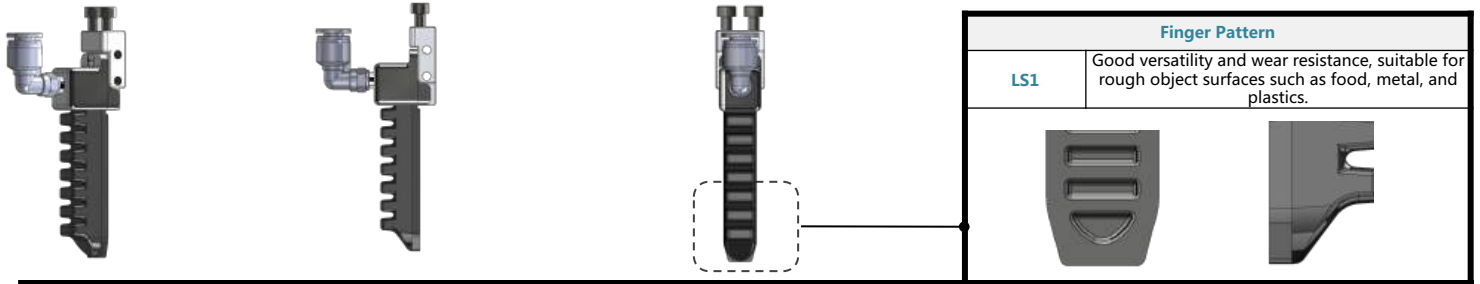
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block







## FM -C8V3 / LS1

Download 3D-CAD-models for free



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

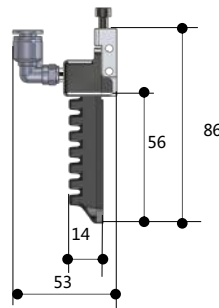
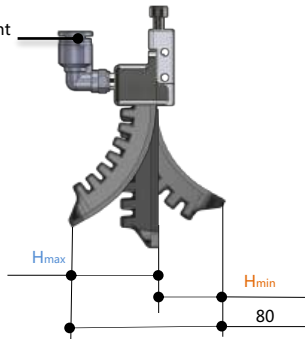


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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.

6mm Pipe Joint  
( rotatable )



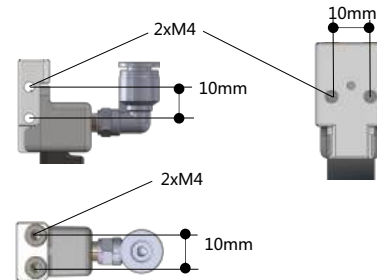
The measuring unit: [mm]



### Pose Adjustment



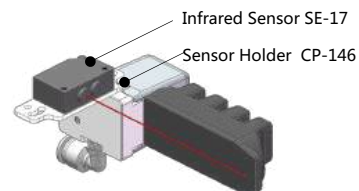
### Fixation



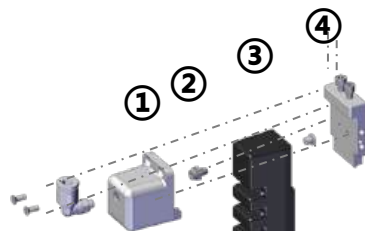
### Air Intake



### Sensor Installation



### Assembly



Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block





## FM -C8V4 / LS1

Download 3D-CAD-models for free



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		

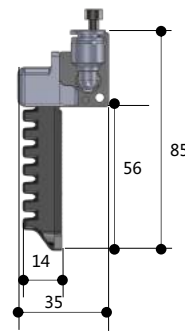
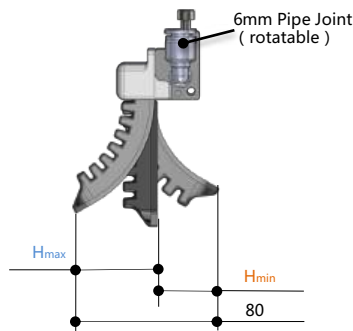


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

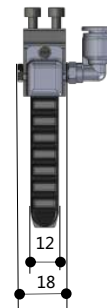


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

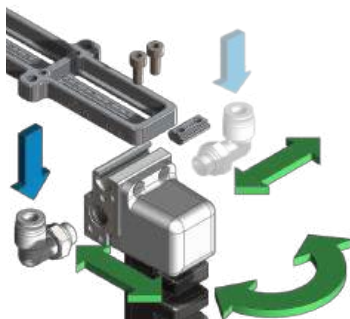
FM



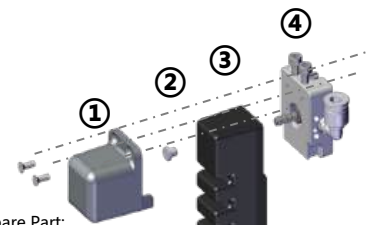
The measuring unit: [mm]



### Air Intake & Pose Adjustment



### Assembly



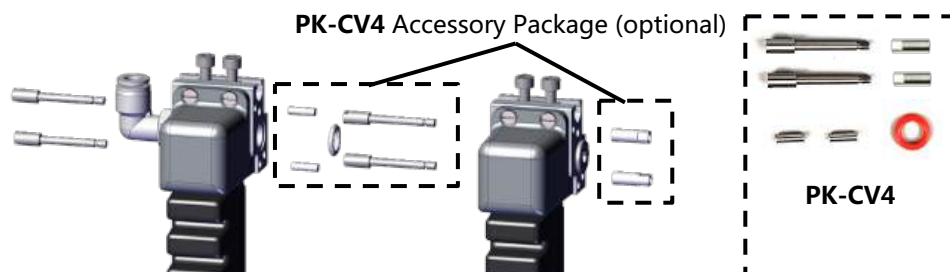
Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block

### Series combination:

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

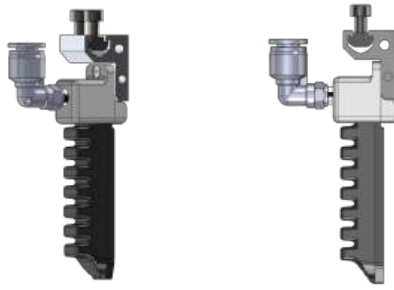
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## FM -C8V5 / LS1

Download 3D-CAD-models for free



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

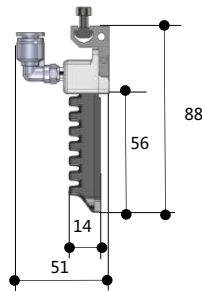
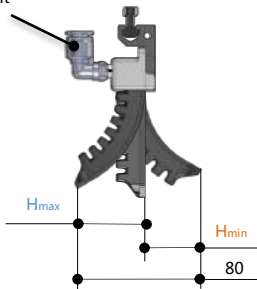


Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.

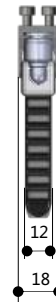


The Recommended Load is only a basic suggestion. The real working load of the gripper is related to the shape of the object, friction coefficient, finger pattern, machine speed, etc. For stable gripping, please consult our colleague to send your samples.

6mm Pipe Joint  
( rotatable )

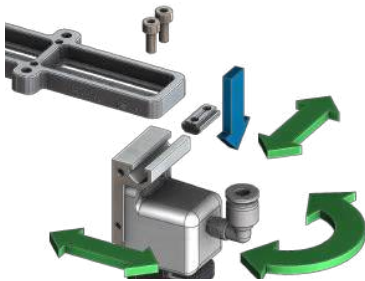


The measuring unit: [mm]

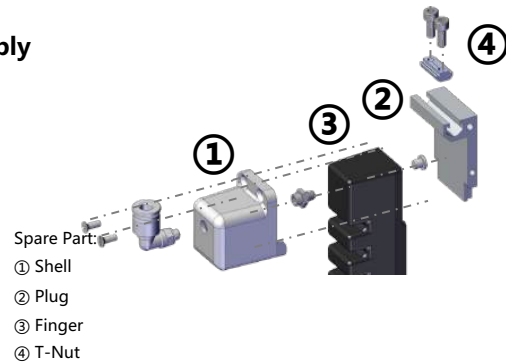


FM

### Air Intake & Pose Adjustment



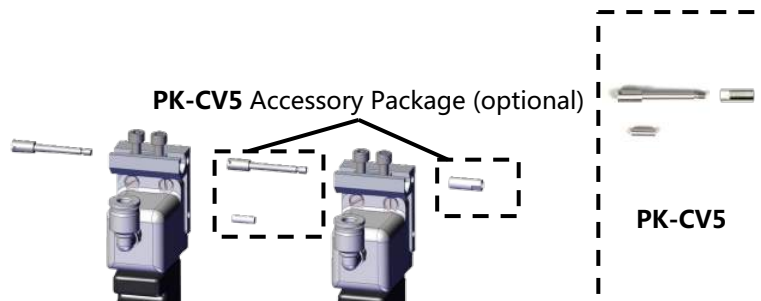
### Assembly



### 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.

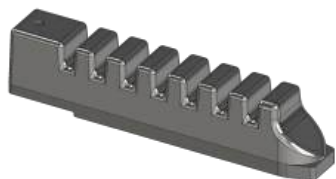
\*Splicing finger modules requires a parts kit [PK] containing the bolts, nuts, sealings, and pins. This part kit is not included in the finger module and needs to be ordered separately.





## F -C8T / LS1

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Finger Pattern		Features							
LS1	Standard form	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.							
Normal Material F-C8T/LS1[P]		Dust-free Normal Material F-C8T/LS1[PAS]			Strong Material F-C8T/LS1[H]			Dust-free Strong Material 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



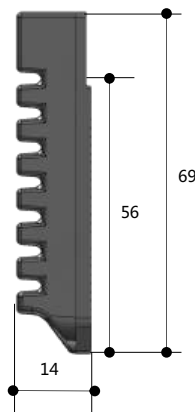
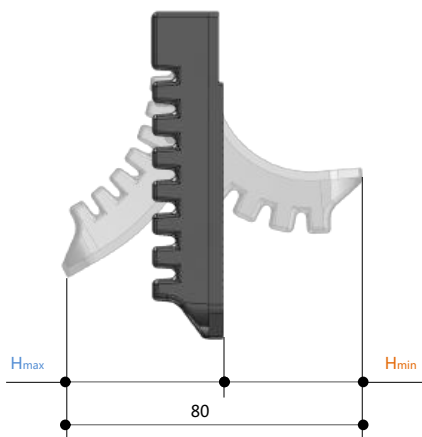
Please pay attention to the safe pressure. Always use the Rochu control unit or pressure reducer between grippers and air pumps. Overpressure will cause irreversible damage to the product, resulting in a sharp reduction of lifetime.



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]

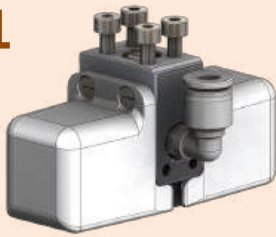
- The **Finger Module [FM]** is composed of the **Assembly module [SFM]** and the **Finger [F]**.
- Different **Assembly module [SFM]** has different air intake, fixation position, and combination mode.
- Select the appropriate **Finger[F]** according to the weight and size of the gripped workpiece. 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.

### Assembly module[SFM]

### Finger module[FM]

### Finger [F]

V1



V2



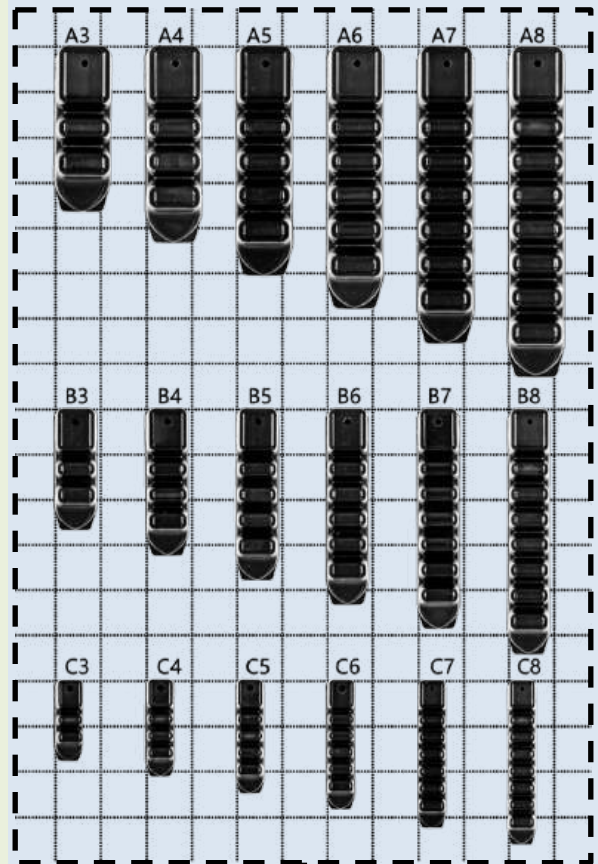
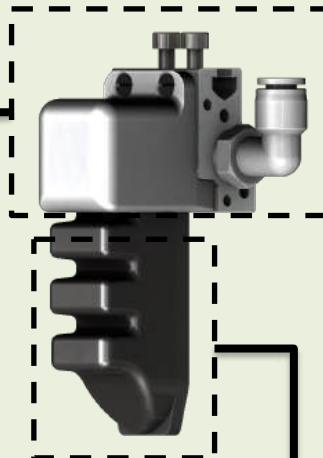
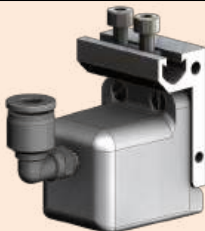
V3



V4



V5





## 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;

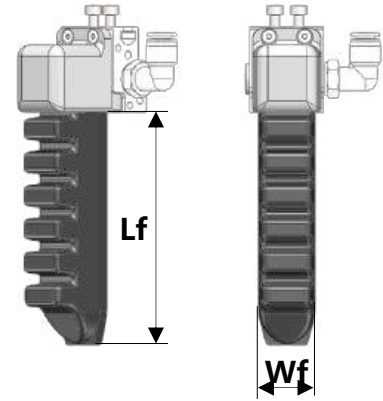
B3 , B4 , B5 , B6 , B7 , B8;

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.



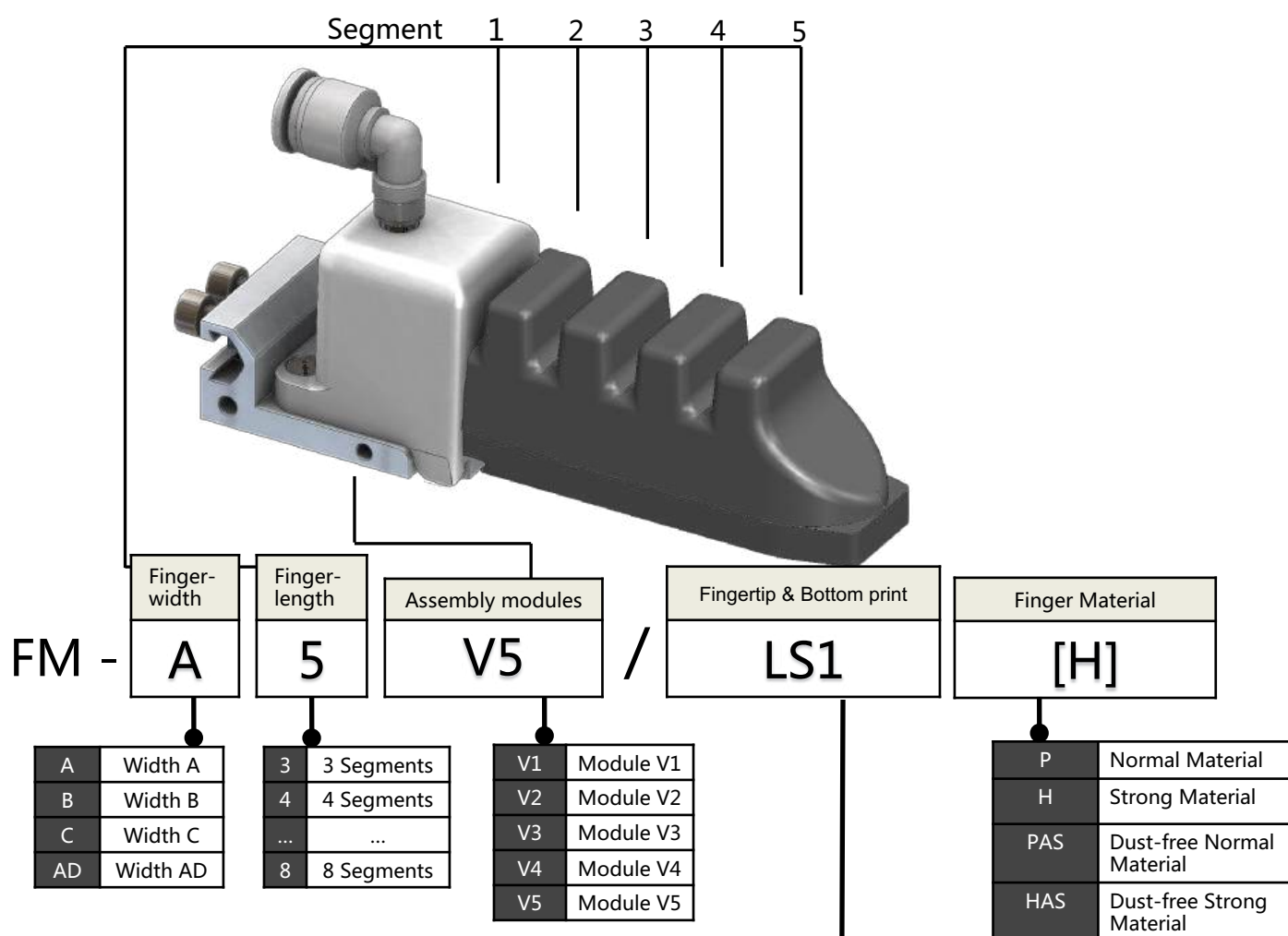
	3 Segments	4 Segments	5 Segments	6 Segments	7 Segments	8 Segments	Wf [mm]
<b>Finger Size</b>	A3	A4	A5	A6	A7	A8	
<b>Lf[mm]</b>	41	55	69	83	97	111	
<b>A</b>							24
		★	★				
<b>Finger Size</b>	B3	B4	B5	B6	B7	B8	
<b>Lf[mm]</b>	31	41.5	52	62.5	73	83.5	
<b>B</b>							18
			★				
<b>Finger Size</b>	C3	C4	C5	C6	C7	C8	
<b>Lf[mm]</b>	21	28	35	42	49	56	
<b>C</b>							12
		★					

★ : Common Finger Size





## Encoding Method



Fingertip & Bottom print	Features	Pictures		
Standard	<b>LS1</b>	Good versatility and wear resistance, suitable for rough object surfaces such as food, metal, and plastics.		
	<b>LF1</b>	Suitable for smooth dry workpieces and soft food.		
Special*	<b>FS3</b>	Suitable for soft fabric products.		
	<b>LS8</b>	Suitable for sheet metal parts, flat glass, PCB, car headlights, and other plates.		




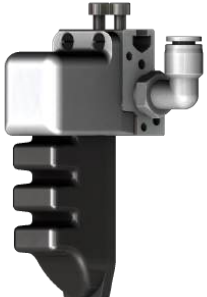

\* Please consult our customer service for more Special Fingertips and Bottom prints.





## Assembly Modules

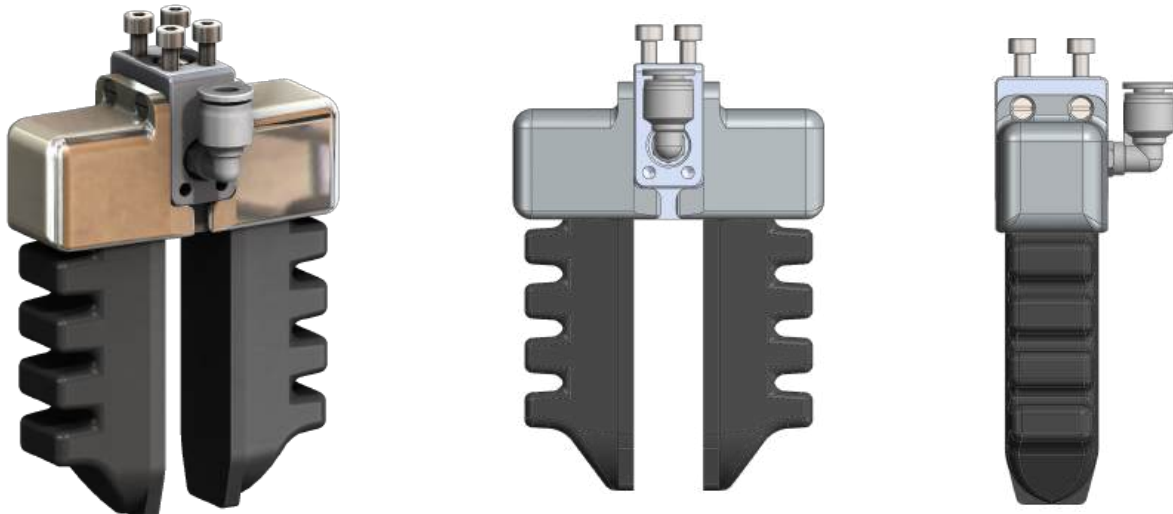
There are five Assembly Modules **V1**, **V2**, **V3**, **V4**, and **V5** with different air intakes, and fixation positions.

Assembly Modules	Pictures	Structural Features
<b>V1</b> Compact two-finger module		<ul style="list-style-type: none"> <li>• <b>Features:</b> 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.</li> <li>• <b>Fixation:</b> Can be fixed on three sides (optional).</li> <li>• <b>Air intake:</b> Intake joints are installed on three sides (optional).</li> <li>• Additional Sensor module (optional).</li> </ul>
<b>V2</b> Single-finger Module		<ul style="list-style-type: none"> <li>• <b>Features:</b> Single finger module combination, compatible with [SMP] sliding mounting plate, adjustable spacing and angle between fingers.</li> <li>• <b>Fixation:</b> Can be fixed on four sides (optional).</li> <li>• <b>Air intake:</b> Intake joints can be installed on three sides (optional).</li> <li>• Additional Sensor module (optional).</li> </ul>
<b>V3</b> Single-finger Module		<ul style="list-style-type: none"> <li>• <b>Features:</b> Single finger module combination, compatible with [SMP] Slide Mounting Plate, adjustable spacing, and angle between fingers.</li> <li>• <b>Fixation:</b> Can be fixed on three sides (optional).</li> <li>• <b>Air intake:</b> The intake joint can only be installed on one side (the back of the finger).</li> <li>• Additional Sensor module (optional).</li> </ul>
<b>V4</b> Series-finger Module		<ul style="list-style-type: none"> <li>• <b>Features:</b> 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.</li> <li>• <b>Fixation:</b> 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.</li> <li>• <b>Air intake:</b> Air intake on left or right sides (optional).</li> </ul>
<b>V5</b> Series-finger Module		<ul style="list-style-type: none"> <li>• <b>Features:</b> 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.</li> <li>• <b>Fixation:</b> 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.</li> <li>• <b>Air intake:</b> Single air intake on finger backside.</li> </ul>

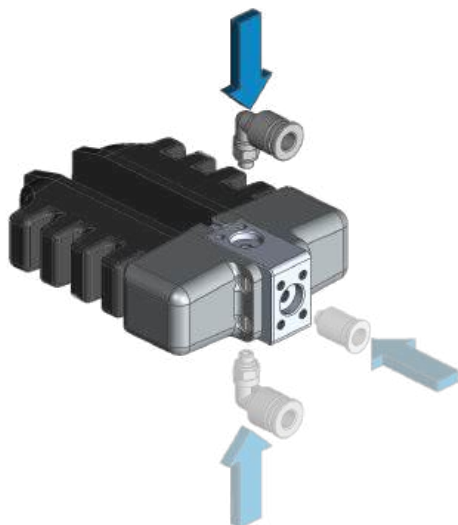


## V1 Assembly module: Compact two-finger module

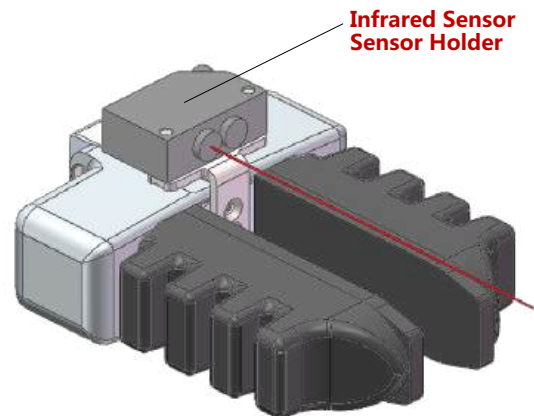
- **Features:** Double finger module combination, compact structure, and small space. Finger spacing and installation angle are unadjustable. It is suitable for gripping small, light, and thin workpieces.
- **Fixation:** Can be fixed on three sides (optional).
- **Air intake:** Intake joints are installed on three sides (optional).
- Additional Sensor module (optional).



