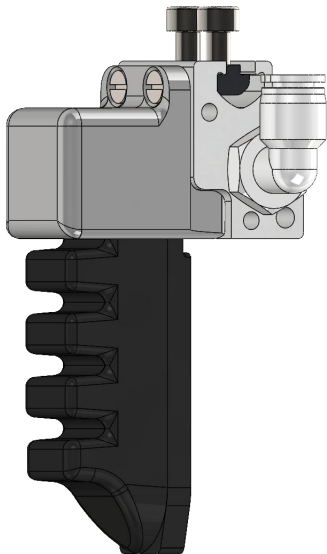




柔爪



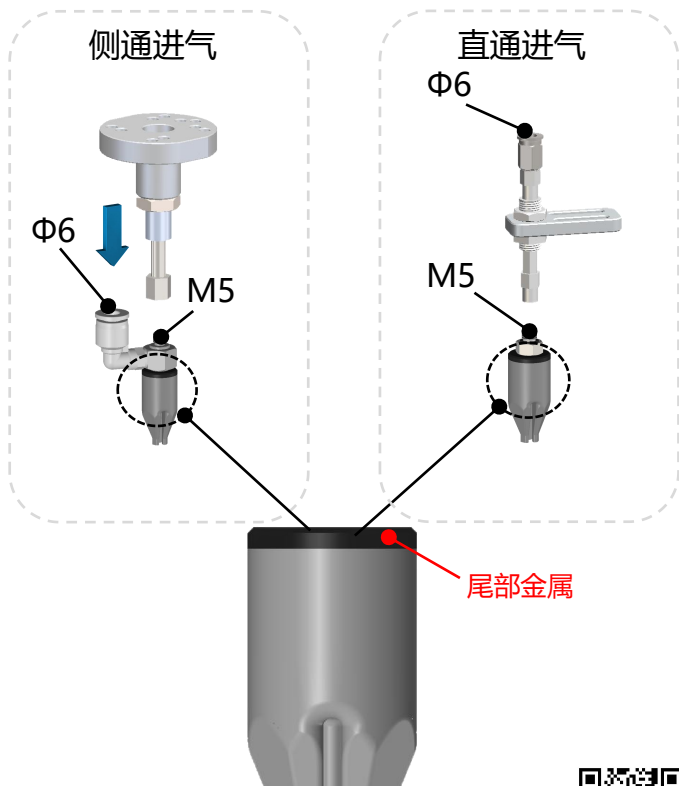
柔指

安全气压

区别于传统气缸，柔触柔指/柔爪为**低正压/真空**切换的精密气动元件。产品上的**安全气压**标识，为该款产品最大使用正压。超压工作将会对夹爪造成不可逆的损坏。使用前请务必确认安全气压，切勿超压使用。



柔爪模块组装方式



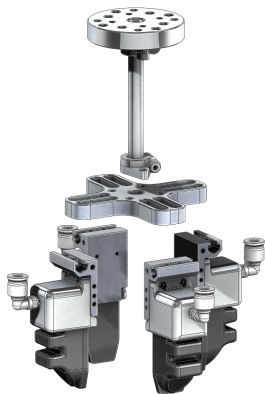
注意事项:

/S版和/M版柔爪安装时,
旋转柔爪的尾部金属部分,
请勿直接旋转胶体部分。

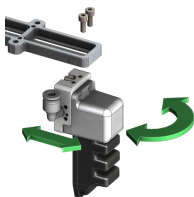


扫码看教程

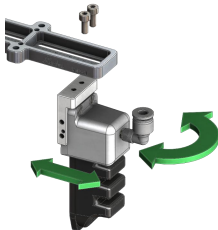
柔指模块组装方式



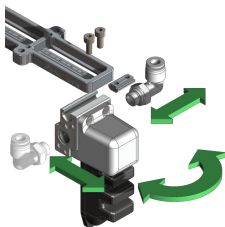
• V2



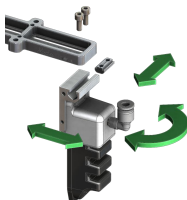
• V3



• V4

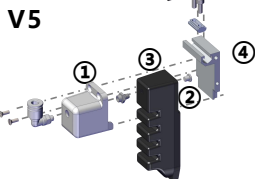
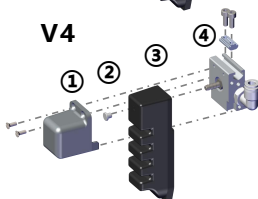
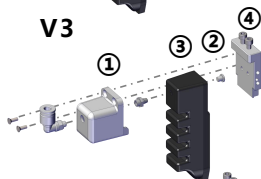
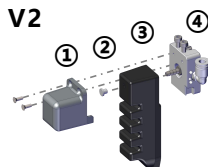
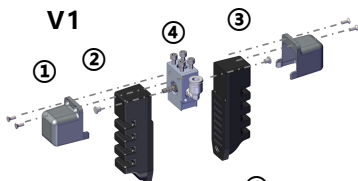