### Air Intake



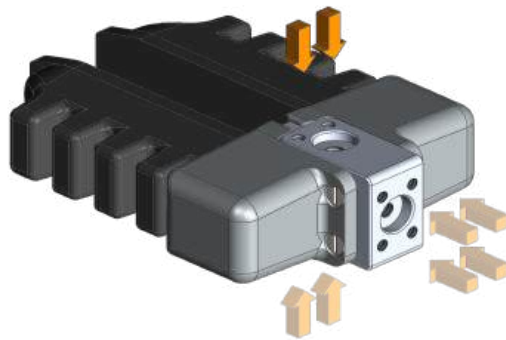
### Sensor Installation



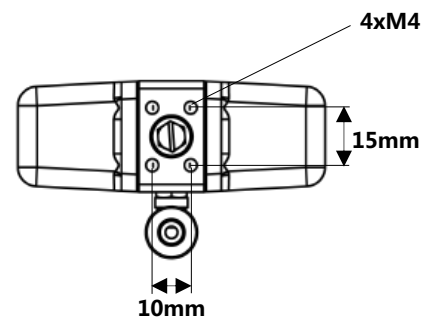
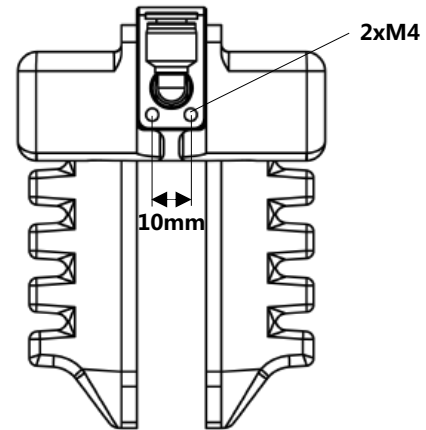


## V1 Assembly module: Compact two-finger module

### Fixation

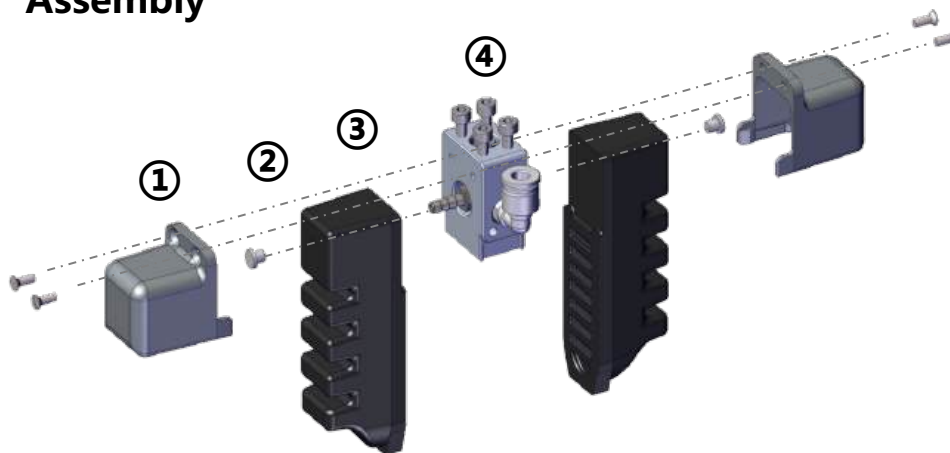


### Dimensions



FM

### Assembly

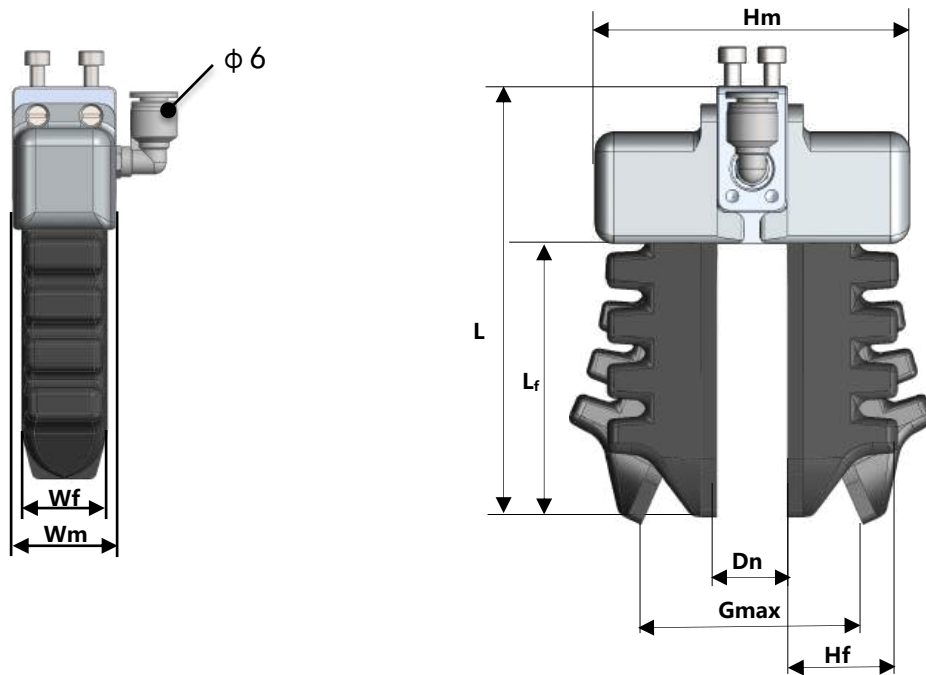


Spare Part:

- 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]		Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
			Finger Material									Finger Material	
			[P]/[PAS] <sub>1</sub>	[H]/[HAS] <sub>1</sub>								[P]/[PAS] <sub>1</sub>	[H]/[HAS] <sub>1</sub>
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

\* Gmax measured when real working pressure P= -80kPa (vacuum)

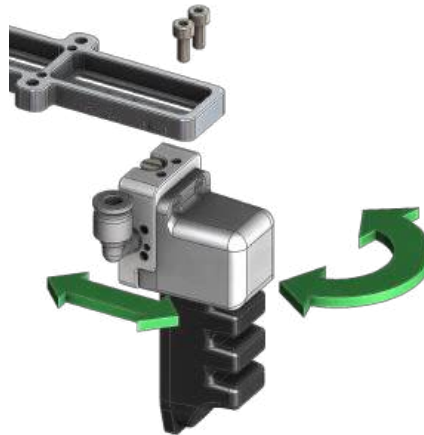


## V2 Assembly module: Single-finger Module

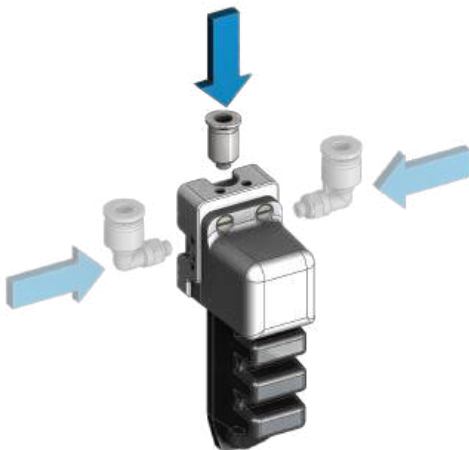
- **Features:** Single finger module combination, compatible with [SMP] sliding mounting plate, adjustable spacing and angle between fingers.
- **Fixation:** Can be fixed on four sides (optional).
- **Air intake:** Intake joints can be installed on three sides (optional).
- Additional Sensor module (optional).



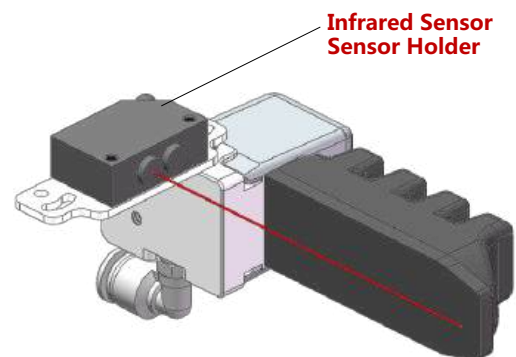
### Pose Adjustment



### Air Intake



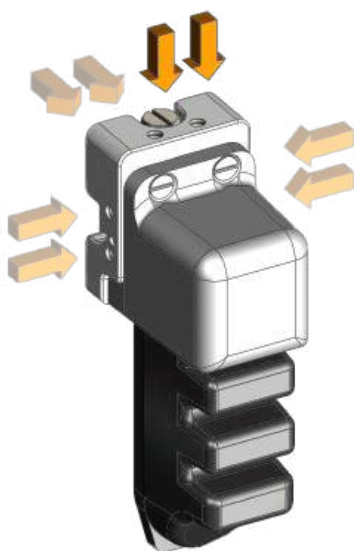
### Sensor Installation



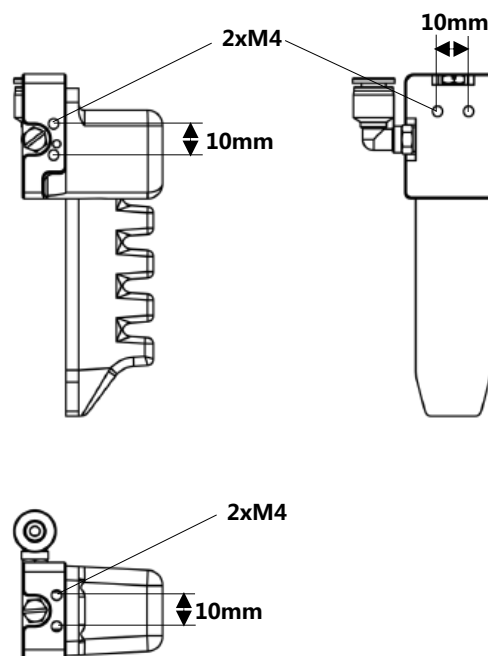


## V2 Assembly module: Single-finger Module

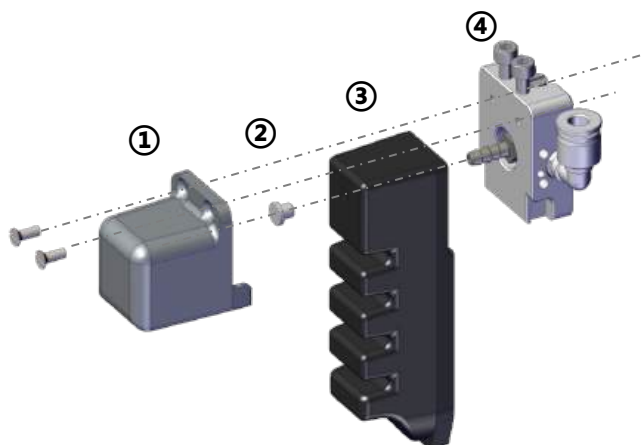
### Fixation



### Dimensions



### Assembly



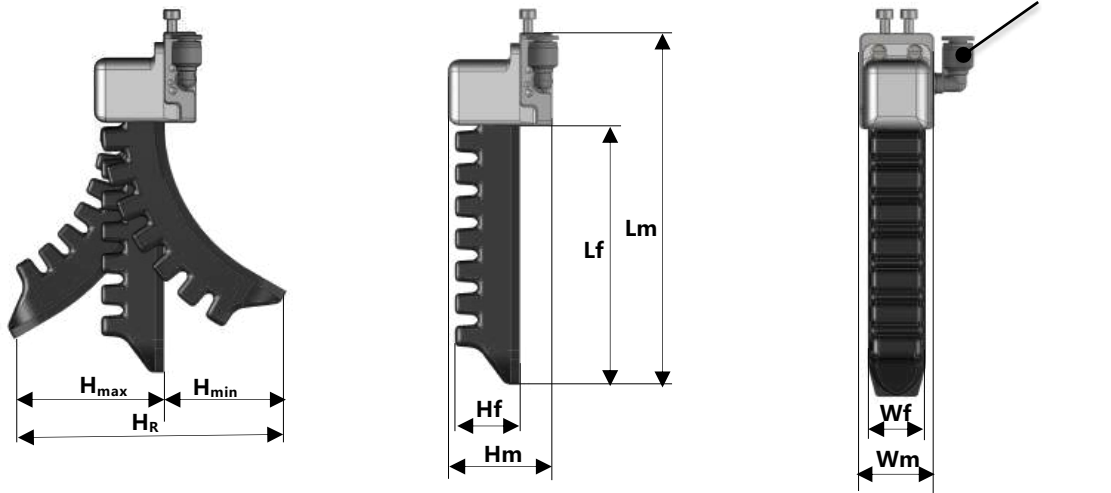
#### Spare Part:

- 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)

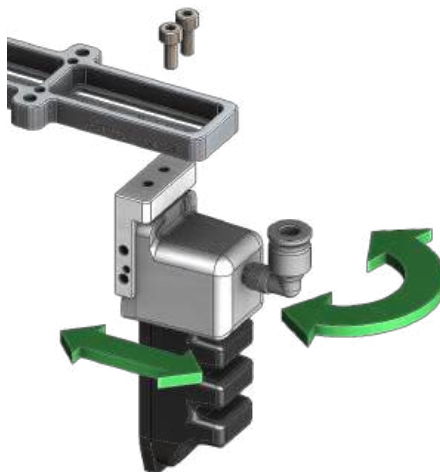


## V3 Assembly module: Single-finger Module

- **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).



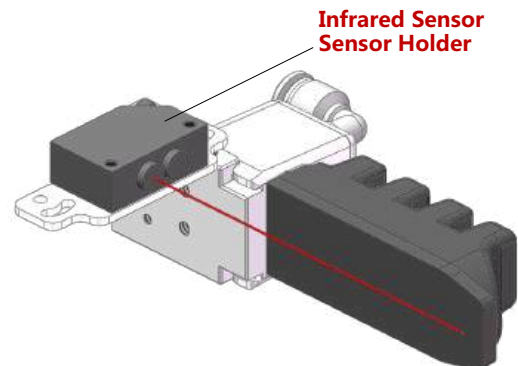
### Pose Adjustment



### Air intake



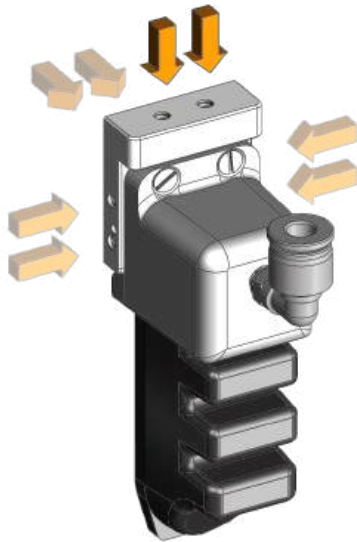
### Sensor Installation



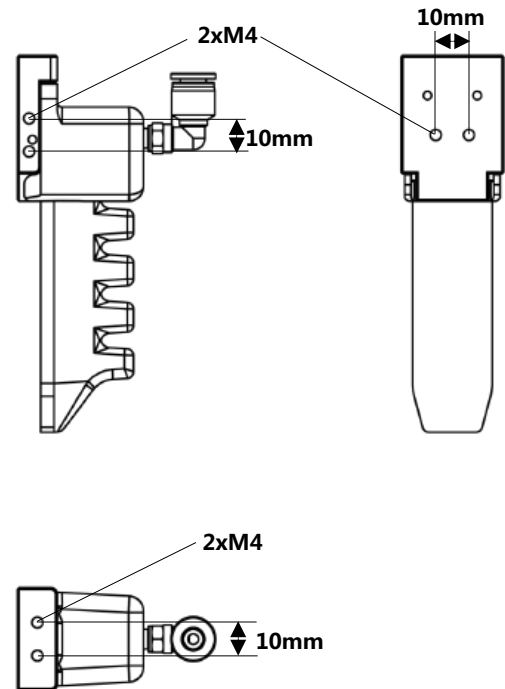


## V3 Assembly module: Single-finger Module

### Fixation

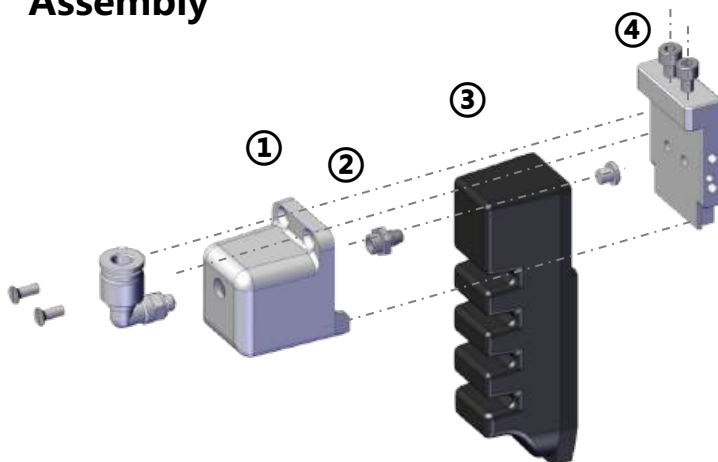


### Dimensions



FM

### Assembly

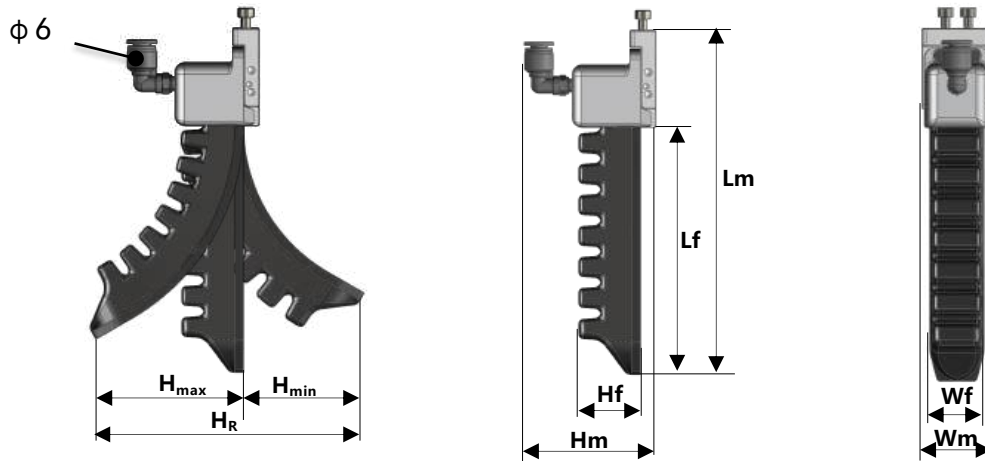


Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## V3 Assembly module: Single-finger Module



Finger Size	Finger Module	HR [mm]	Negative Pressure Range *		Positive Pressure Range ** Hmin [mm]	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
			Hmax [mm]										Finger Material	
			[P]/[PAS] ]	[H]/[HAS] ]									[P]/[PAS]	[H]/[HAS]

FM	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

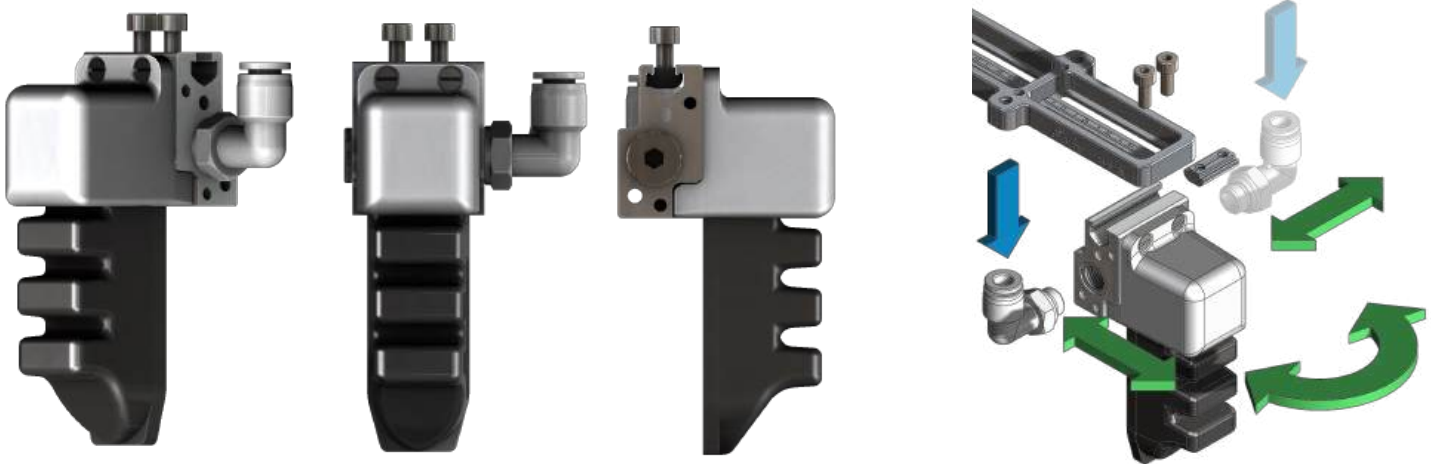
\* : Negative Pressure Range **H<sub>max</sub>** : Working pressure is -80kPa.

\*\* : Positive Pressure Range **H<sub>min</sub>** : For Normal Material Finger[P]/[PAS] , working pressure is 100kPa. For Strong Material Finger[H]/[HAS] , working pressure is 250kPa.



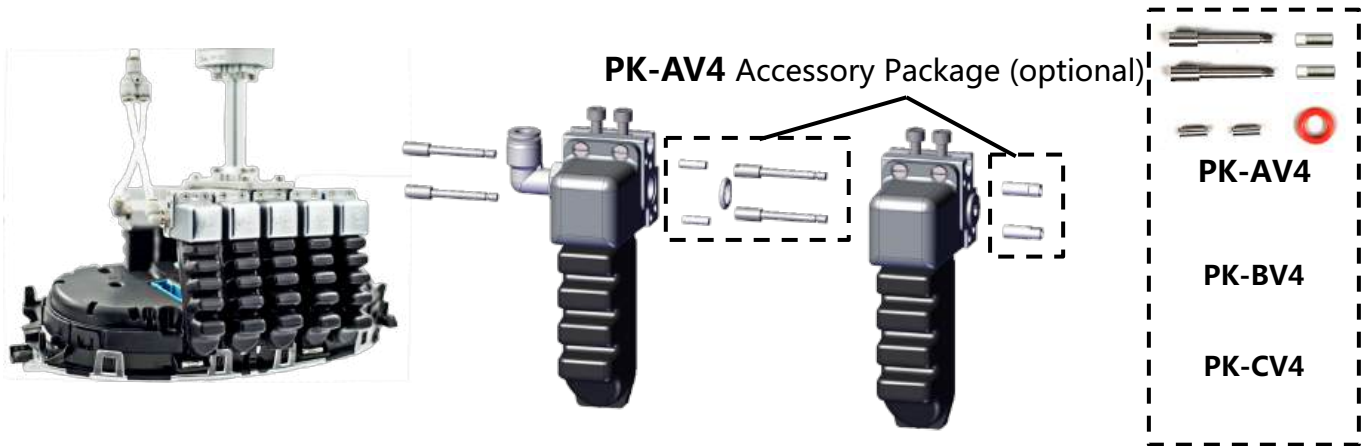
## V4 Series-finger Module: Series air circuit, high load.

- **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).



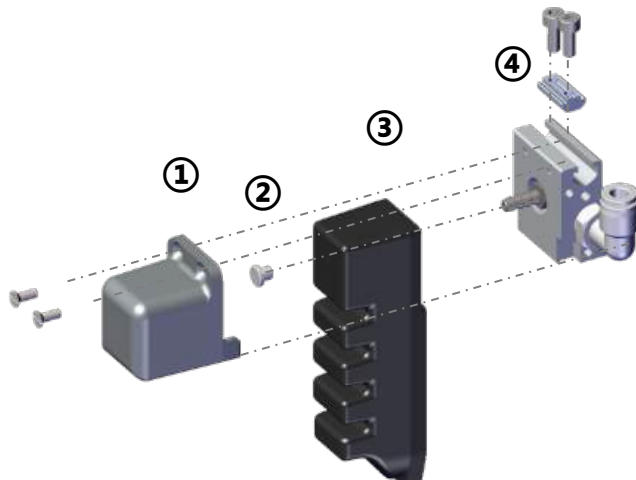
### Series combination:

- 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.



FM

### Assembly

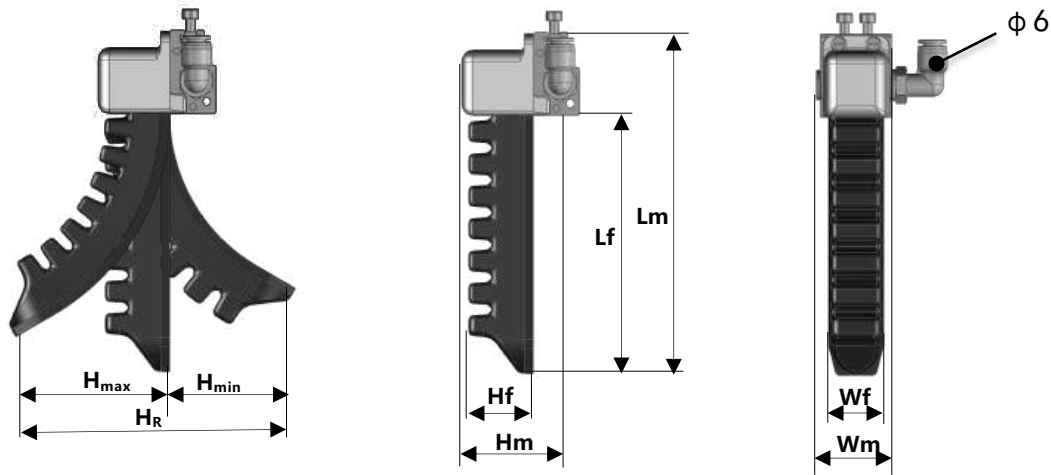


#### Spare Part:

- ① Shell
- ② Plug
- ③ Finger
- ④ Mounting Block



## V4 Assembly Module: Series-finger Module



Finger Size	Finger Module	HR [mm]	Negative Pressure Range *		Positive Pressure Range **	Hm [mm]	Hf [mm]	Lm [mm]	Lf [mm]	Wm [mm]	Wf [mm]	Weight [g]	Safe Pressure [kPa]	
			Hmax [mm]										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.

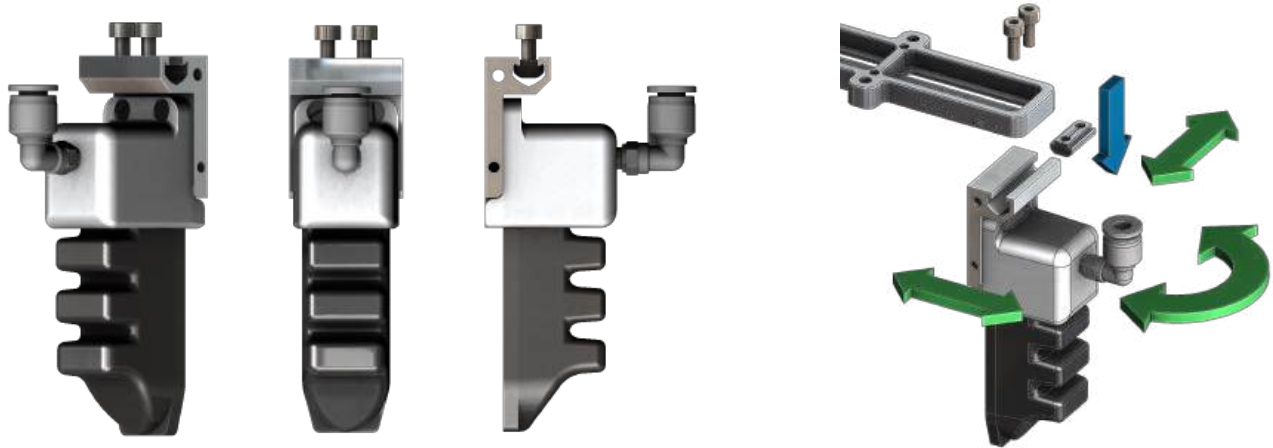
\*\* : Positive Pressure Range  $H_{min}$  : For Normal Material Finger[P]/[PAS] , working pressure is 100kPa. For Strong Material Finger[H]/[HAS], working pressure is 250kPa.





## 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.

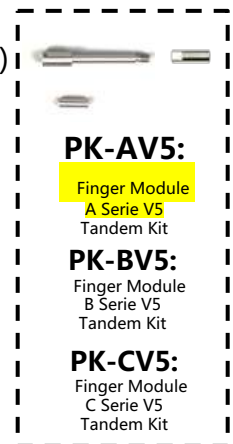
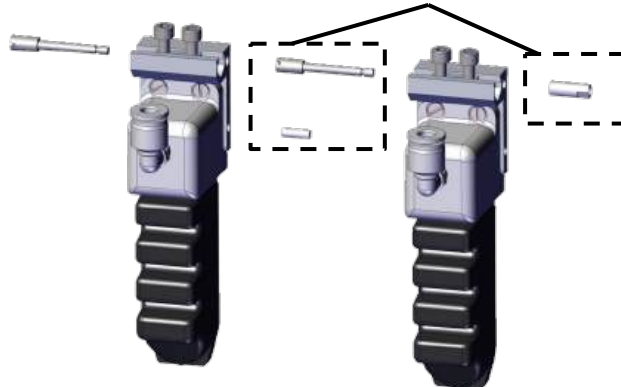


### Series combination:

- 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.

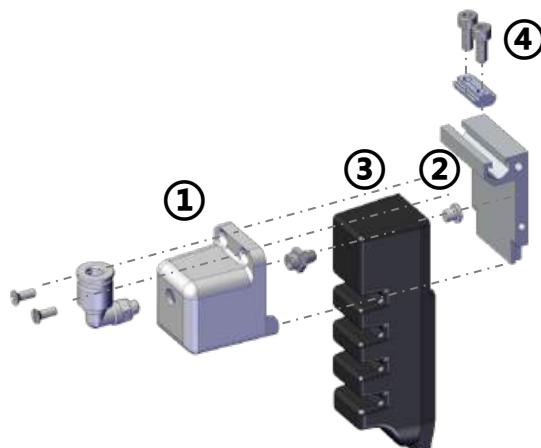


### PK-AV5 Accessory Package (optional)



FM

## Assembly

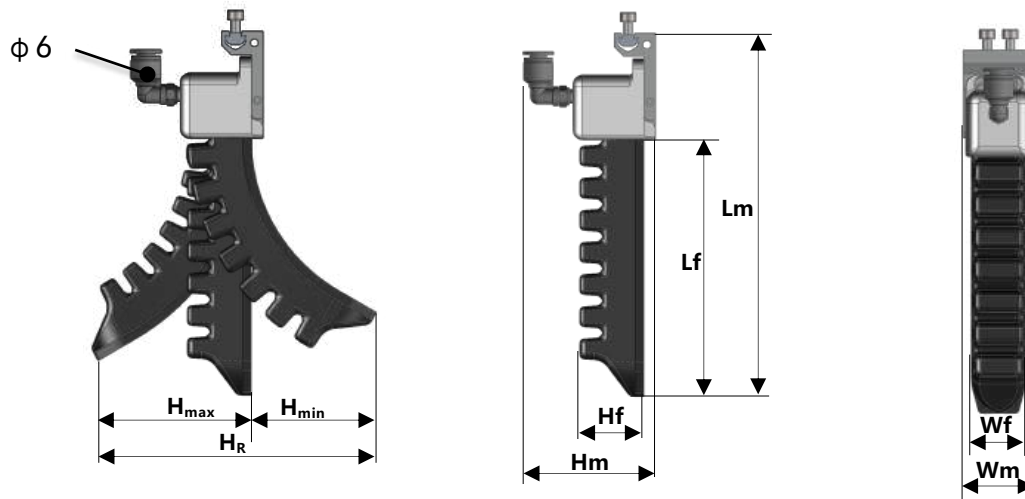


### Spare Part:

- 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  $H_{max}$ :Working pressur 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.



## 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  $F_G$  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  $D_n$  (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  $W = 80\text{mm}$ , and the covering length of the fingertip is  $LG = 20\text{mm}$ :

Working condition 1 :

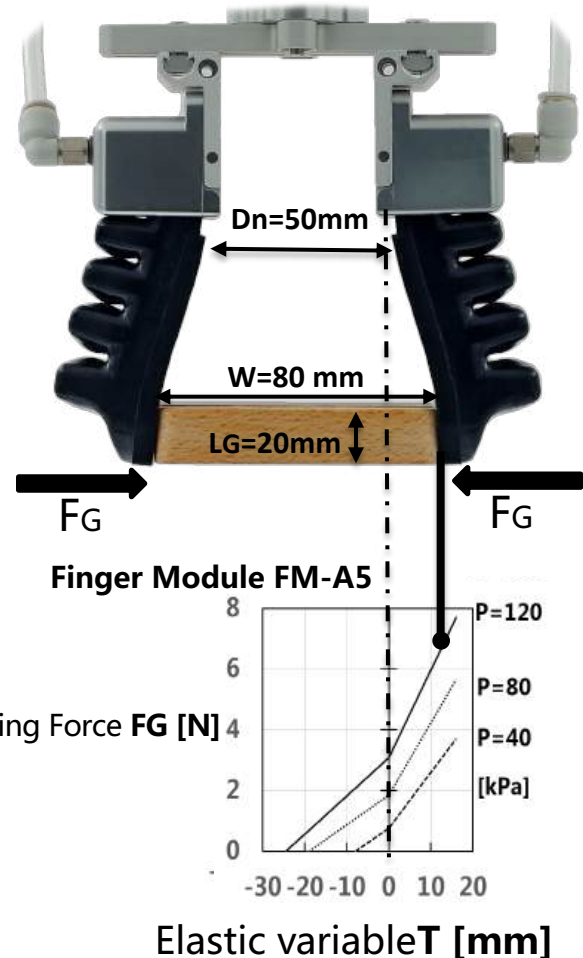
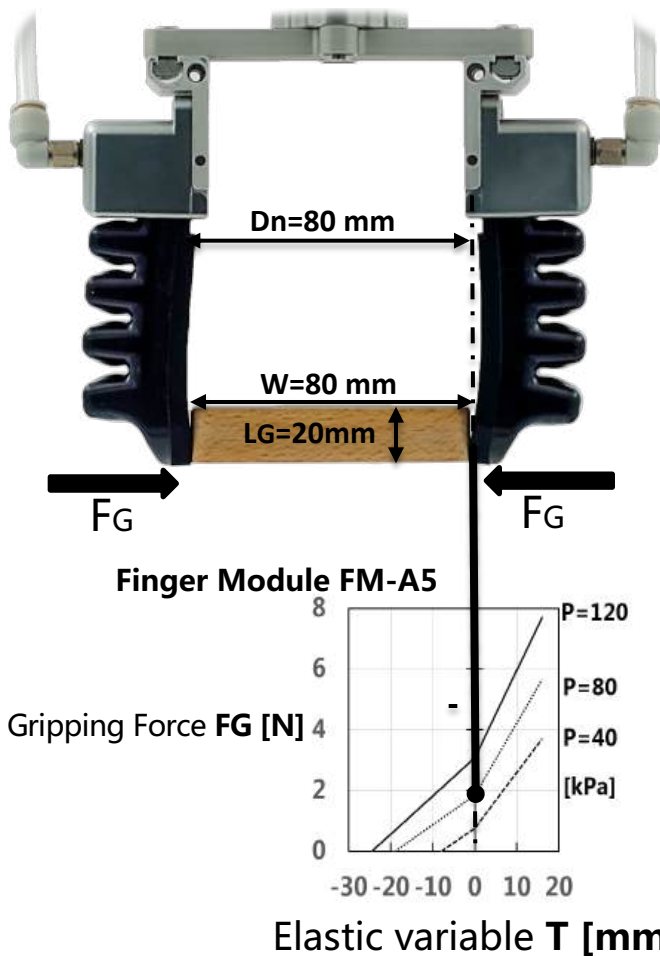
Installation fingertip distance  $D_n=80\text{ [mm]}$

Working pressure  $P=80\text{ [kPa]}$

Working condition 2 :

Installation fingertip distance  $D_n= 50\text{[mm]}$

Working pressure  $P=120\text{ [kPa]}$



Elastic variable  $T= ( W-D_n ) /2=0\text{ [mm]}$

Gripping Force  $F_G=1.85\text{ [N]}$

When the workpiece width  $W>$  installation fingertip distance  $D_n$   
Elastic variable  $T= ( W-D_n ) /2=15\text{ [mm]}$

Gripping Force  $F_G=7.3\text{ [N]}$

- 1, Higher working pressure  $P$ , higher Gripping force  $F_G$ .
- 2, Shorter finger distance  $D_n$ , higher Gripping force  $F_G$ .
- 3, Bigger finger size, higher Gripping force  $F_G$ .
- 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  $D_n$  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  $F_G$ , the real handling load of the gripper is also related to the shape of the object, friction coefficient, finger bottom print, machine speed, etc.



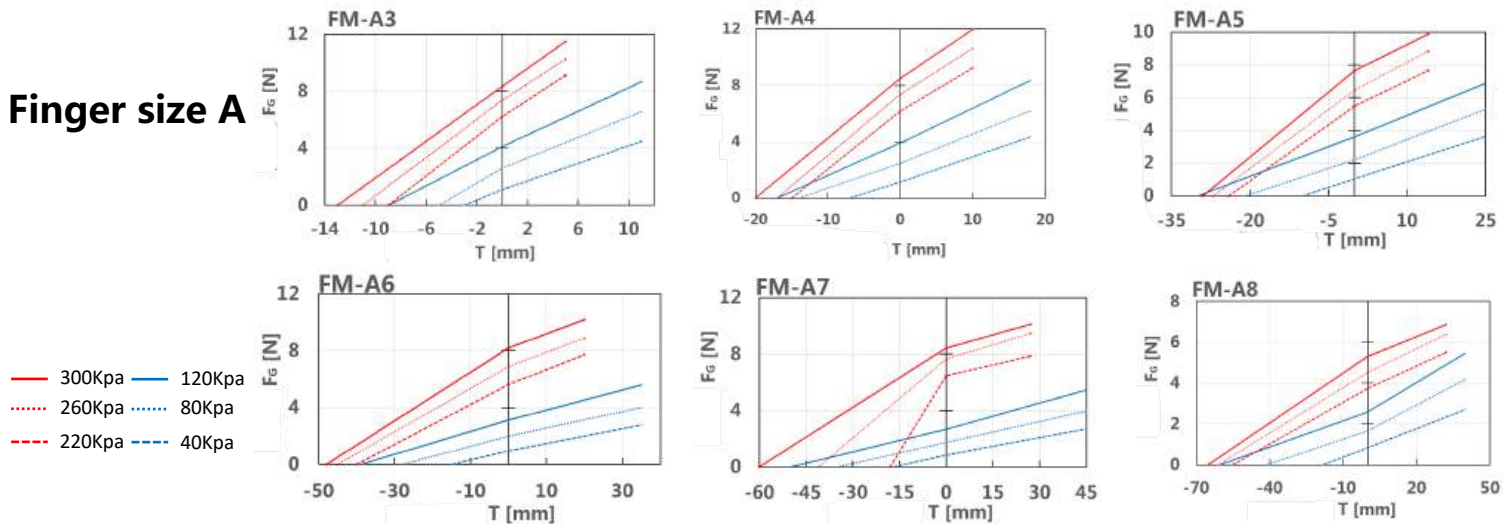
### Finger Module Gripping force diagram

The relevant values in the curve are determined under the following conditions:

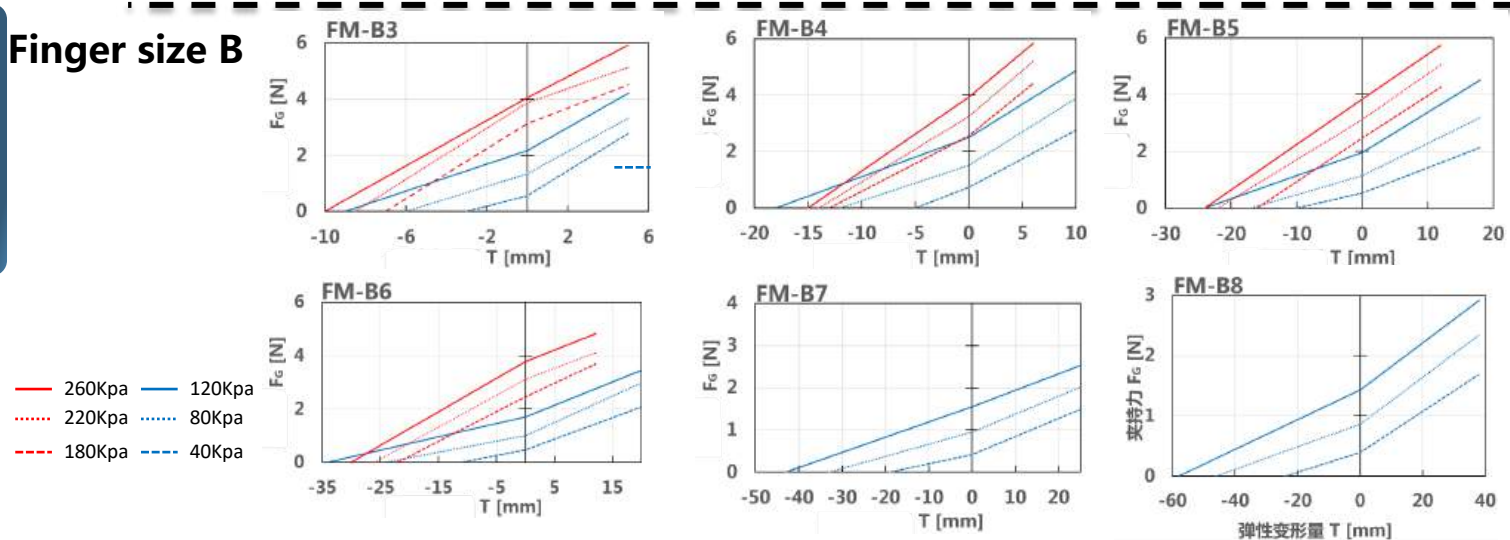
- finger material: normal material, strong material
- use square workpiece, finger pattern LS1, (page. 53)
- only the fingertip part is in contact with the workpiece, and the fingertip covering length  $LG = 10\text{mm}$ .
- the following data is for reference only. Under other working conditions, the values will be different

**FG [N]** : Gripping Force  
**T [mm]** : Elastic variable

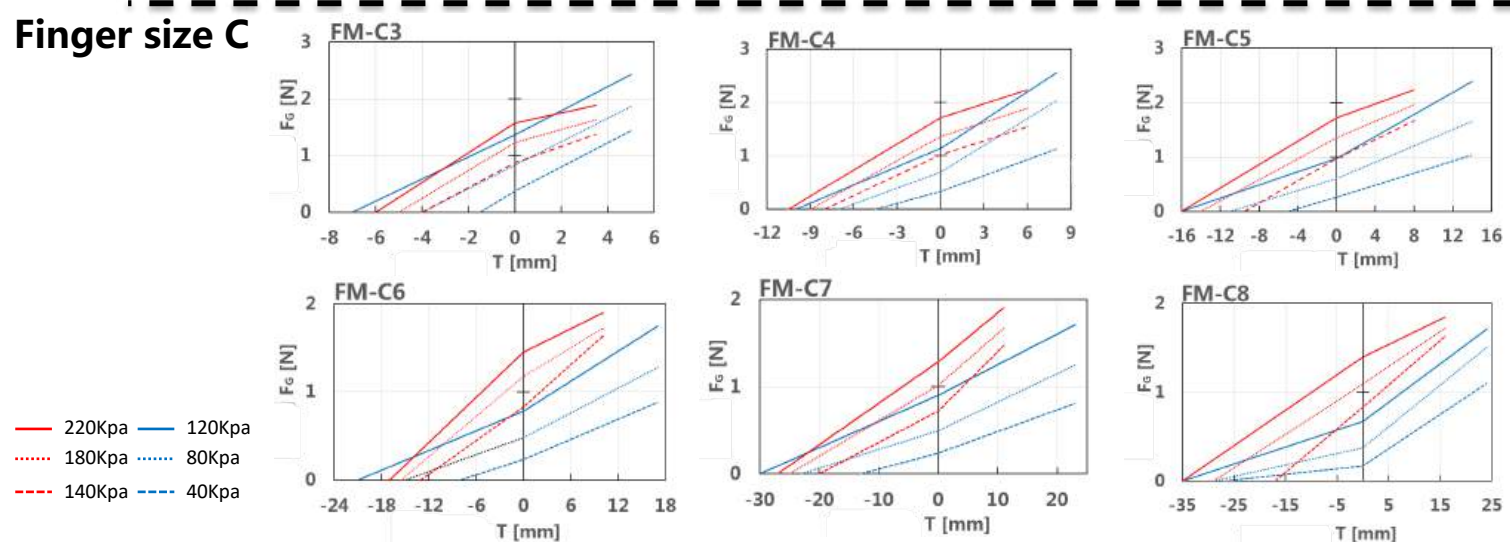
#### Finger size A



#### Finger size B



#### Finger size C







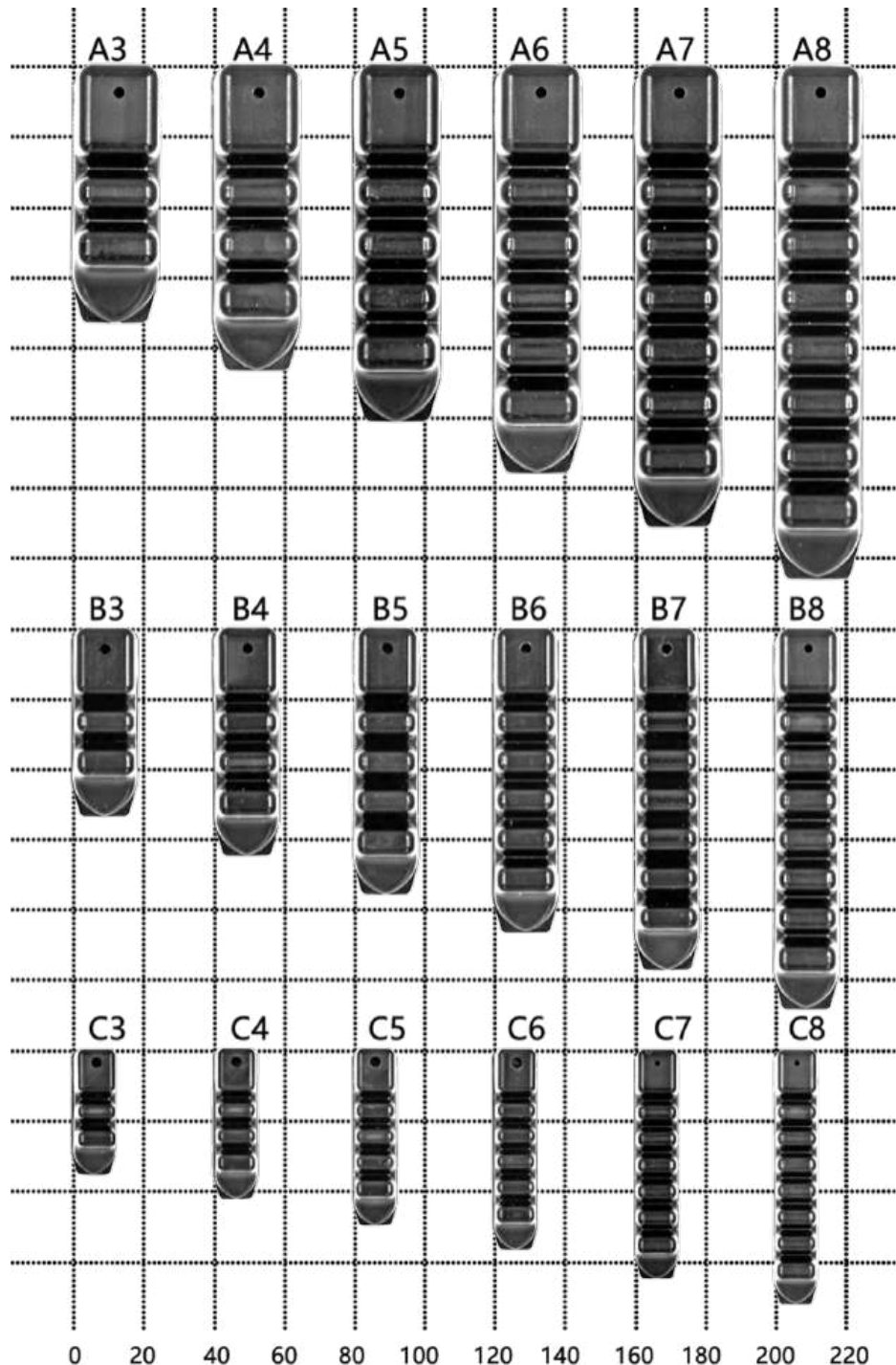
**Rochu Finger [F]** can be replaced independently.

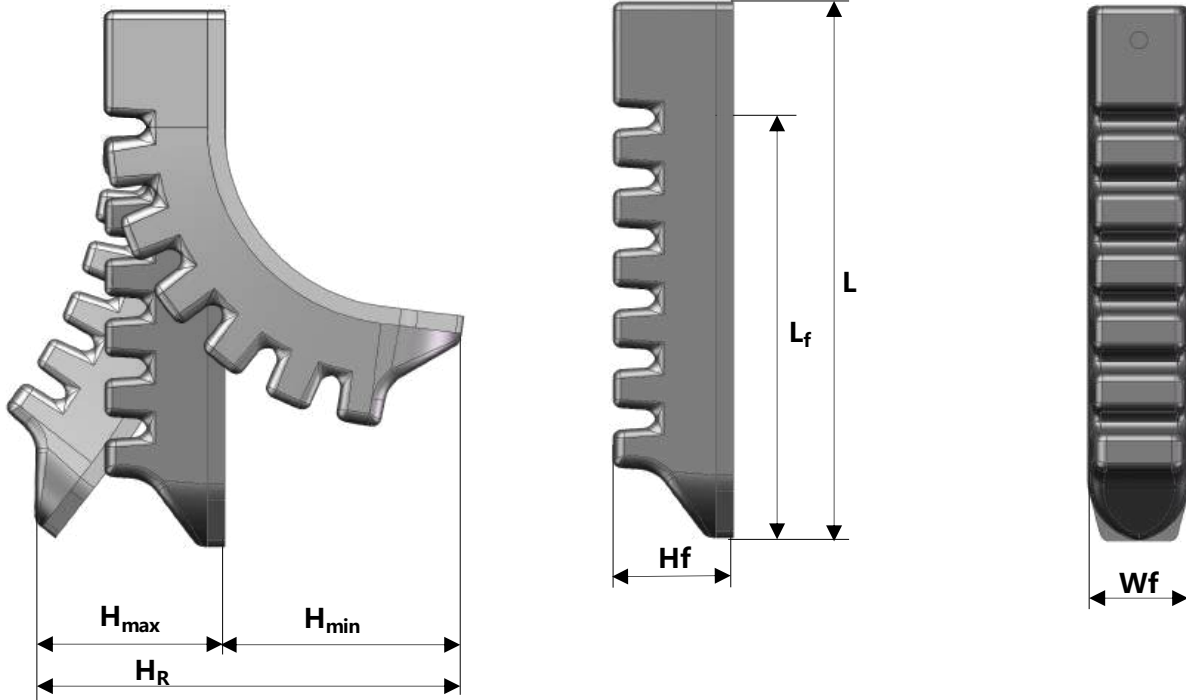
There are 18 finger sizes (A3 , A4 , A5 , A6 , A7 , A8; B3 , B4 , B5 , B6 , B7 , B8; C3 , C4 , C5 , C6 , C7 , C8).

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





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.