• V5



扫码看教程

柔指更换方式



备件:

- ① 罩盖
- ② 堵头
- ③ 柔触 柔指
- ④ 安装块

扫码看教程

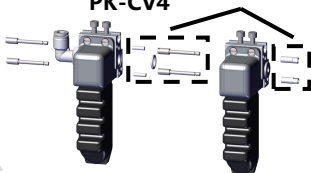


柔指模块串联组合方式

PK-AV4

PK-BV4 配件包(选配)

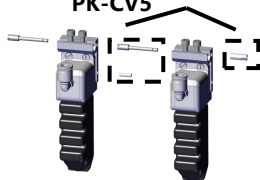
PK-CV4



PK-AV5

PK-BV5 配件包(选配)

PK-CV5



工作原理

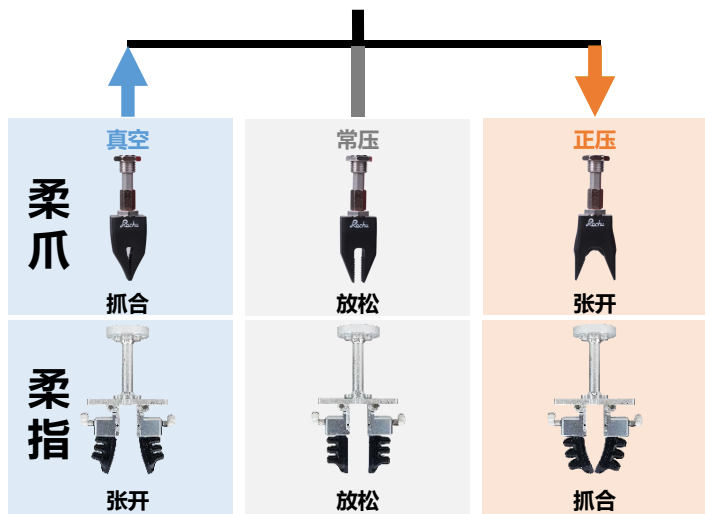
柔触柔指/柔爪采用空气驱动技术，通过正负压切换，实现柔指/柔爪的张开和闭合，从而实现柔性抓取或内撑的动作。

可通过调节正压，控制柔指的夹持力度，或控制柔爪的张开角度；

可通过调节负压，控制柔指的张开角度，或控制柔爪的夹持力度。



驱动器



装箱清单

柔指/柔爪产品若干、说明书一份。

常见问题

问题	可能原因	解决方案
夹爪夹持力不足	1. 指尖距过大	调节滑动螺丝，减小指尖距
	2. 柔指正压不足	在安全气压范围内，增大正压
	3. 柔爪真空不足	a. 检查驱动器输出真空压力值
		b. 检查气源压力及流量，保证气源压力至少0.6MPa且流量充足
	4. 管路漏气	检查管路
	5. 夹爪破损/漏气	检查/更换夹爪
	6. 夹爪选型或排列不当	咨询销售顾问更换夹爪型号
夹爪张开角度小	1. 柔指真空不足	a. 检查驱动器输出真空压力值
		b. 检查气源压力及流量，保证气源压力至少0.6MPa且流量充足
	2. 柔爪正压不足	在安全气压范围内，增大正压
破裂或鼓包	1. 正压过大造成夹爪损伤	更换夹爪
	2. 疲劳磨损	

安全注意



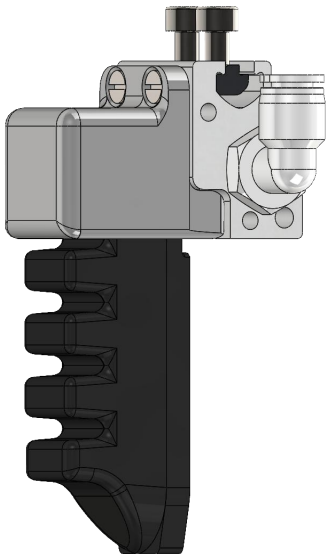
请严格遵守安全注意事项，错误操作可能导致本产品损坏和人身伤害。

1. 请勿将柔性夹爪直接连接高压气源。
2. 请连接柔触专用驱动器或精密调压装置，超压工作会对产品造成不可逆转的损害，导致产品寿命锐减或直接损毁。
3. 本产品需用到压缩空气，应由具有充分知识和经验的人操作，错误操作压缩空气是非常危险的。

Rocho



Soft Beak



Soft Finger

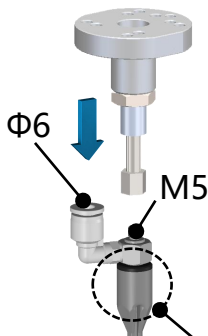
Safety Pressure

Different from the traditional cylinder, Rochu soft finger/soft beak is precision pneumatic component by switching **low pressure and vacuum**. The **safety pressure** mark on the product is the maximum using pressure. Overpressure operation will cause irreversible damage to the gripper. Before use, be sure to confirm the safety pressure to avoid overpressure operation.