FM



# 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*



 <p>page. 447</p>	 <p>page. 447</p>
<b>iPCU2-SMN</b>	<b>iPCU2-HMN</b>
 <p>page. 451</p>	 <p>page. 453</p>
<b>ACU2-B</b>	<b>ACU2-H</b>
 <p>page. 456</p>	 <p>page. 456</p>
<b>PCU2-M</b>	<b>PCU2-V</b>
 <p>page. 461</p>	
<b>LCU-H</b>	



## 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 $\pm 10\%$	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
Output air pressure	-90~300kPa	Control mode	1. Manual button 2. I/O , level signal
Working noise	50db	Working mode	Continuous drive mode

CU

### Model

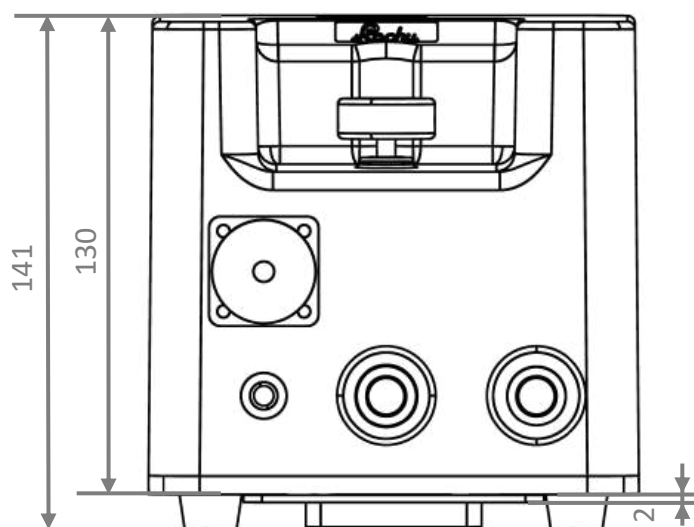
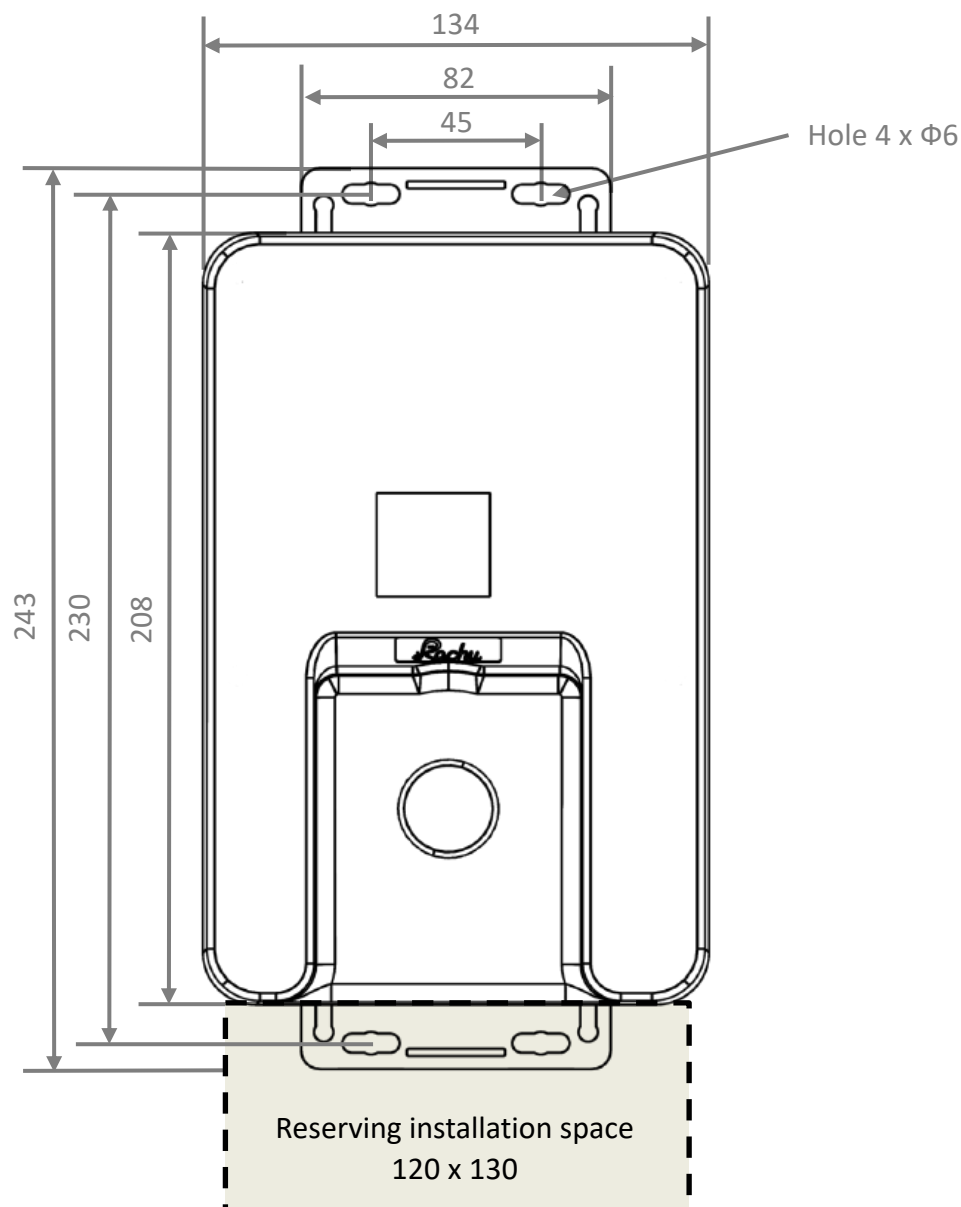
iPCU2 has two options: standard **iPCU2-SMN** and high-speed **iPCU2-HMN**. High-speed iPCU2-HMN has a larger Vacuum flow, which is suitable for high-speed handling.

Model		manual	electron ic	Wireless remote	feedback	Safe pressure	Max pressure [kPa]	Pressure flow [L/min]	Vacuum flow [L/min]
Standard	<b>iPCU2-SMN</b>	•				adjustable	-90	260	40
High speed	<b>iPCU2-HMN</b>	•				adjustable	-80	260	80

The flow parameters test conditions: air source port Pressure= 0.6mpa, gripper set Pressure=100kPa



## iPCU2 Size

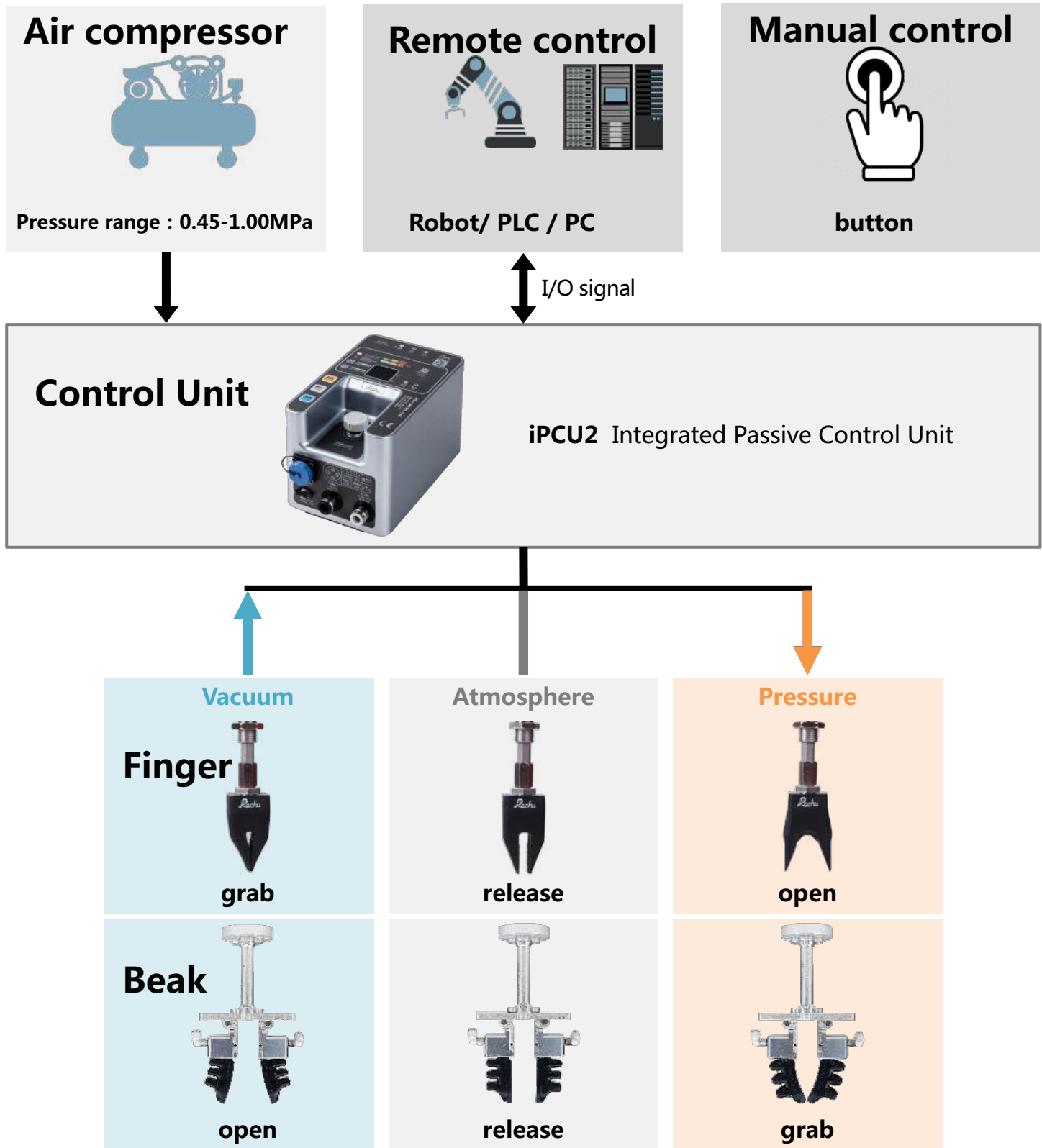


CU

Control Unit



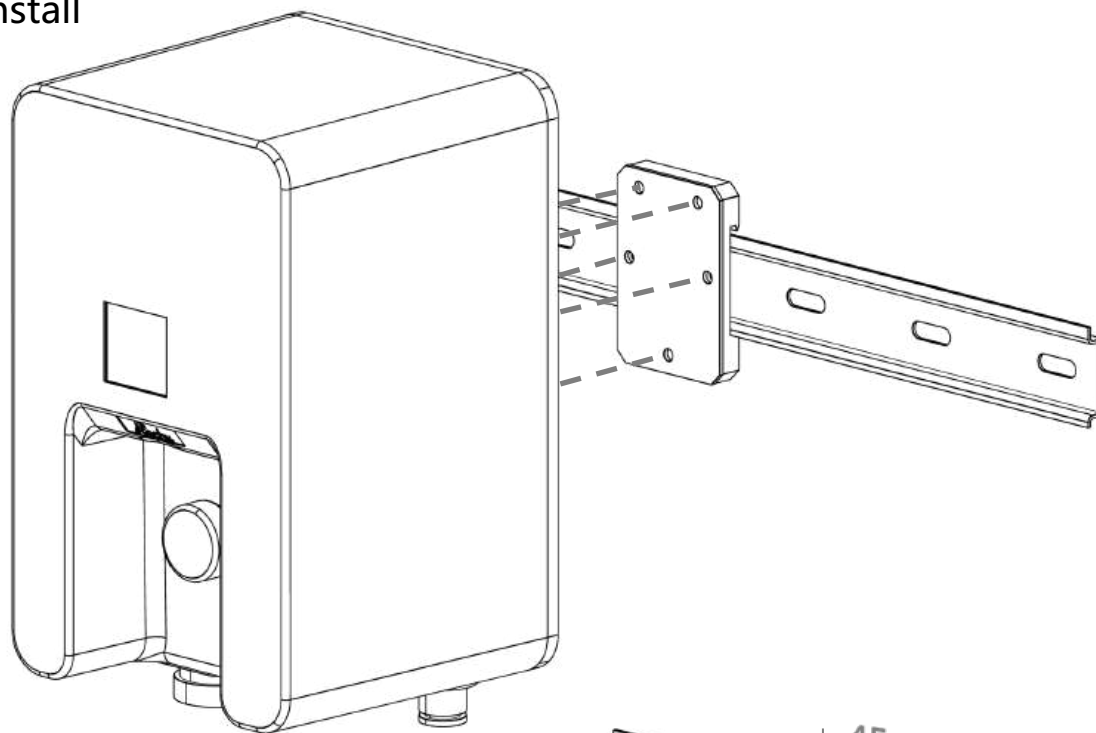
## How to use iPCU2?



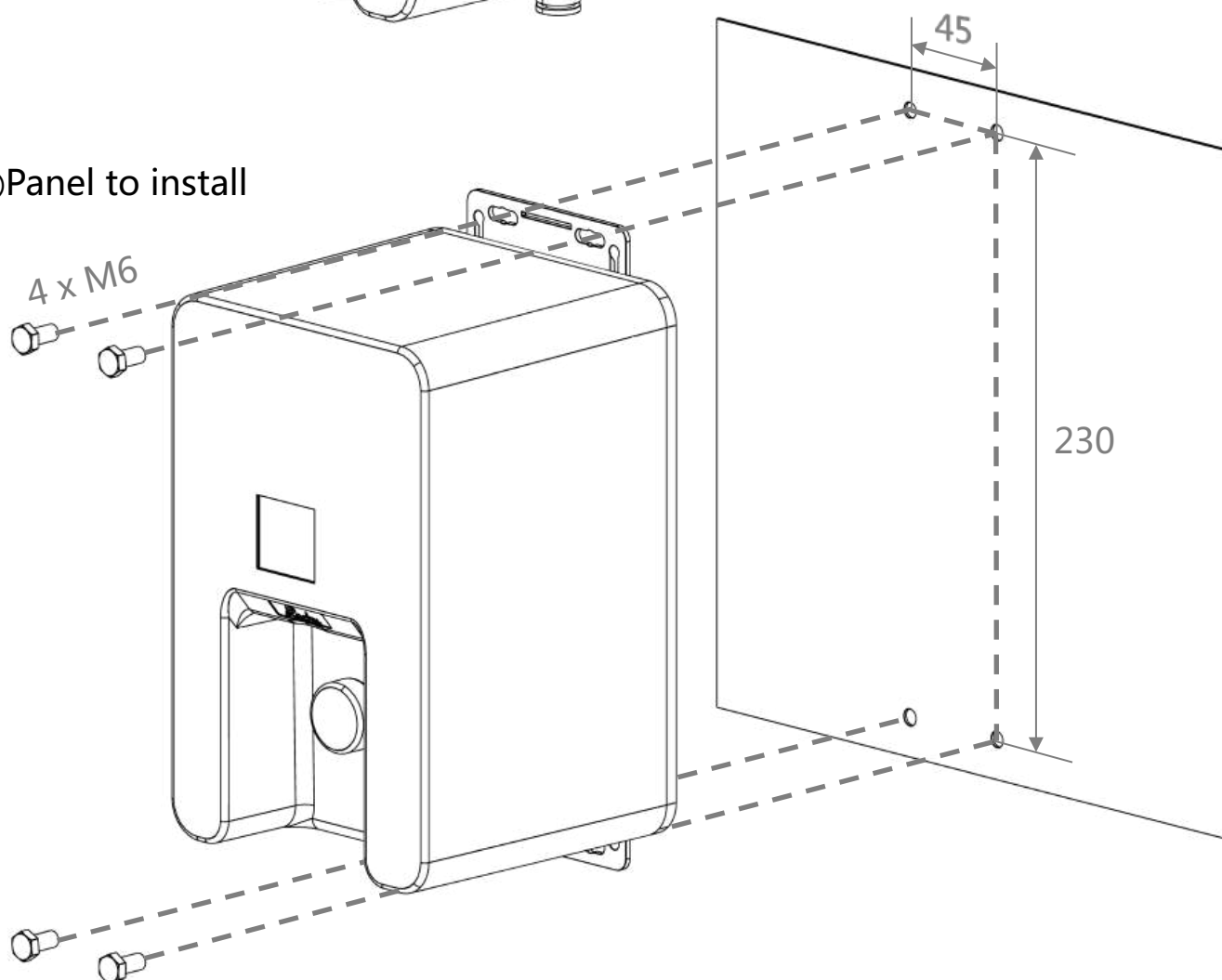


## iPCU2 Installation

### ① Slot to install



### ② Panel to install



CU

Control Unit





## 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  $\pm 10\text{kPa}$ .
- 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.



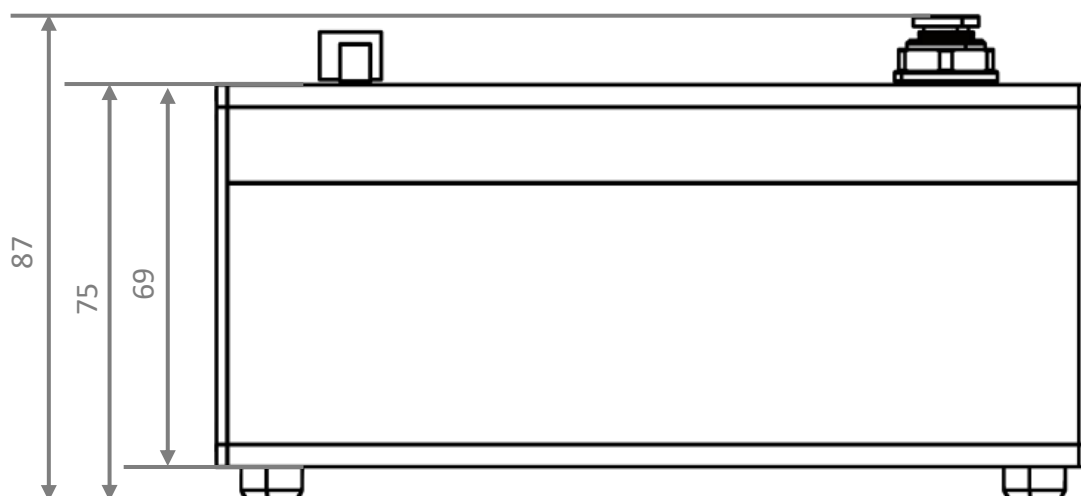
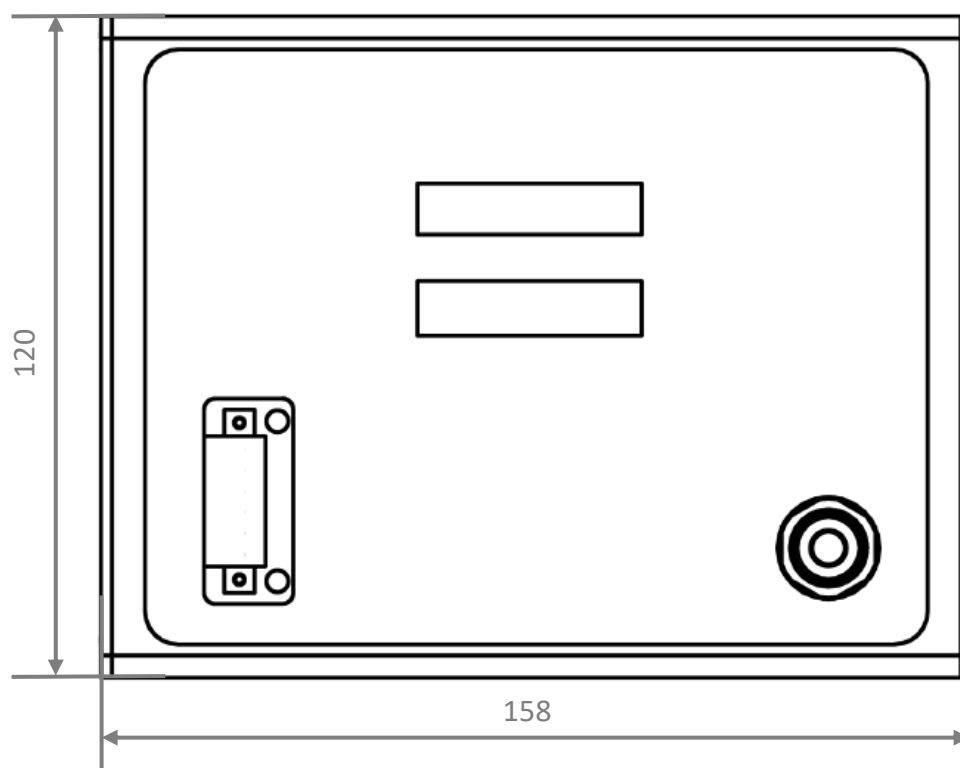
CU

### Parameter

Item	Range	Item	Range
Nominal Voltage	24VDC $\pm 10\%$	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
Output accuracy	$\pm 10\text{kPa}$	Mode	1. Manual button 2. I/O , level signal
PressureFlow	4L/min	working mode	Continuous signal drive
VacuumFlow	4L/min	working noise	50db



## ACU2-B Size



CU

Control Unit



## 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  $\pm 3\text{kPa}$ .
- 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.



### Parameter

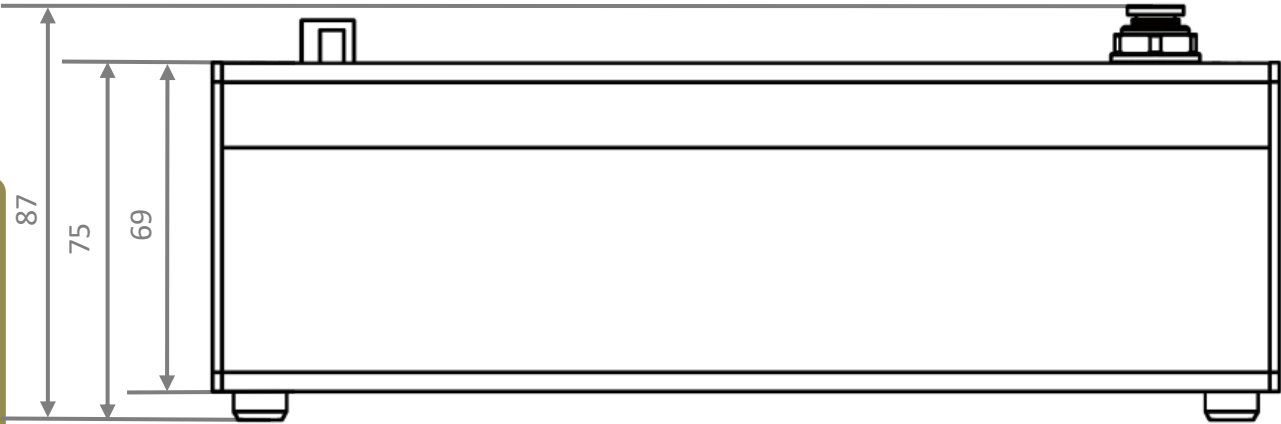
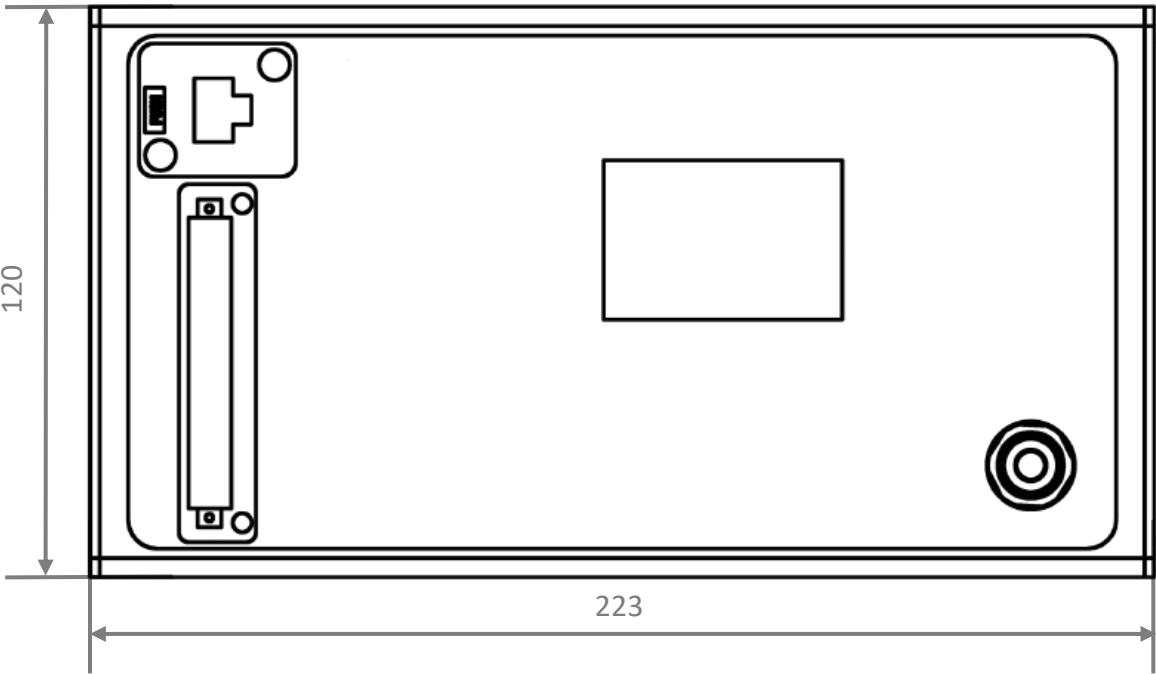
Item	Range	Item	Range
Nominal Voltage	24VDC $\pm 10\%$	Frame Material	Anodic oxidation of aluminum alloy
Rated Power	48W	Size	120x223x75mm
Life time	5000小时	Net Weight	1.8kg
Output pressure	-80~280kPa	Protect grade	IP54
Output accuracy	$\pm 3\text{kPa}$	Mode	1. Manual button
PressureFlow	8L/min		2. I/O , level signal
VacuumFlow	8L/min		3. Voltage analog regulating pressure
working noise	50db		4. MODBUS TCP/RTU
		working mode	Continuous signal drive



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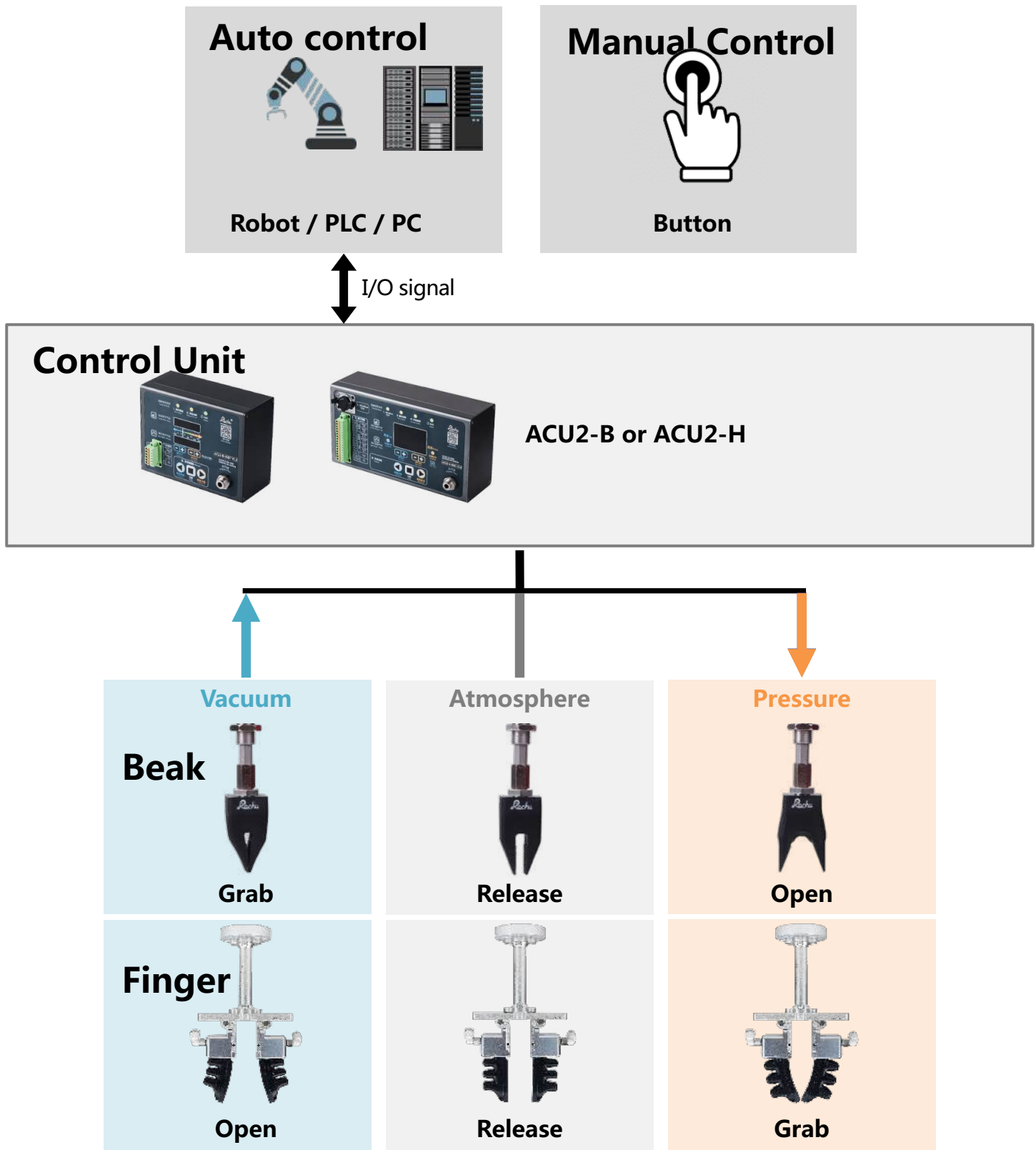
ACU2-H Size



CU  
Control Unit



## How to use ACU2-B &amp; ACU2-H





## 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 $\pm 10\%$	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 ) 4. Modbus TCP/RTU
Output pressure	-80~300kPa	working mode	Continuous signal drive
Pressure Flow	260L/min	working noise	50db
Vacuum Flow	80L/min		

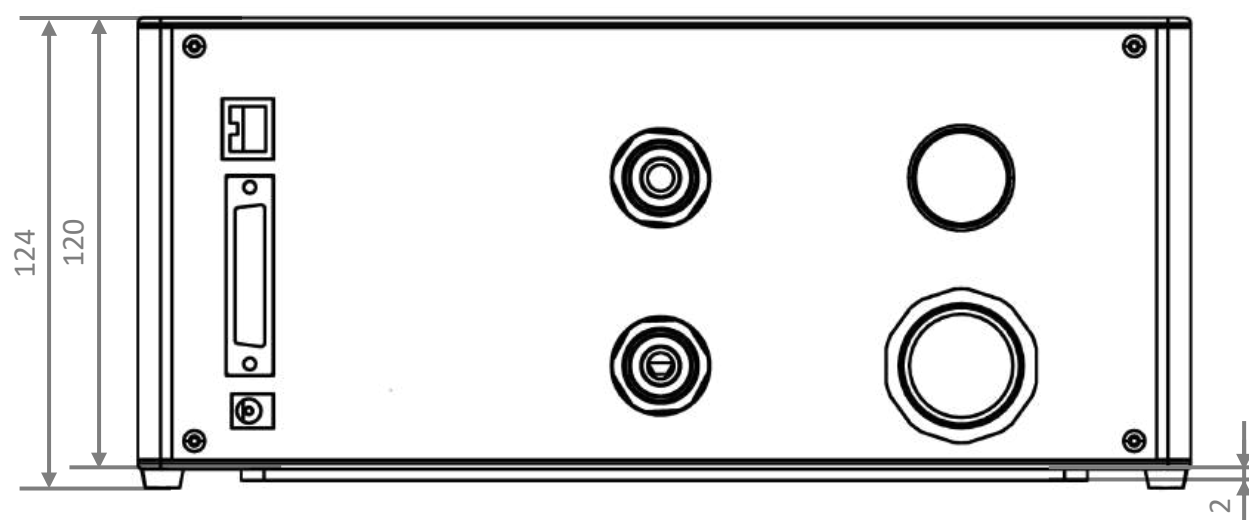
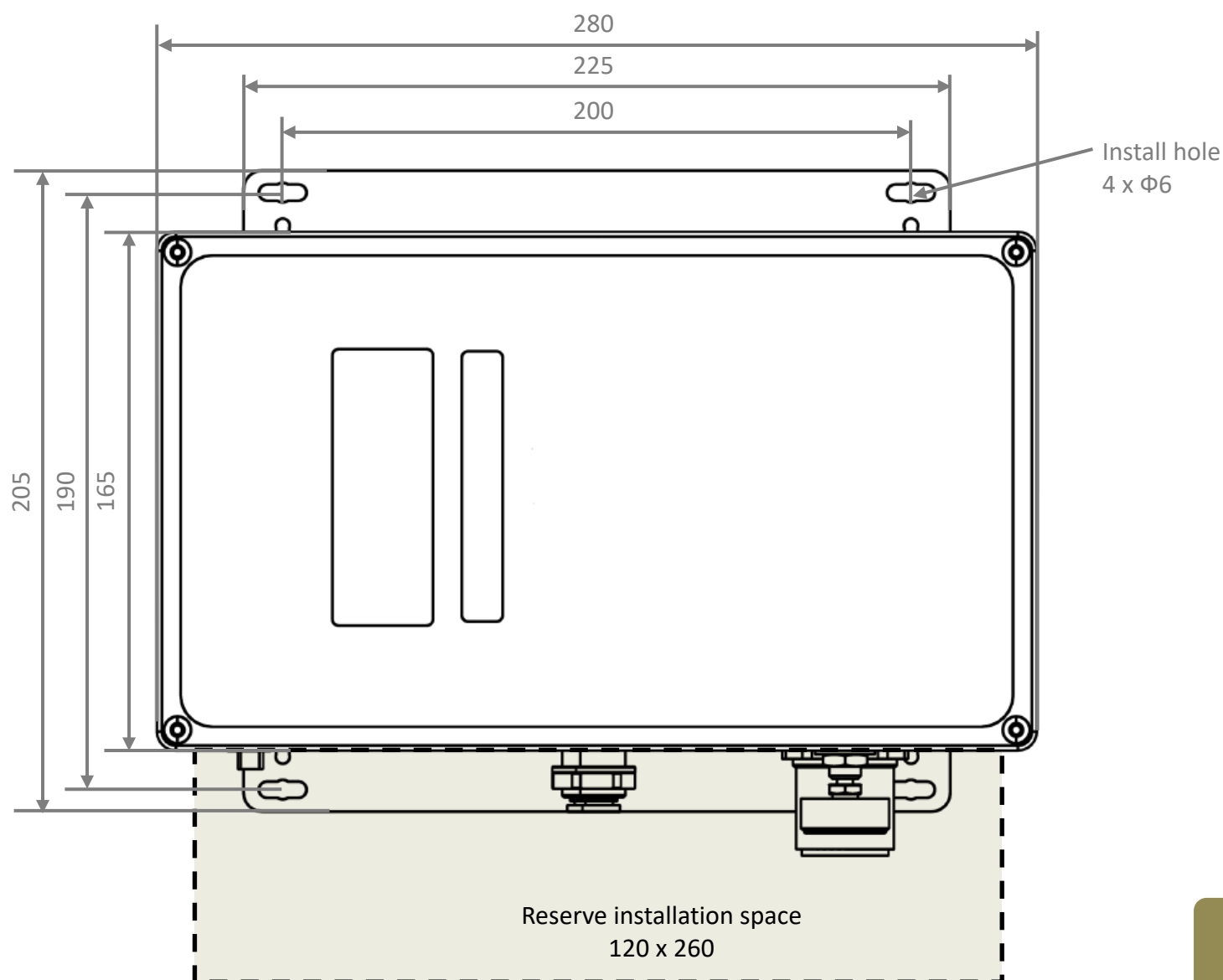
### Model

Model	Manual	Electronic	remote	feedback	Safe pressure	Size [mm]	Net Weight [kg]
Manual regulator <b>PCU2-M</b>	•		•	•	adjustable	165x280x124	3.85
Electronic regulator <b>PCU2-V</b>		•		•	adjustable	165x280x154	4.40





## PCU2-M Size



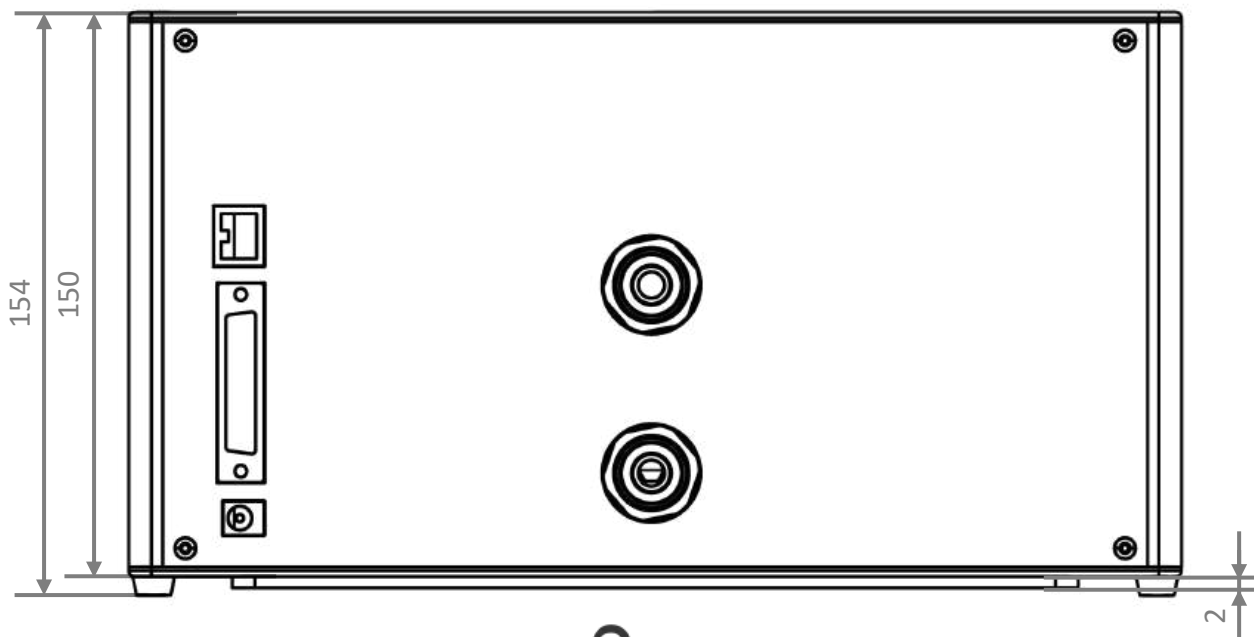
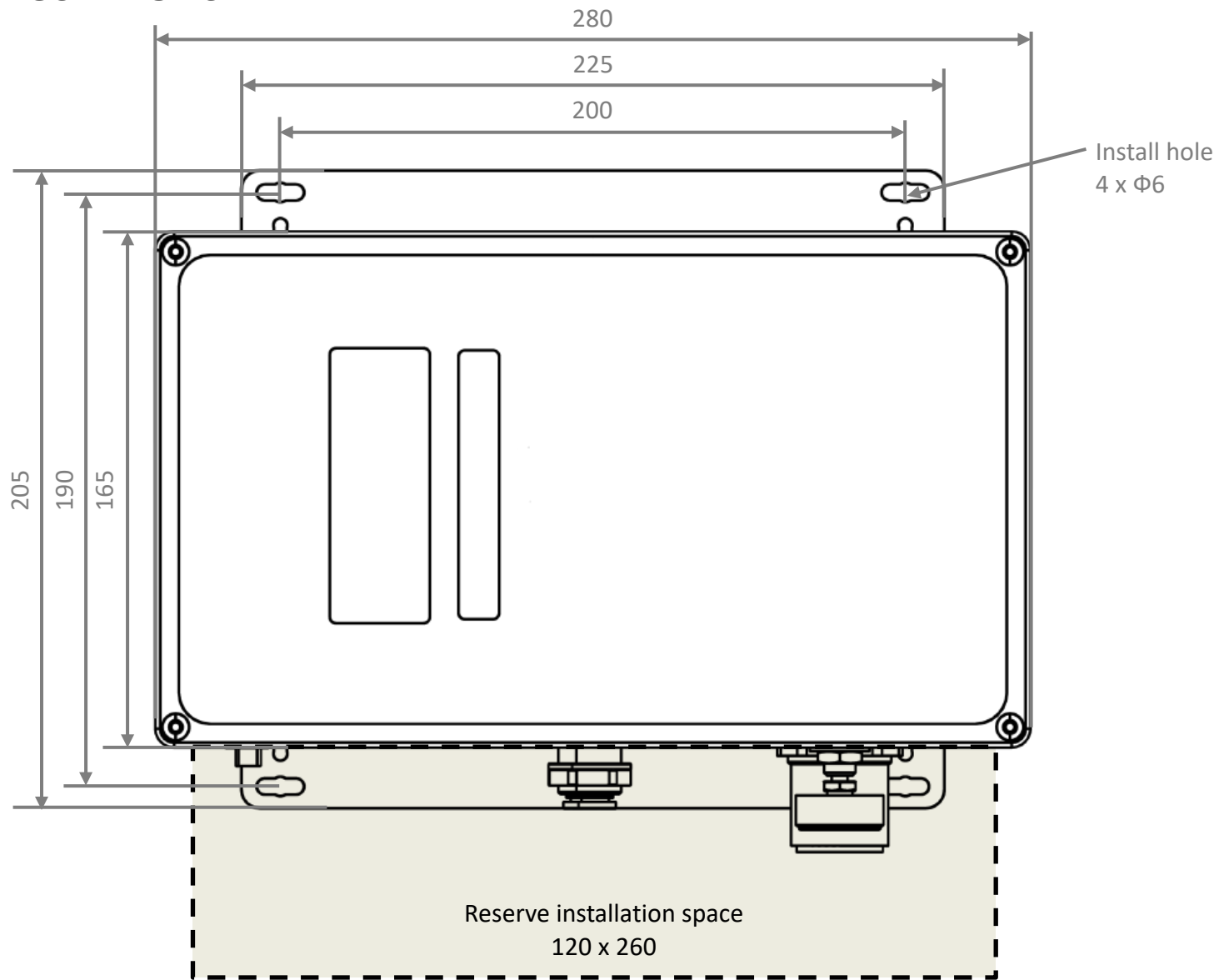
CU



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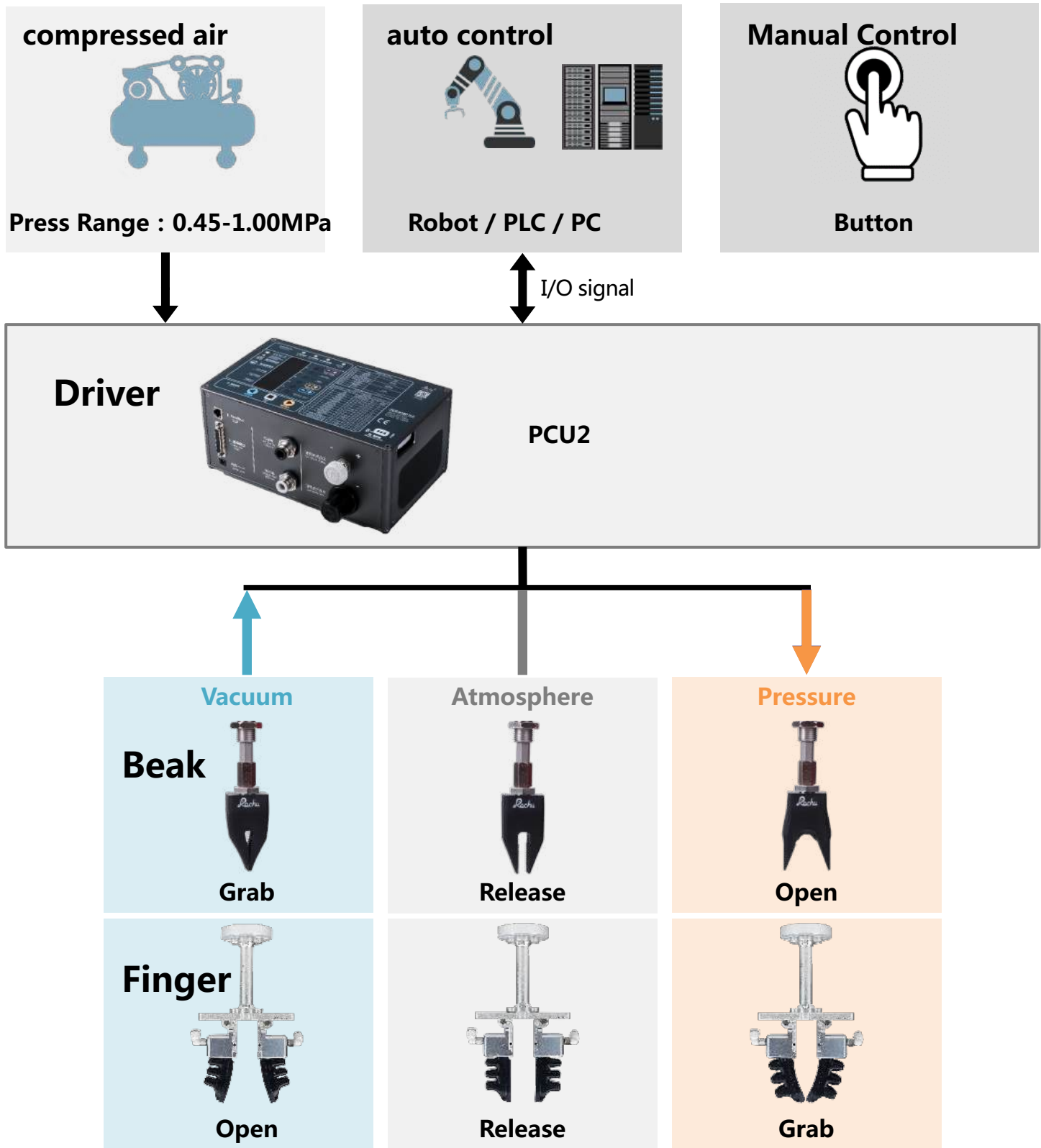
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PCU2-V Size





## How to use PCU2

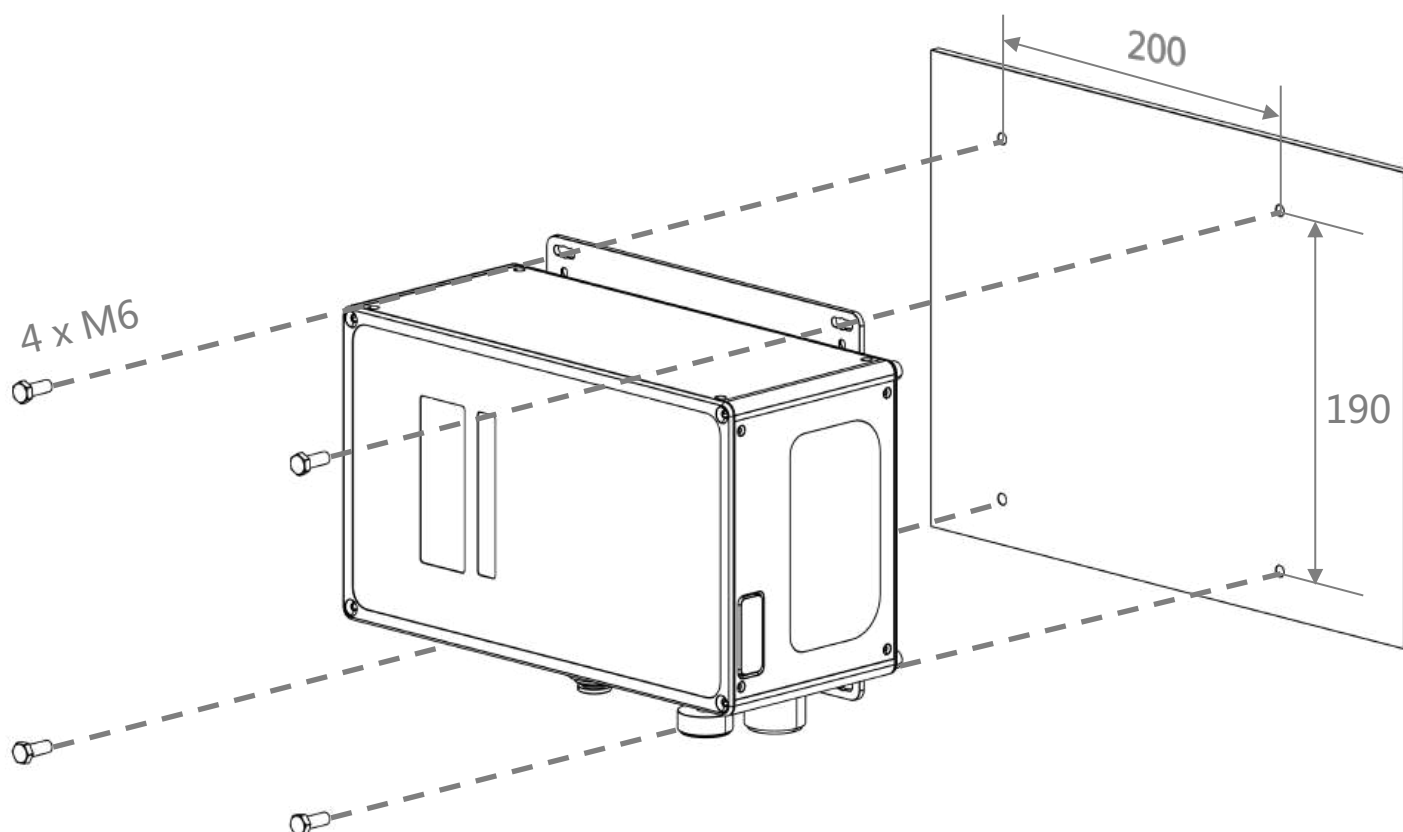


CU



## PCU2 Installation

Panel to install



CU

Control Unit



## 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	pneumatic
		Pressure Flow	165L/min*
		Vacuum Flow	55L/min

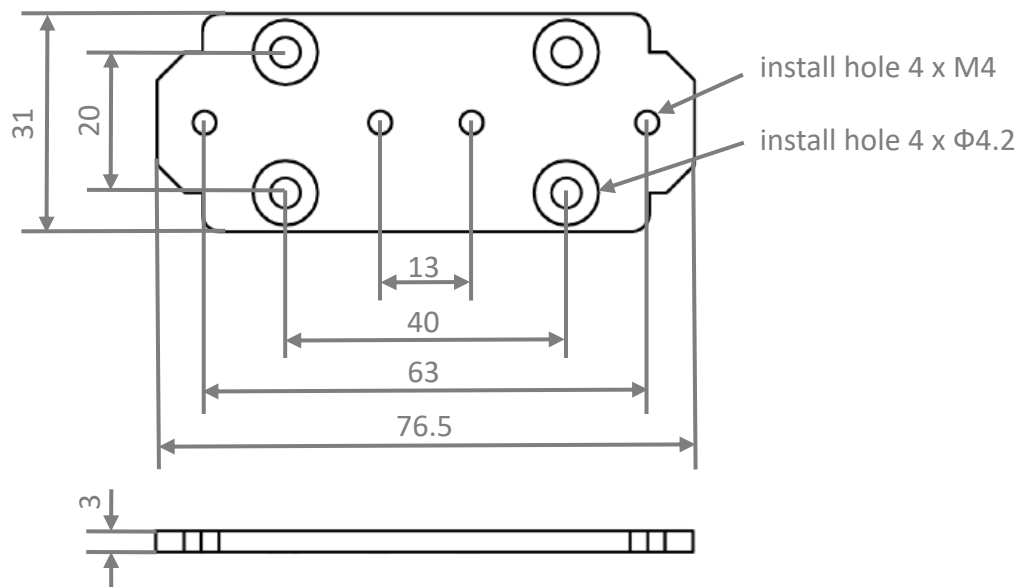
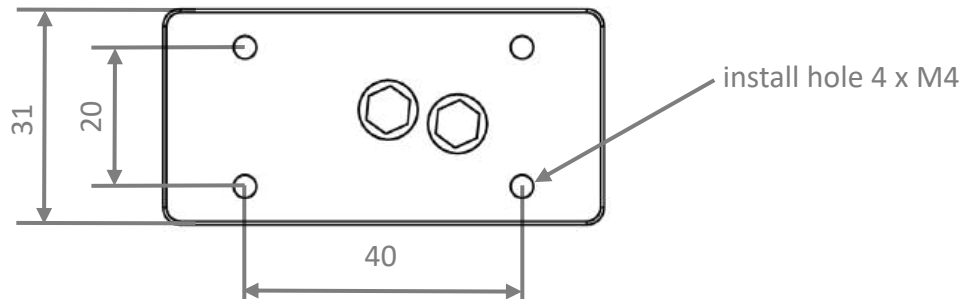
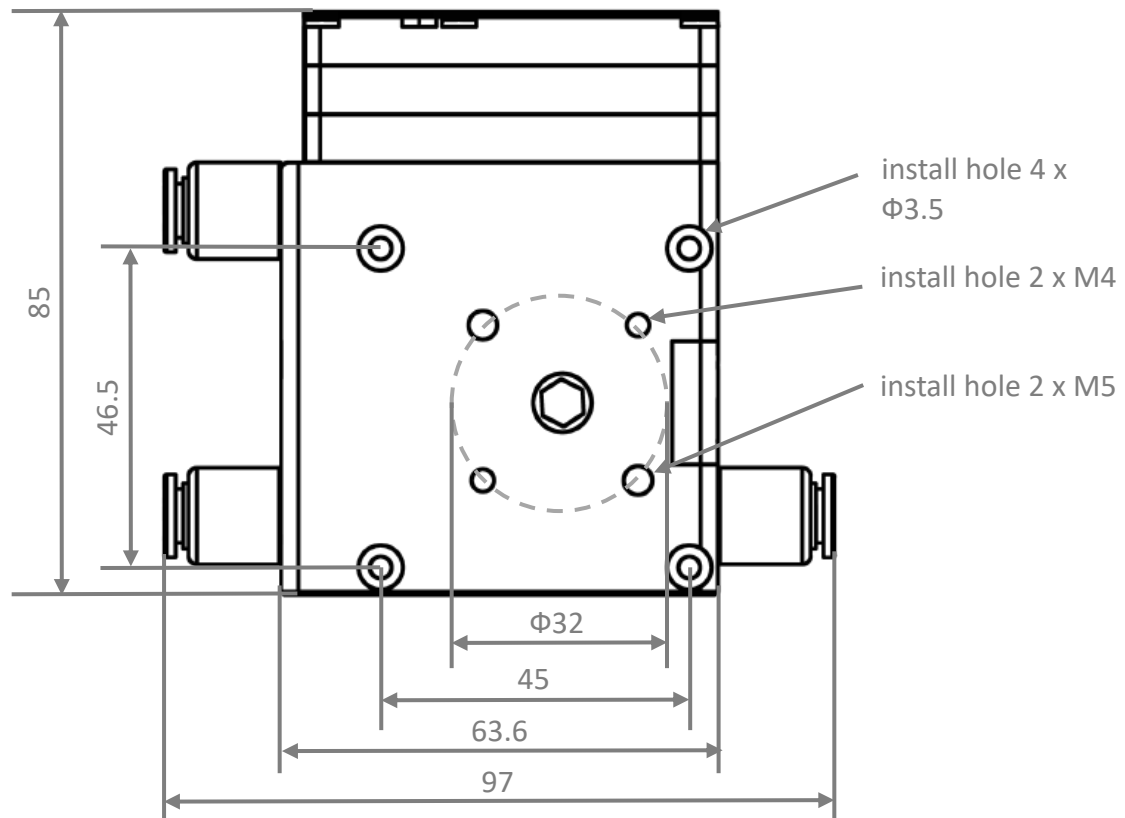
\* : The Flow Parameter test conditions are :

High pressure air source port H=0.6MPa , Low pressure air source port L=100kPa

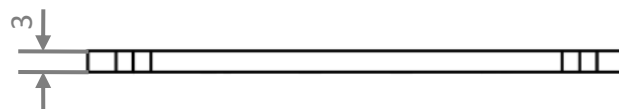


## LCU-H Size

LCU-H



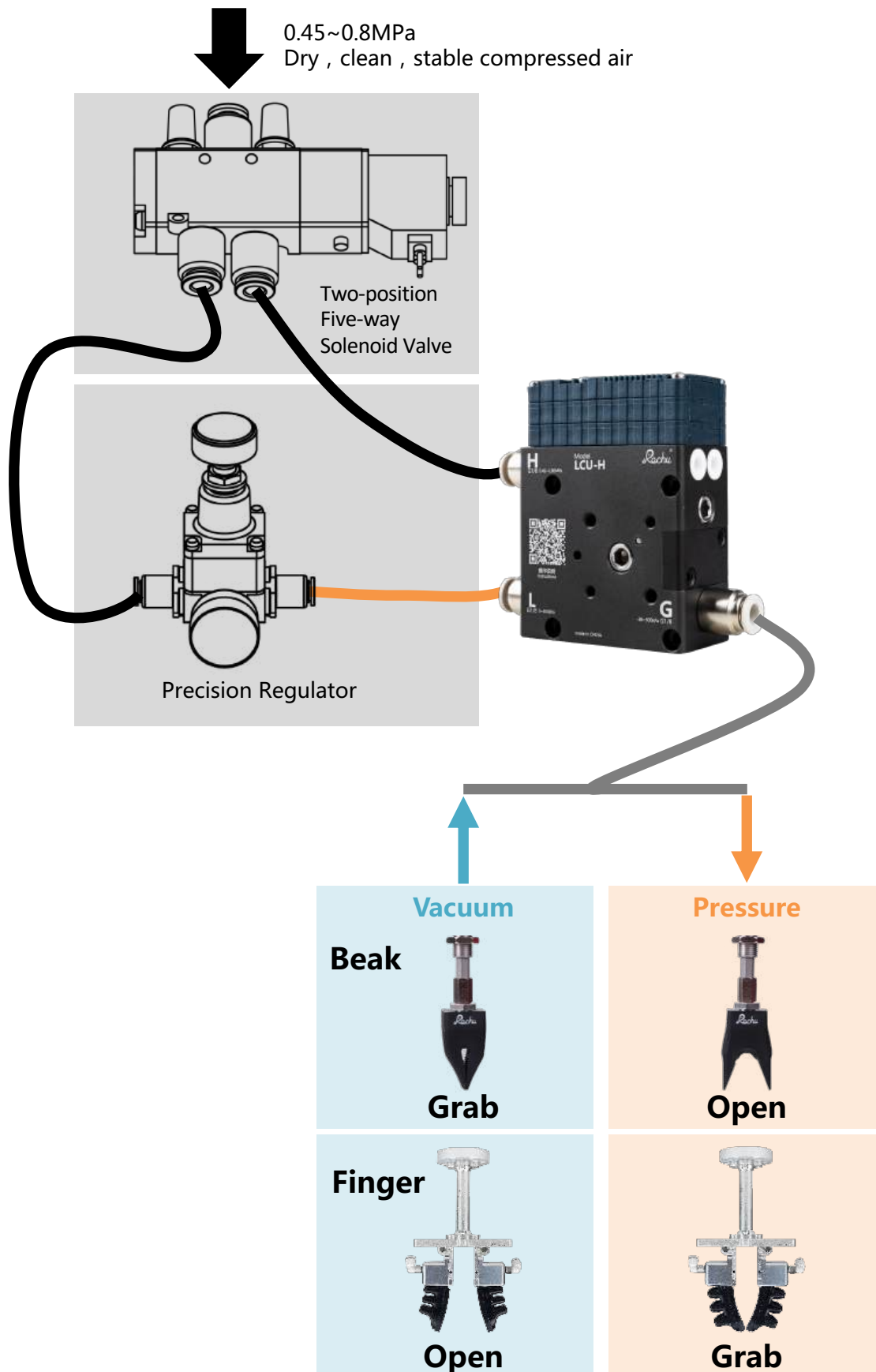
Guide rail buckle  
adapter plate







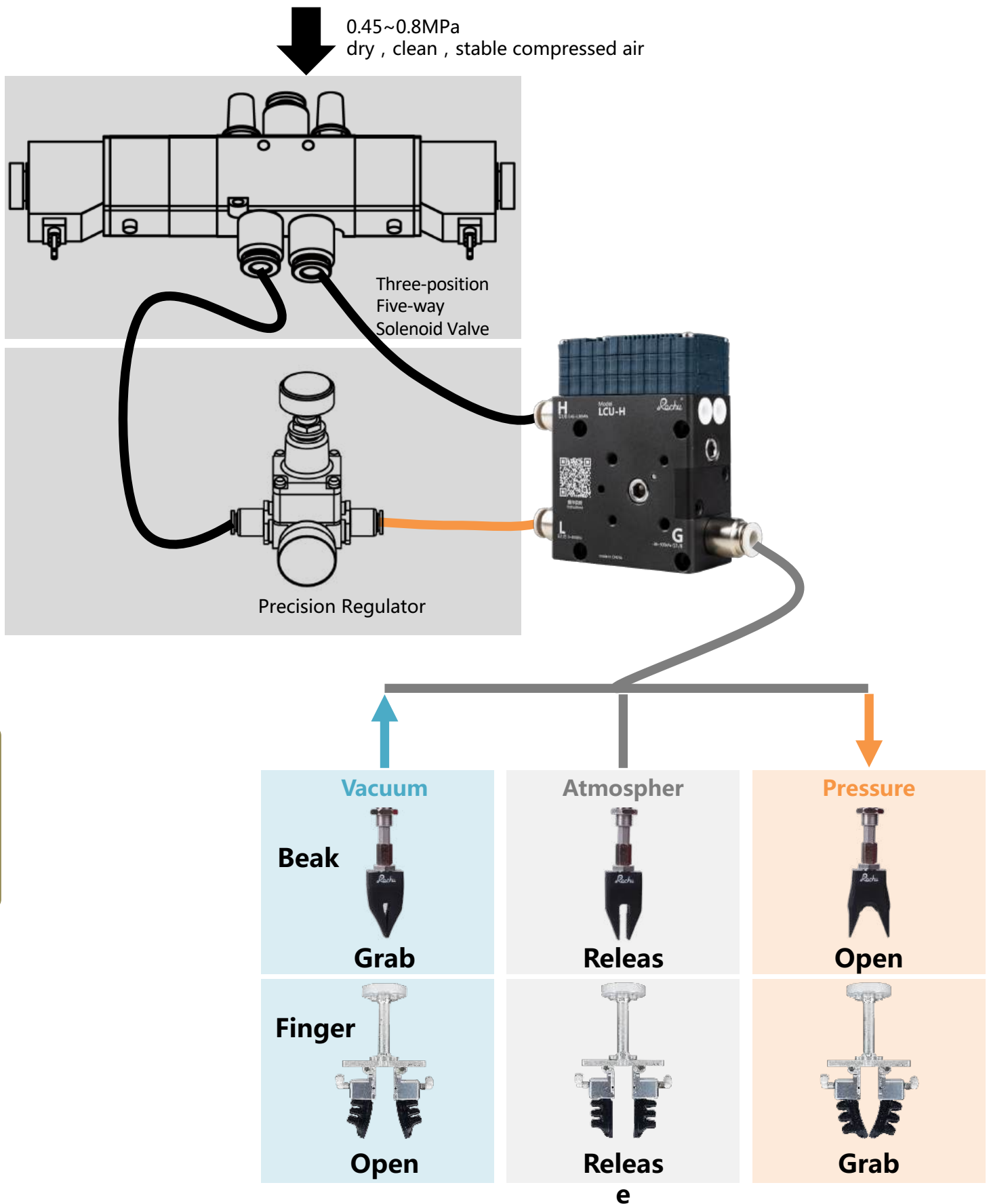
## Way 1 : Two- position Single drive



CU



## Way 2 : three-position single drive

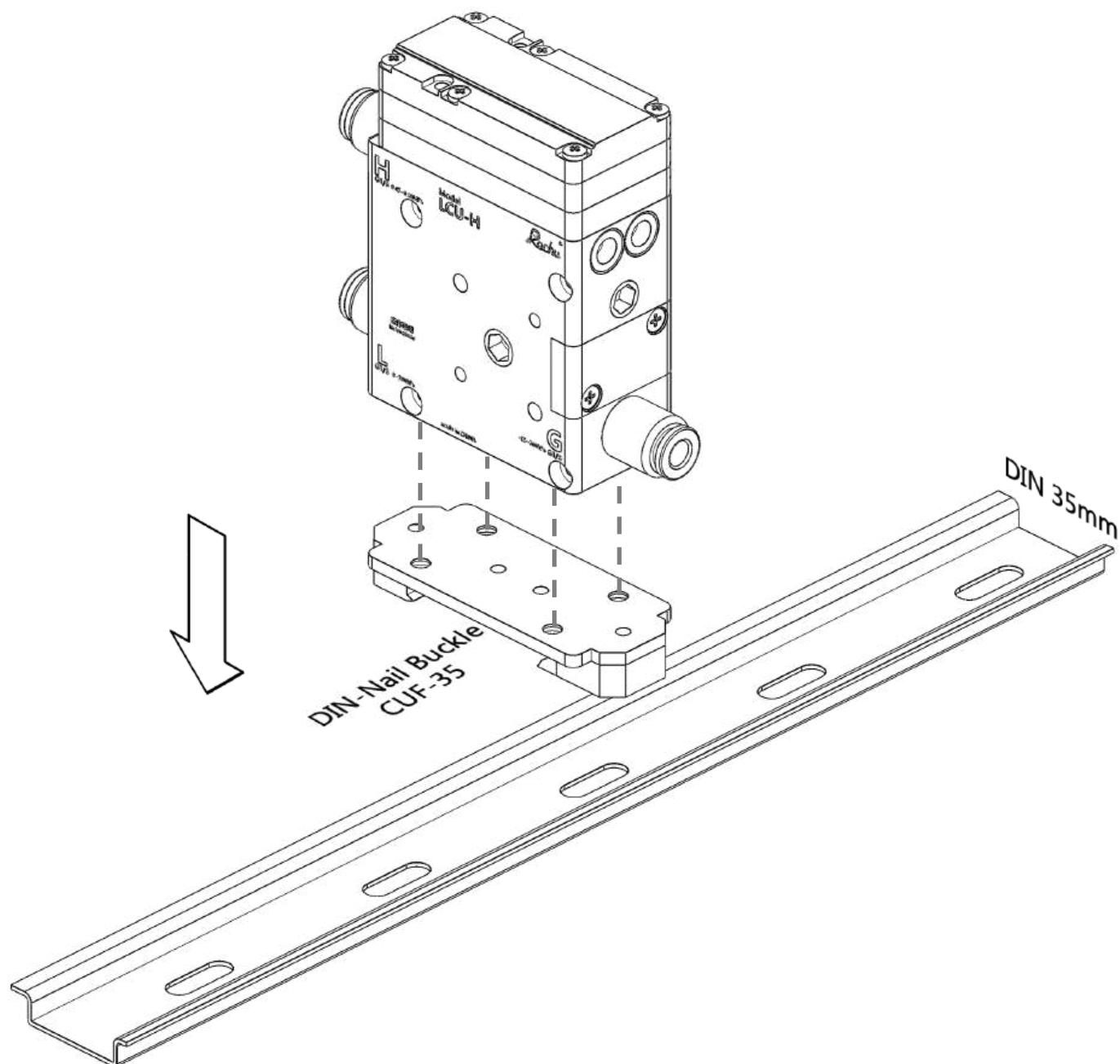






## LCU-H Installation

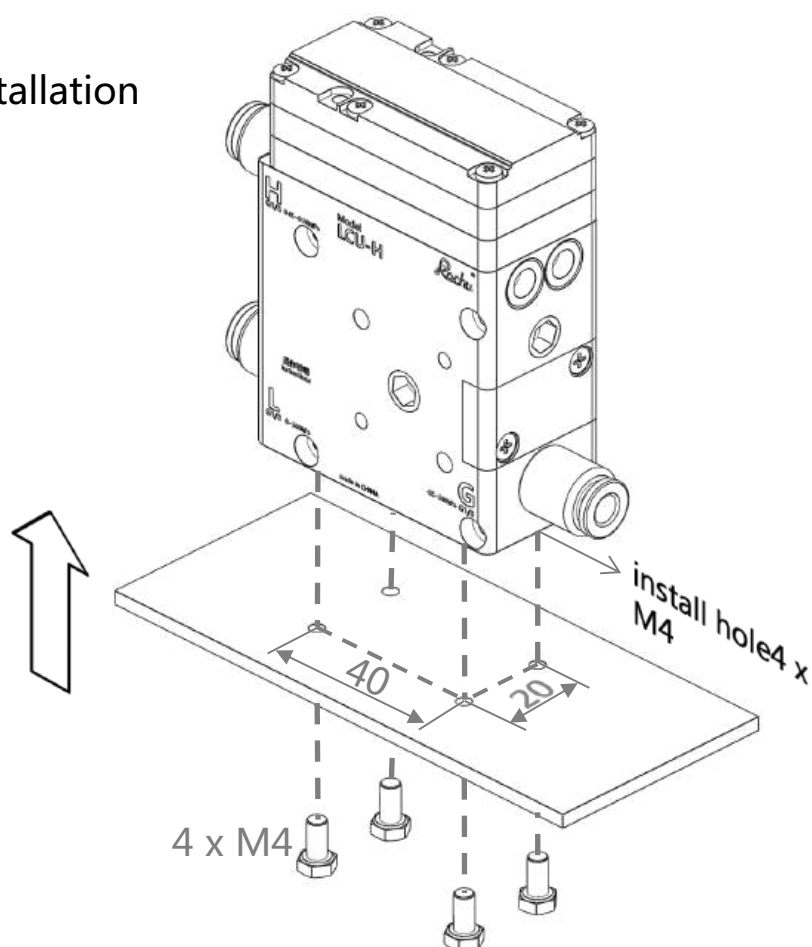
### ①DIN-Rail Installation



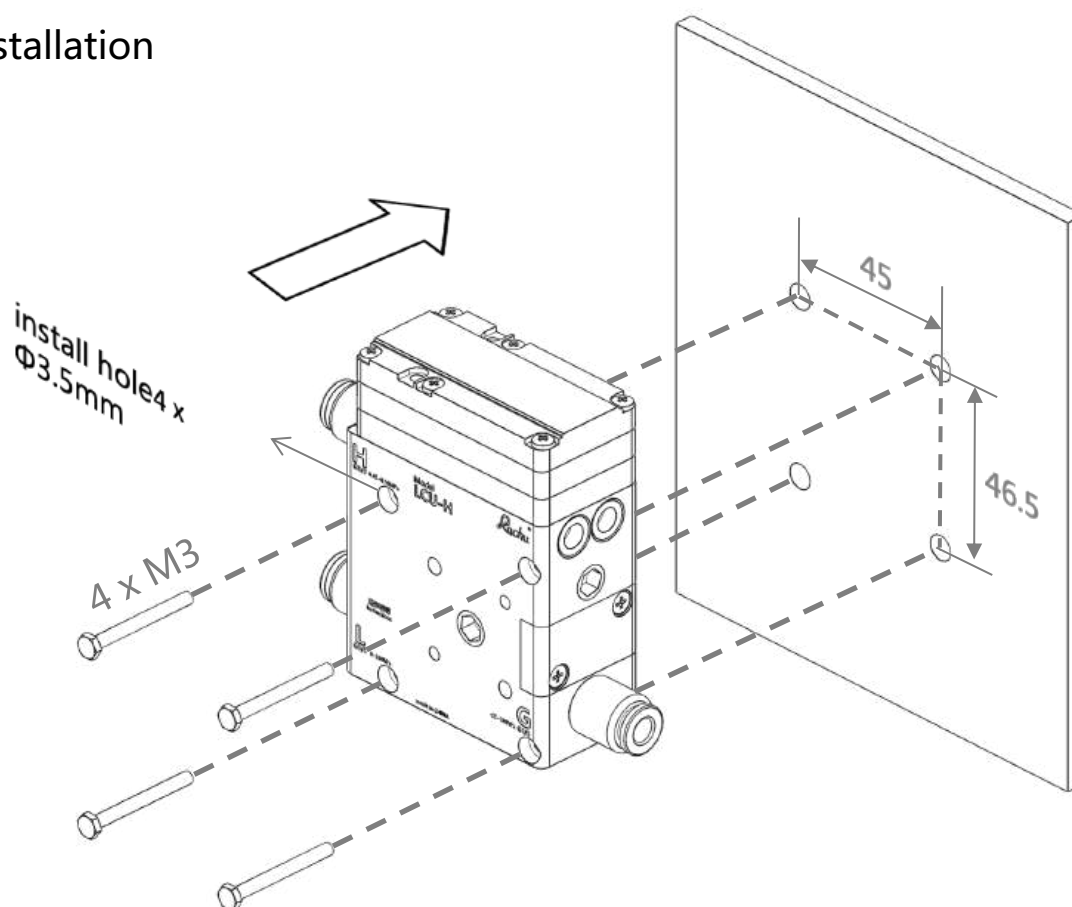


## Installation

### ② Bottom Installation



### ③ Side installation

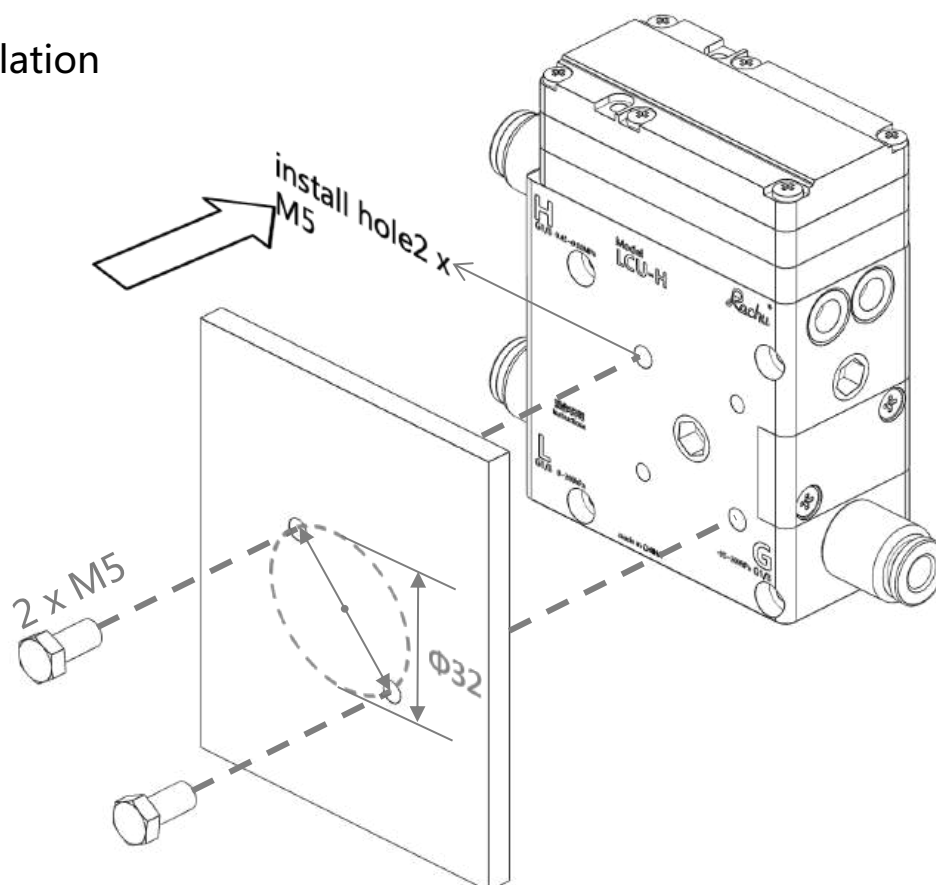


CU

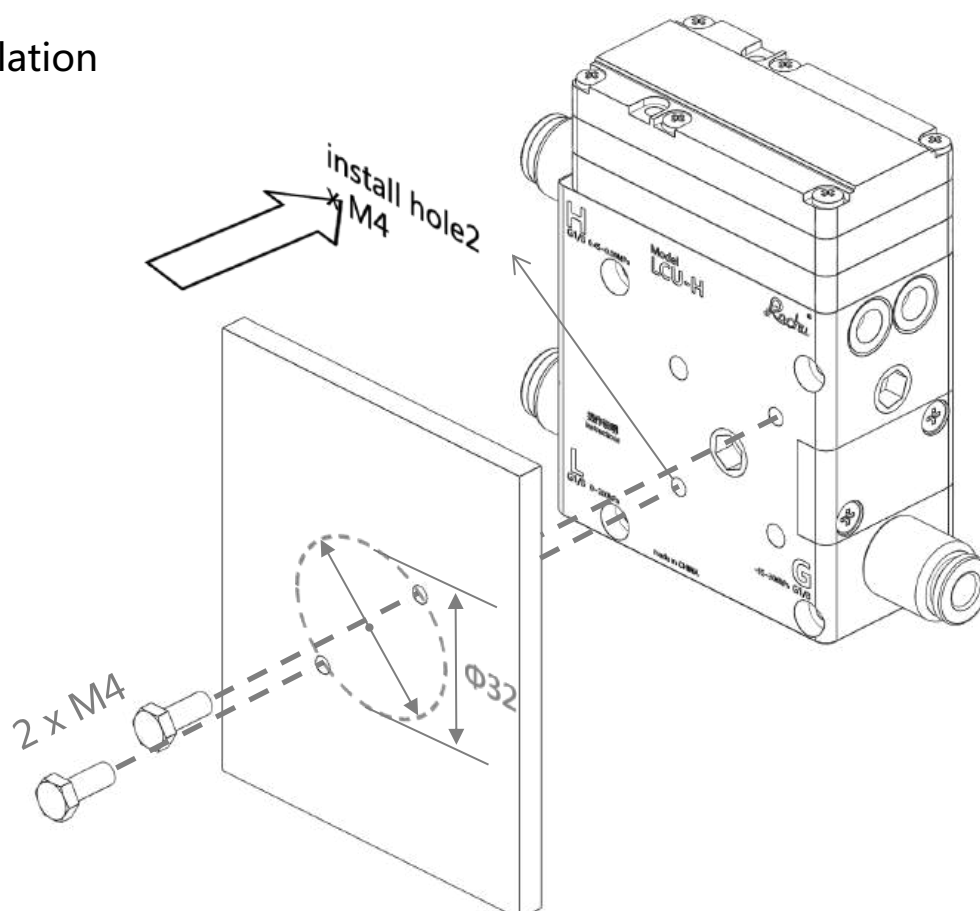


## Installation

### ④ Side Installation



### ⑤ Side Installation



CU

Control Unit

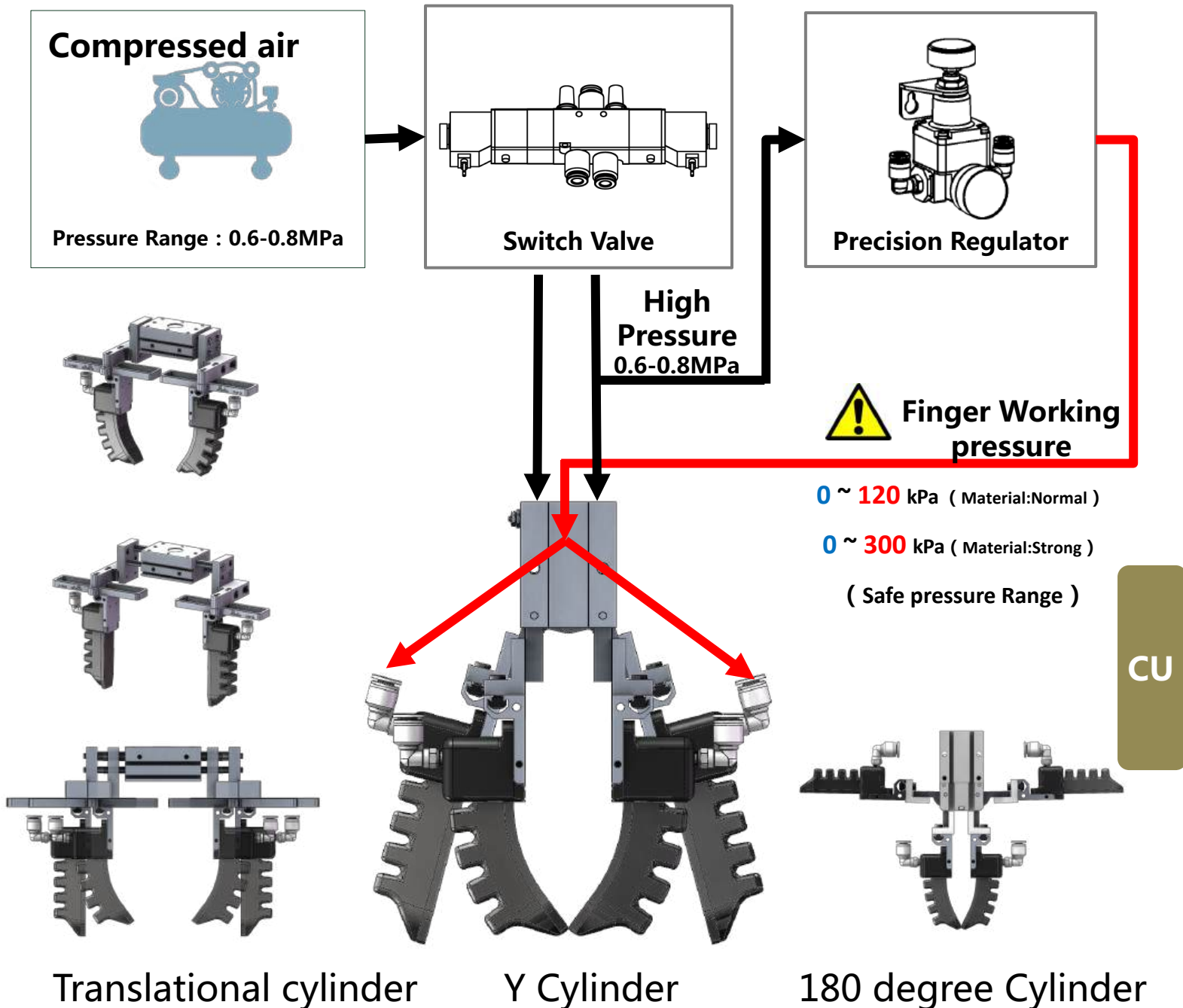




## 组合驱动方式

## Controlling of Cylinder &amp; 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



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



 <i>page. 472</i>	 <i>page. 479</i>
<b>SMP</b> Slide Mounting Plate	<b>CM</b> Connection Module
 <i>page. 481</i>	 <i>page. 486</i>
<b>FCM</b> Flange Connection Module	<b>QCM</b> Quick changer Module
 <i>page. 488</i>	 <i>page. 489</i>
<b>CP</b> Connector Part	<b>P</b> Profile

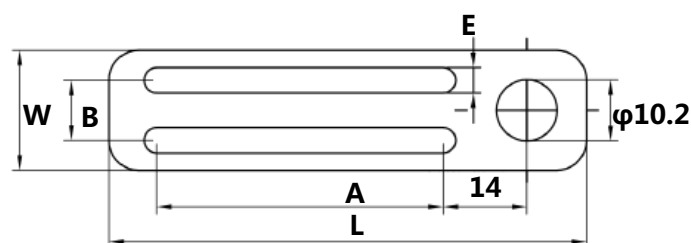
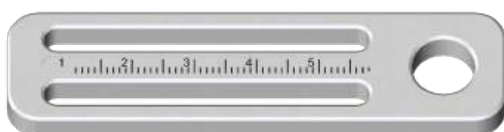
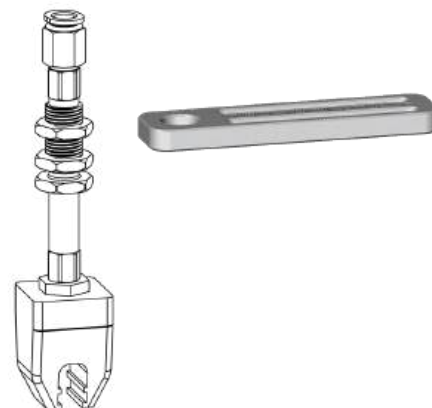


## Slide Mounting Plate

### 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]
<b>SMP-13</b>	20	10	4.2	50	20	6	10.7
<b>SMP-14</b>	48	10	4.2	80	20	6	16.2
<b>SMP-15</b>	80	10	4.2	110	20	6	21.6
<b>SMP-16</b>	110	10	4.2	140	20	6	27.1

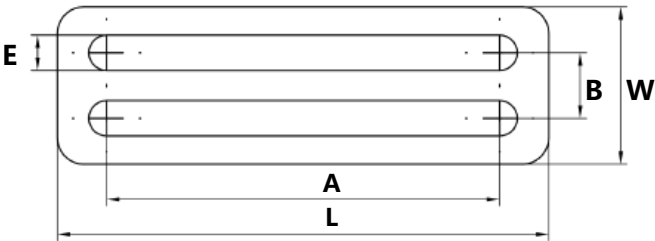
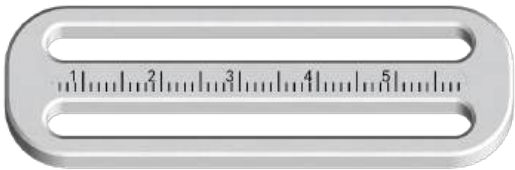
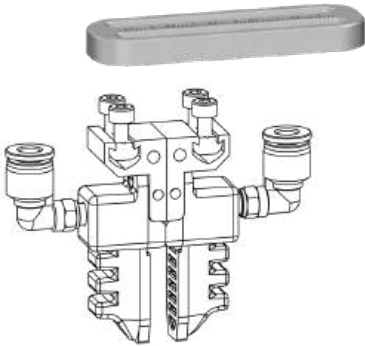


Slide Mounting Plate/ Slide Mounting Plate

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 )

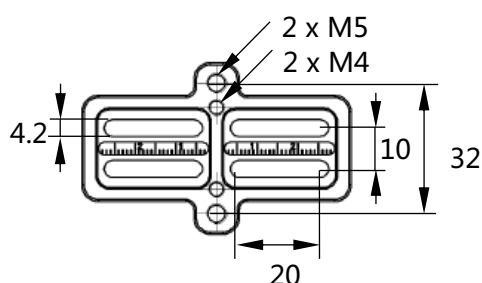
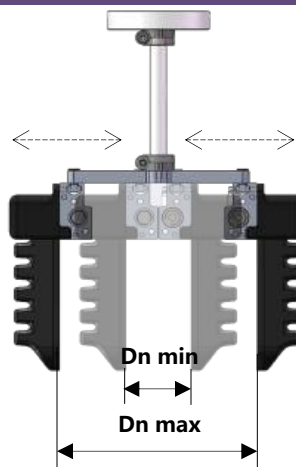
Model	Slot Length A [mm]	Slot Space B [mm]	Slot Width E [mm]	Length L [mm]	Width W [mm]	Thickness [mm]	Weight [g]
SMP-01	50	10	4.2	65	20	6	10.8
SMP-02	75	10	4.2	90	20	6	16.1
SMP-03	100	10	4.2	115	20	6	18.5



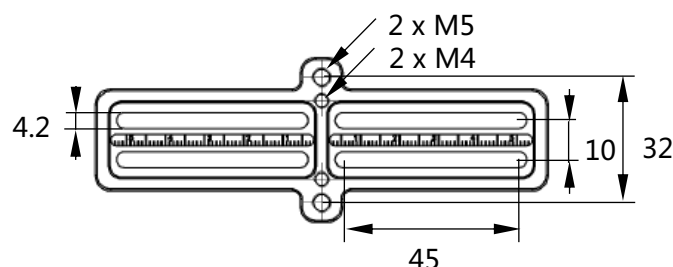
### SMP-Multidirection series

#### 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	<b>SMP-2S</b>	8	40~69	10~37	18.2
	<b>SMP-2L</b>	8	40~119	10~87	28.2

\* : Maximum gripping range of gripper combination  $G_{max} = Dn_{max} + 2H_{max}$ . For  $H_{max}$ , please refer to the Finger Module parameter page.



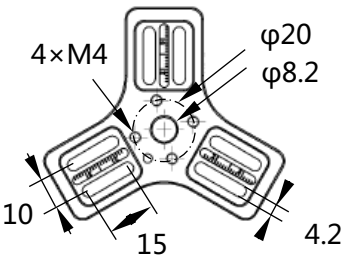
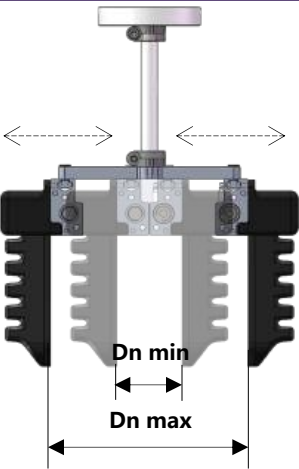


Scan to watch videos

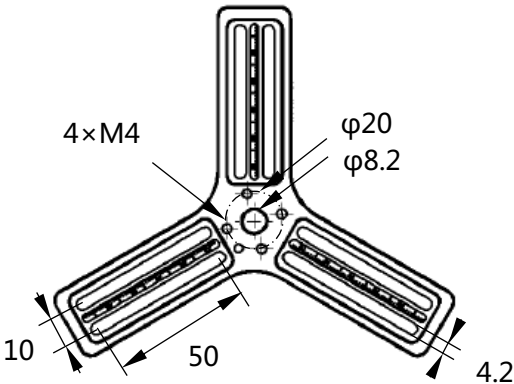
SMP-Multidirection series

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

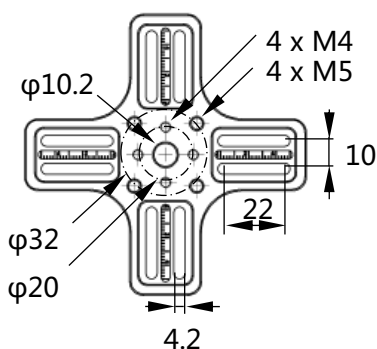
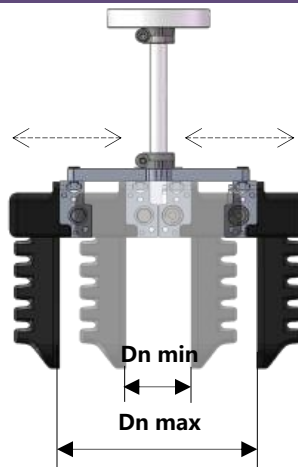
\* : Maximum gripping range of gripper combination  $G_{max}=Dn_{max}+2H_{max}$ . For  $H_{max}$ , please refer to the Finger Module parameter page.



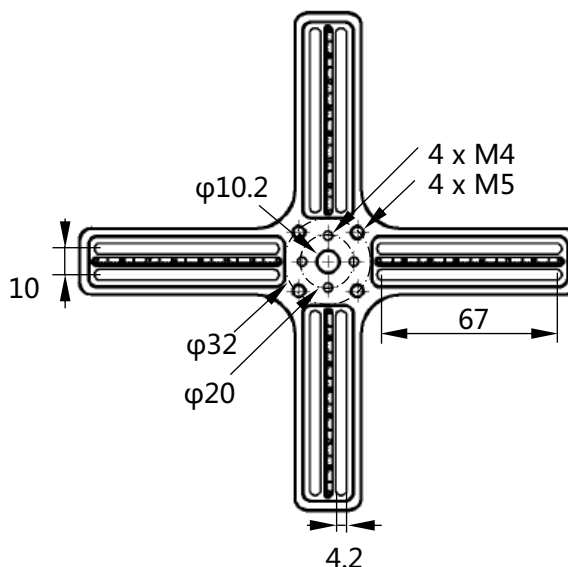
### SMP-Multidirection series

#### 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-4S**



**SMP-4L**

	Model	Thickness [mm]	AtmosphereFingertip DistanceDn [mm] Dnmin~Dnmax		Weight[g]
			V2,V4Finger Module	V3,V5Finger Module	
Four-way	<b>SMP-4S</b>	8	72~104	41~72	55
	<b>SMP-4L</b>	8	72~194	41~162	89.5

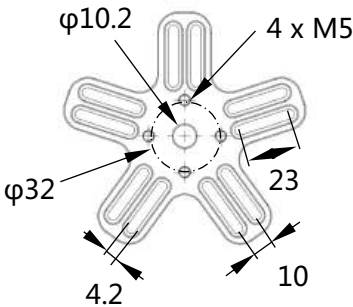
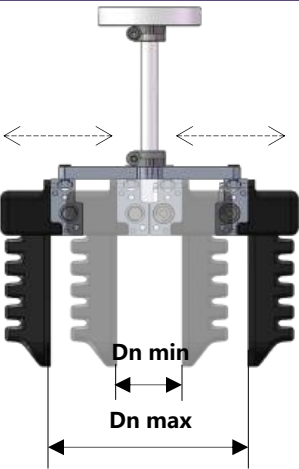
\* : Maximum gripping range of gripper combination  $G_{max} = D_{nmax} + 2H_{max}$ . For  $H_{max}$ , please refer to the Finger Module parameter page.



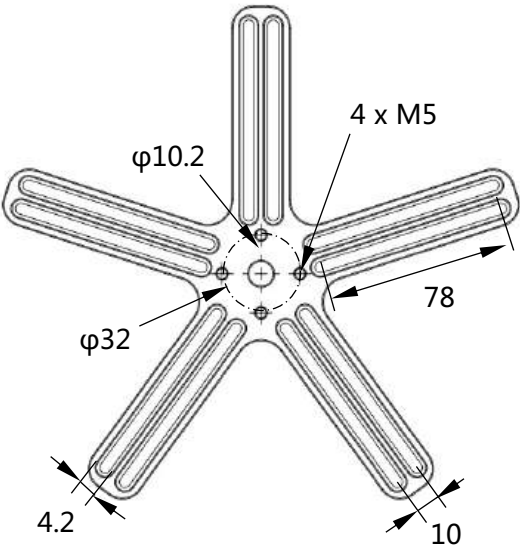
SMP-Multidirection series

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

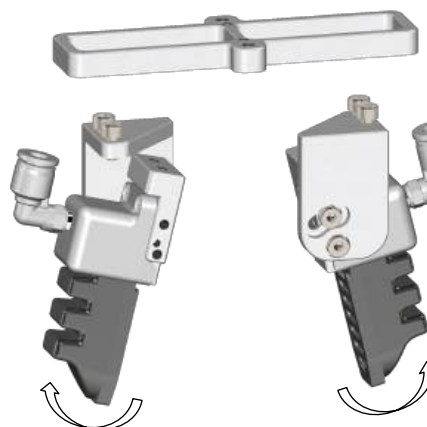
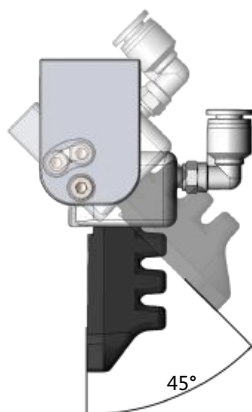
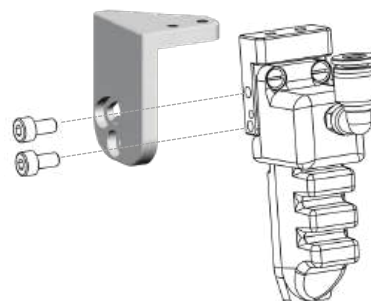
\* : Maximum gripping range of gripper combination  $G_{max}=D_{nmax}+2H_{max}$ . For  $H_{max}$ , please refer to the Finger Module parameter page.



## 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

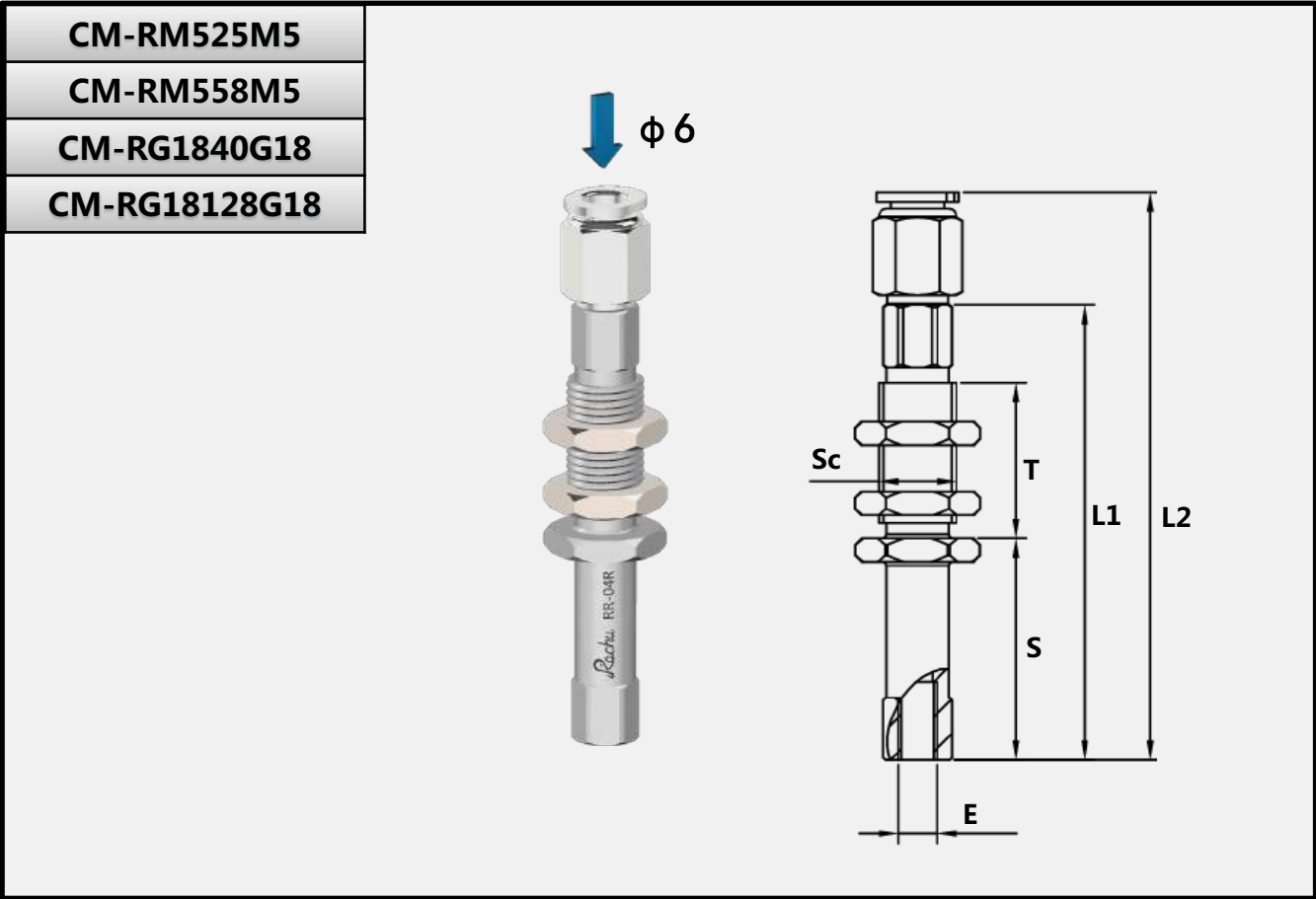
Model	Angle range[°]	Adaptive soft finger module[FM]					Weight [g]
		V1	V2	V3	V4	V5	
CP-ACA	0~45		√	√			22
CP-ACB	0~45		√	√			19
CP-ACC	0~45			√			15



CM -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].



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

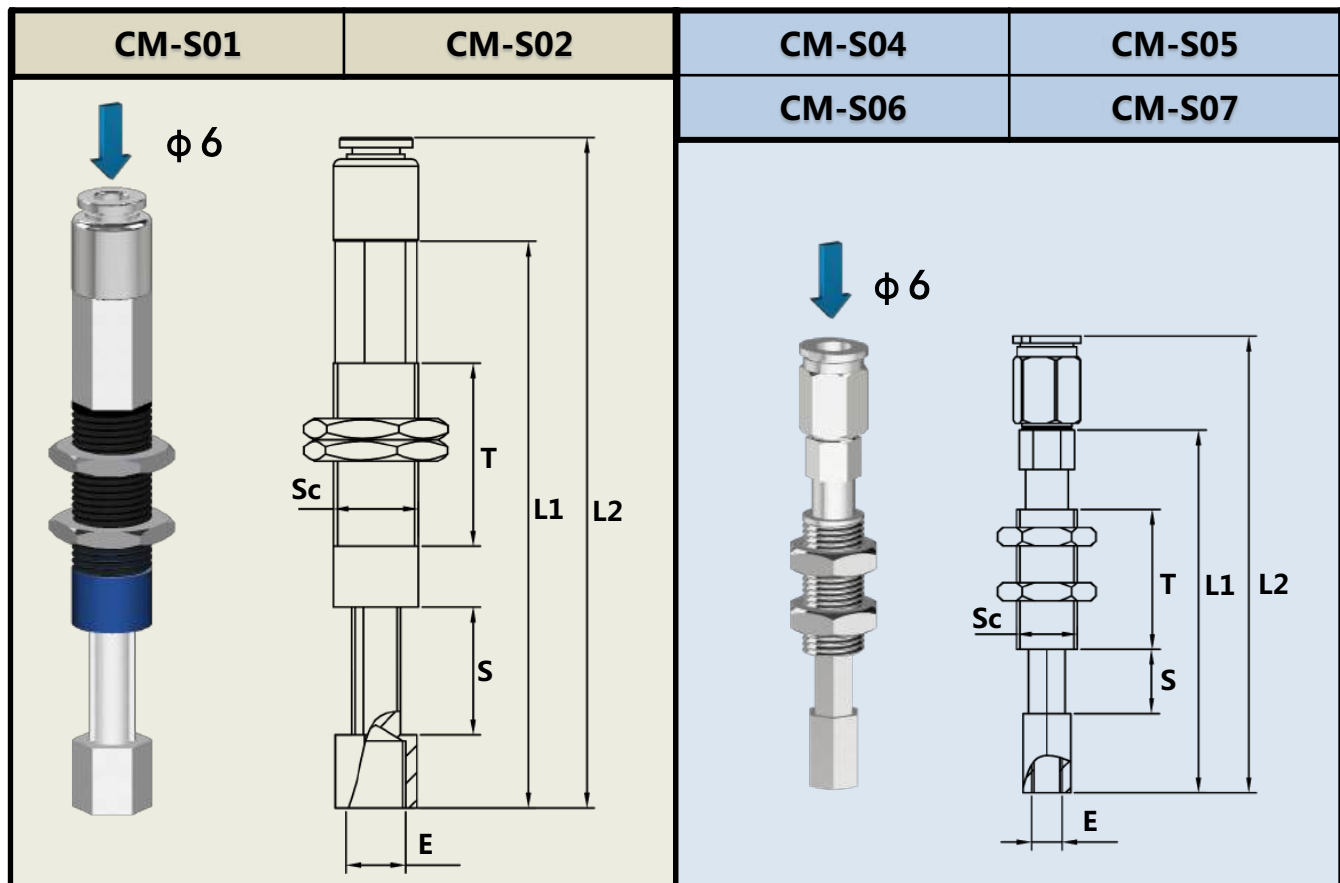
CM



## 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 Models can be installed with **Slide Mounting Plate[SMP]**



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



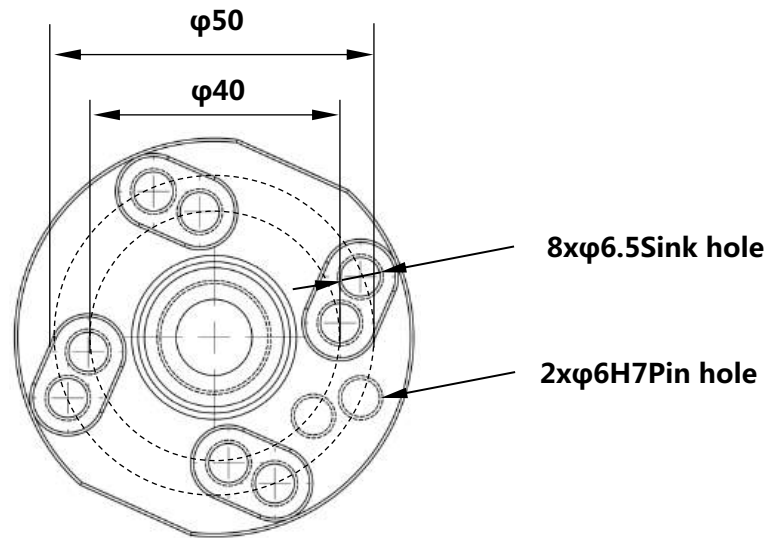


- **Flange connection module [FCM]** is fixed between the robot flange and the **slip mounting plate [SMP]**. It can also be connected with **quick change module [QCM]**, There are two kinds of [FCM], the spring rod type (S) and rigid rod type (R).

## FCM-S01 Sping rod flange connection module

### Product features

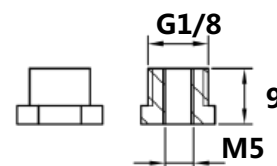
- Meet ISO 9409-1:2004 robot flange standard
- Robot connection with the soft beak module [BM], or light soft grippers. The max. loading is 500g.
- Better adaptability in gripping of very different size object .
- For better positioning, pls. use the [FCM] with rigid rod.
- Accessory package (PK-FCMS01) included



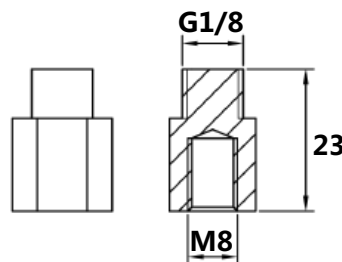
Weight 125g Elastic Force 0~8N

### Accessory package PK-FCMS01

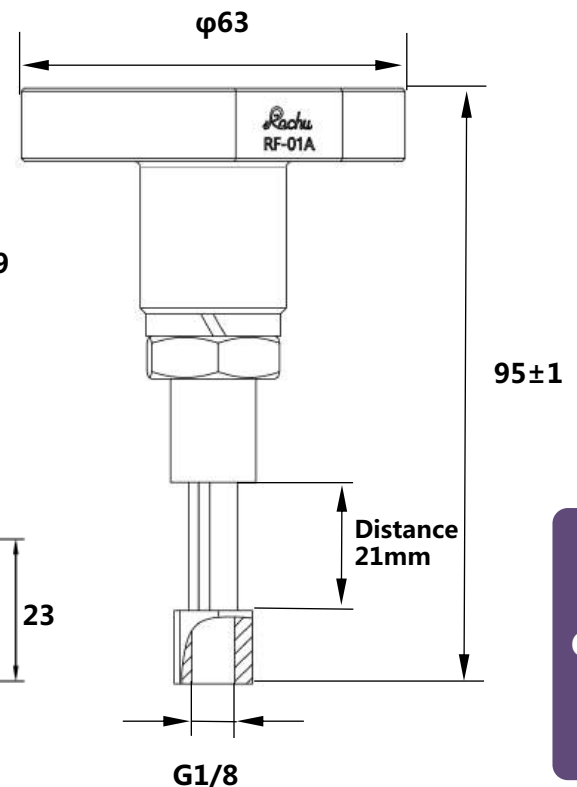
- 1 x CP-006
- 1 x CP-007
- 1 x SF-083 ( M8x10 )
- 4 x SF-011 ( M6x10 )
- 4 x SF-007 ( M5x12 )



CP-006



CP-007



CM



## FCM-R(01~05) Fixed rod type flange connection module (light)

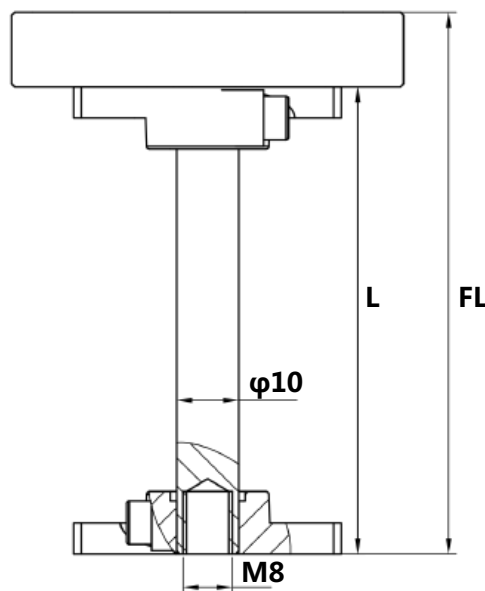
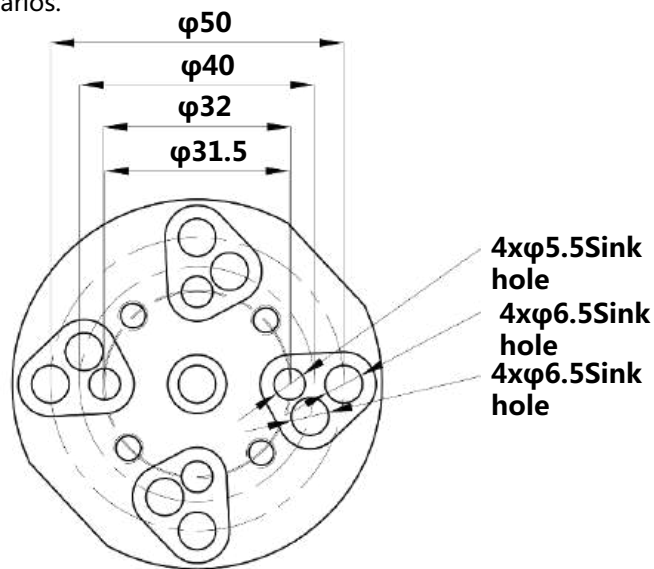
### Product features

- 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.



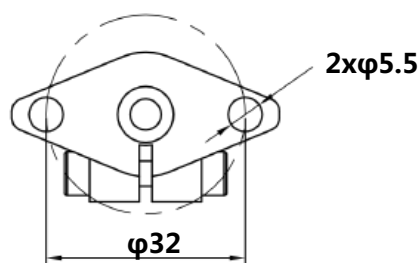
### Accessory package PK-FCMR01

- 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





## Flange connection

### FCM-R08 Fixed rod type flange connection module

#### Product features

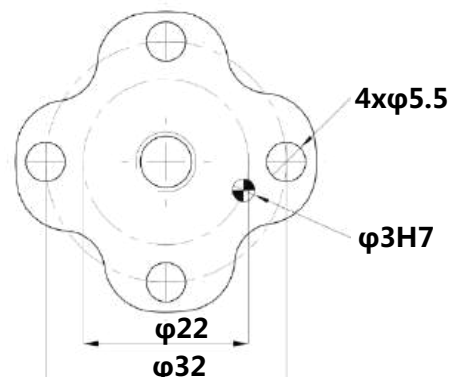
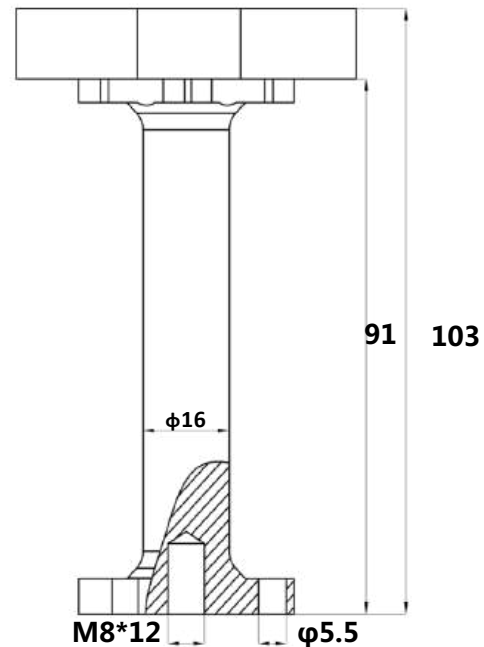
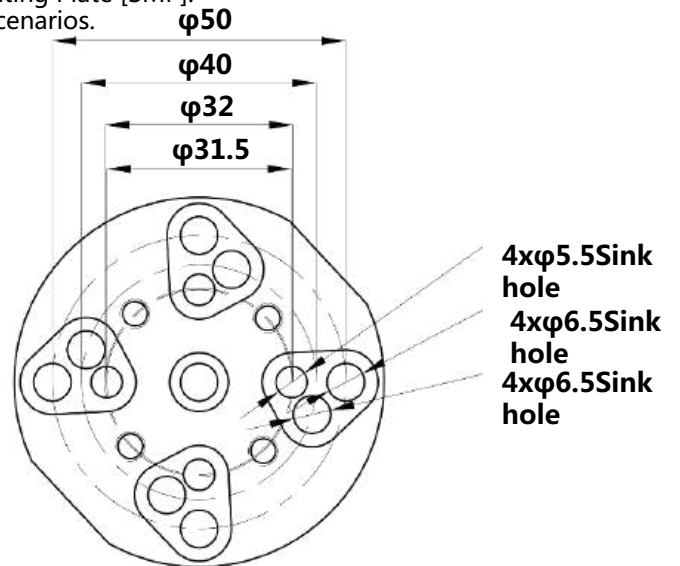
- Conform to ISO 9409-1:2004 standard (GB/T 14468.1-2006/), suitable for most robot flanges in the market.
- Suitable for non-standard gripper combination and Slide Mounting Plate [SMP].
- Can be used for high-precision handling, assembly and other scenarios.
- Accessory package PK-FCMR08 included.



Weight 159g

#### 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 (  $\phi 3 \times 10$  )

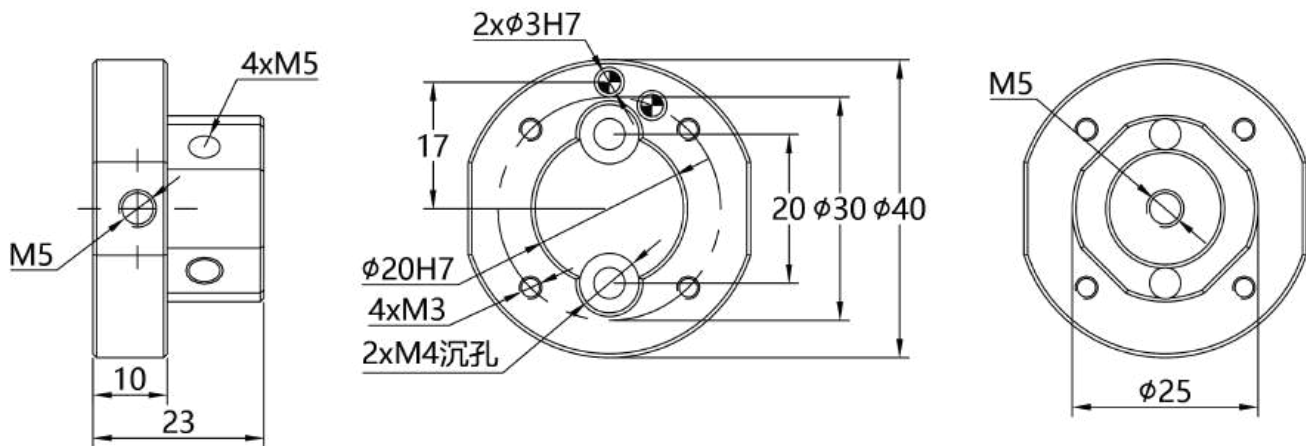




## Connector Part






### CP-191 Connecting flange

- Internal multi-channel ventilation manipulator adapter flange

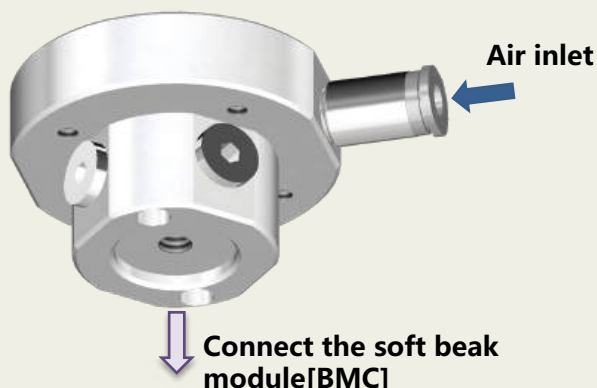


Weight 65g

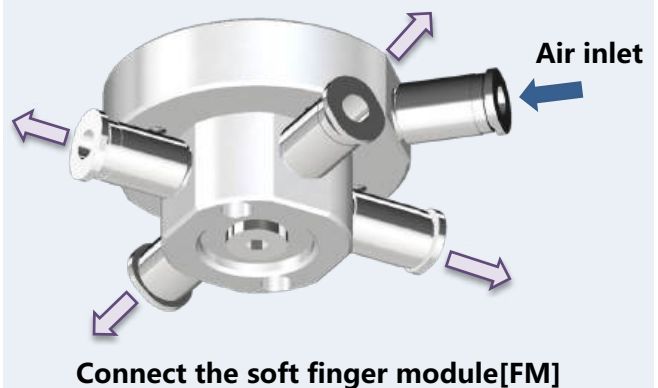
#### Accessory package PK-CP191

- |  |  |
|--|--|
|  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



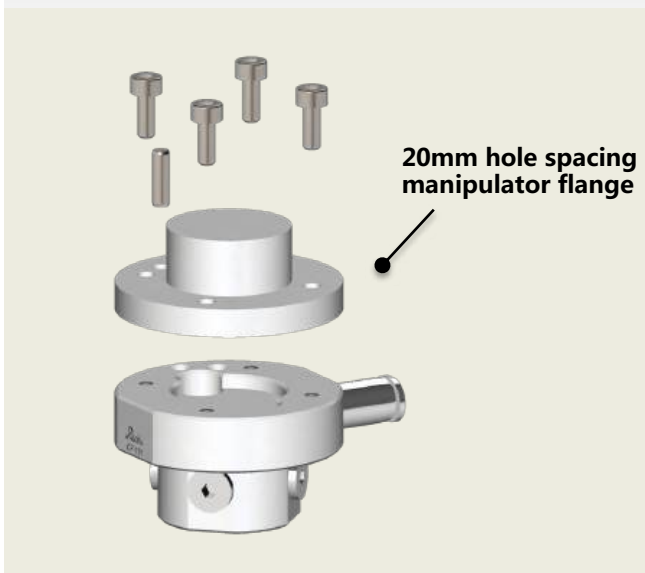


## Connector Part

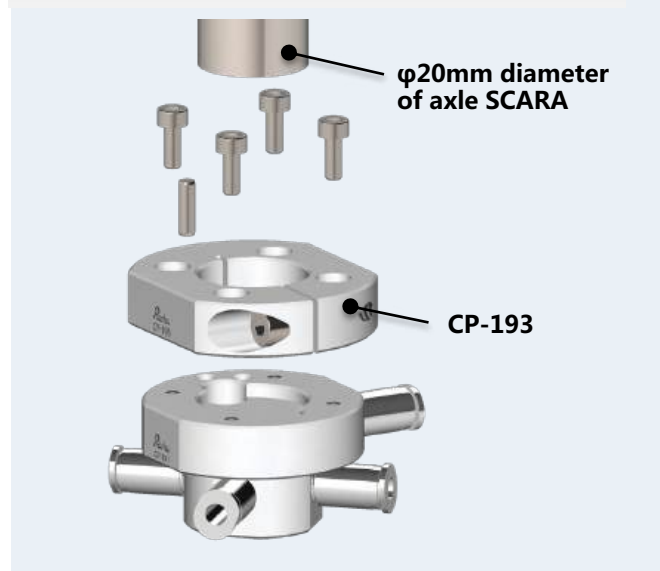
### Installation

- Suitable for 20mm hole spacing manipulator flange or  $\phi 20\text{mm}$  shaft diameter SCARA manipulator end.
- Assembling **soft beak module [BMC]** or **Slide Mounting Plate[SMP]**

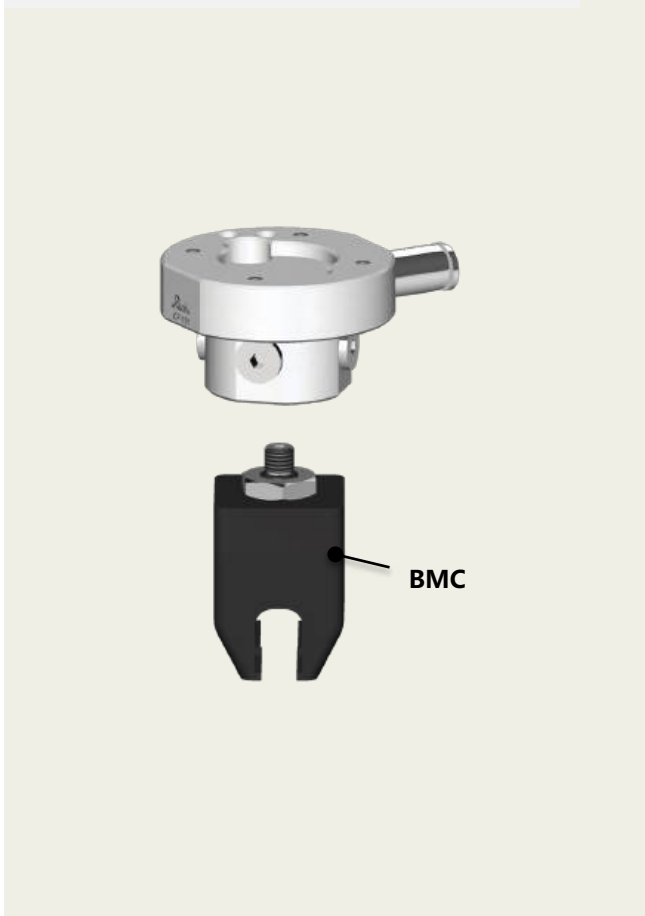
#### 20mm hole spacing manipulator installation



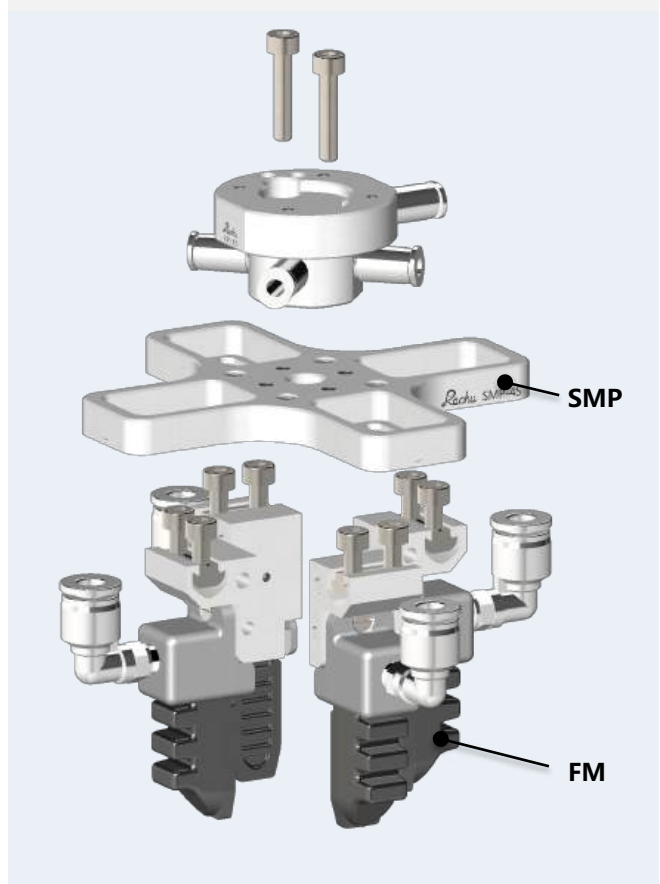
#### $\phi 20\text{mm}$ shaft diameter SCARA Installation



#### Soft beak module [BMC] installation



#### Slide Mounting Plate[SMP]&Soft finger module [FM] installation







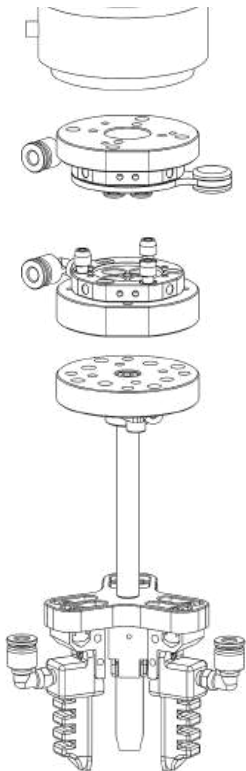
## Quick changer Module

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

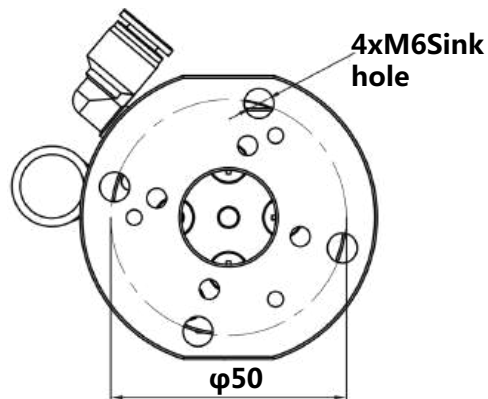
#### Product features

- Conform to ISO 9409-1:2004 (i.e. GB / T 14468.1:2006).
- Manual locking/unlocking.
- Recommended Load 5kg , Vertical tension.



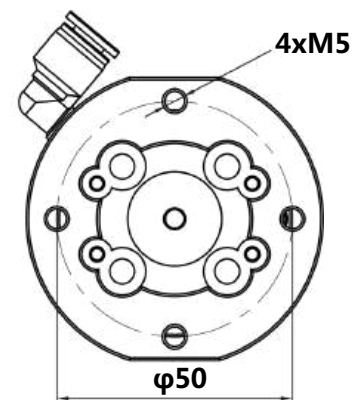
#### QCM-01R

( R side module, installed at the end of the manipulator )



#### QCM-01G

( G side module, mounted on the gripper end )



Lock Max 2Nm



QCM-01R Weight [g]	146	QCM-01G Weight [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]		





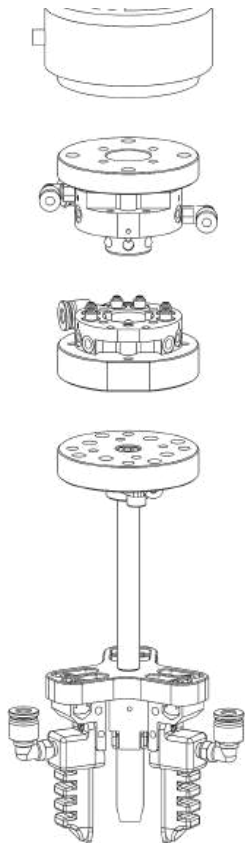
## Quick changer Module

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.

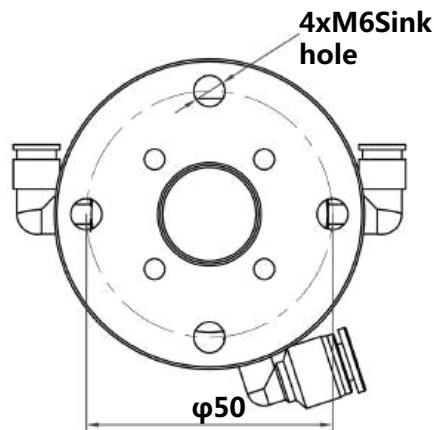


#### QCM-02R

( R side module, installed at the end of the manipulator )



Weight 320g

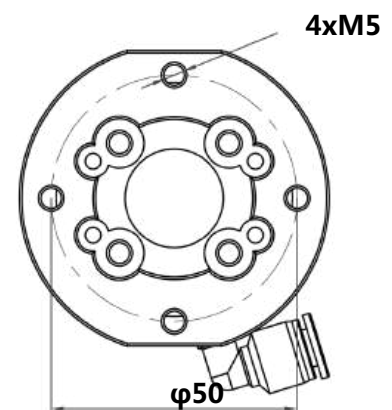


#### QCM-02G

( G side module, mounted on the gripper end )



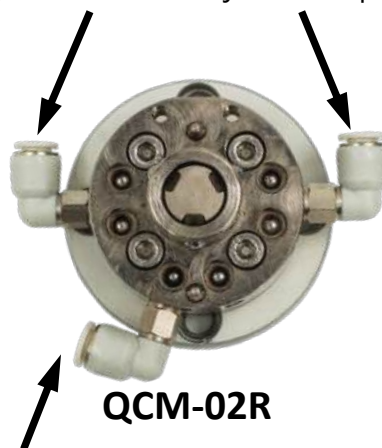
Weight 200g



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.



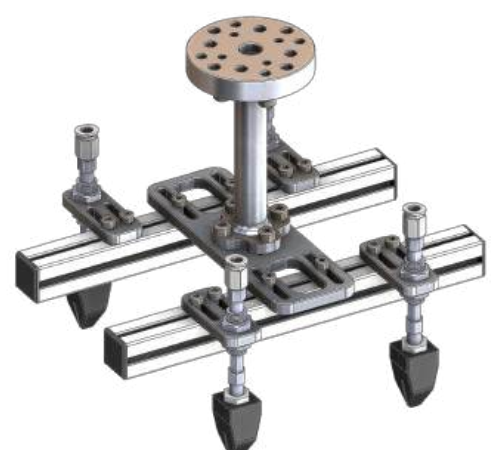
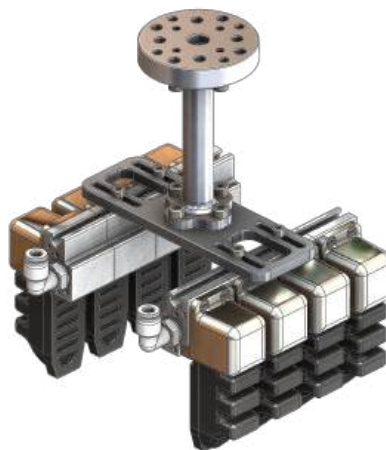
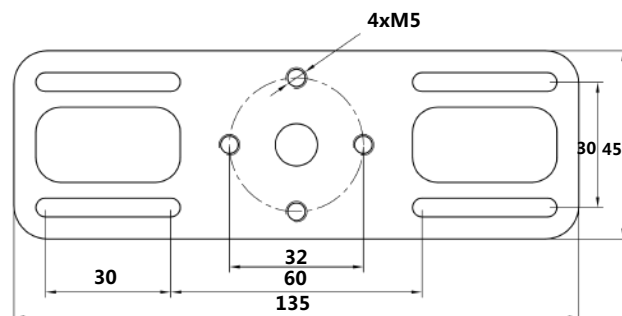
Weight 65g

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.



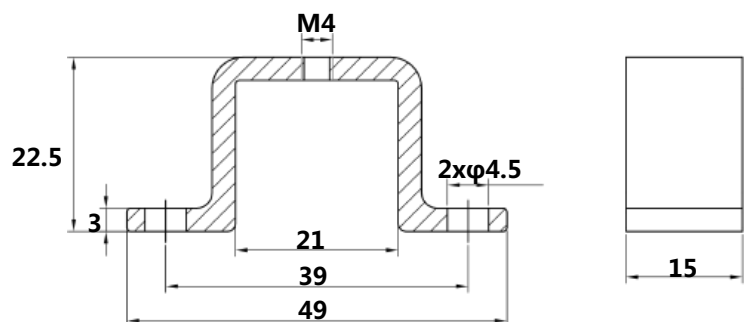
Weight 10g

Accessory package PK-CP01



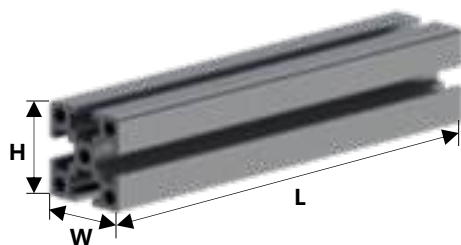
2 x SF-081 ( M4 )

2 x SF-075 ( M4x12 )





## Profile



Model	Length L [mm]	Width W [mm]	Height H [mm]	Weight [g]
<b>P-20100</b>	100	20	20	47
<b>P-20150</b>	150	20	20	70.5
<b>P-20200</b>	200	20	20	94
<b>P-20300</b>	300	20	20	141
<b>P-20400</b>	400	20	20	188
<b>P-20500</b>	500	20	20	235



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