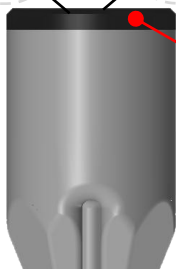


Beak Module Assembly

Side air inlet



Straight air inlet



The metal tail



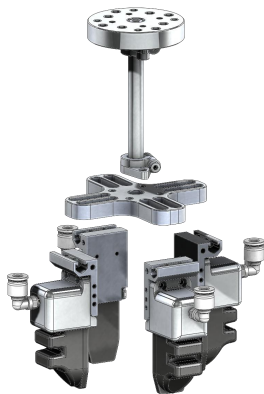
Notes:

When installing /S and /M soft beak, **rotate the metal tail of the soft beak**, do not rotate the colloidal part.

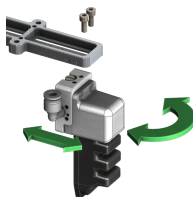


Scan to watch

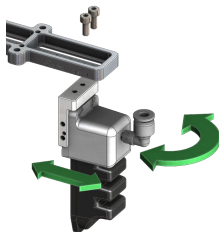
Finger Module Assembly



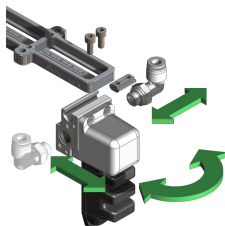
• V2



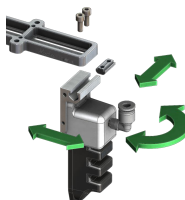
• V3



• V4

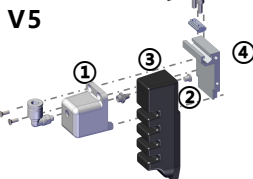
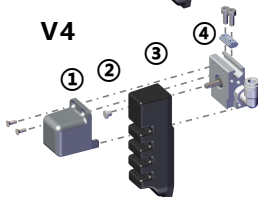
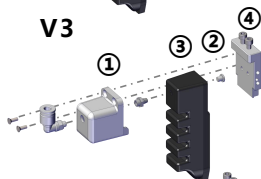
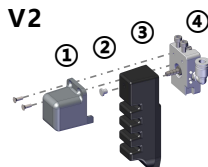
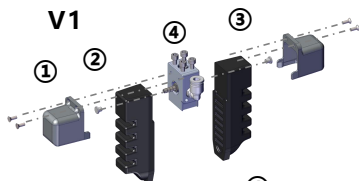


• V5



Scan to watch

How to replace Finger?



Spare part:

- ① Shell
- ② Plug
- ③ Rochu soft finger
- ④ Mounting block

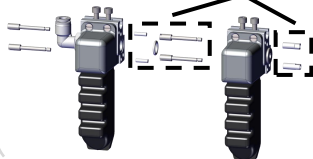
Scan to watch



Finger Module Series Combination

PK-AV4
PK-BV4
PK-CV4

Parts Kit
(optional)



PK-AV5
PK-BV5
PK-CV5

Parts Kit
(optional)



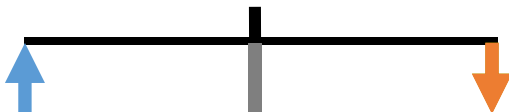
Working Principle

Rochu Soft finger/beak adopts air drive technology to open and grab through switching pressure and vacuum, so as to achieve soft grasp or internal support action.

By adjusting the pressure to control grabbing strength of the soft finger or opening angle of the soft beak.

By adjusting the vacuum to control grabbing strength of the soft beak or opening angle of the soft finger.

Rochu Control Unit



Vacuum

Soft Beak



Grab

Soft Finger



Open

Atmosphere



Release



Release

Pressure



Open



Grab

Packing List

The several soft finger/beak and one instructions.

F&Q		
Problems	Probable Cause	Solution
Insufficient clamping force	1. Excessive fingertip distance	Adjust the sliding screw to reduce the fingertip distance
	2. Insufficient pressure for the soft finger	Increase the pressure within the safety pressure range
	3. Insufficient vacuum for the soft beak	a. Check the output vacuum of the Control Unit
		b. Check the pressure and flow of air source to ensure that the pressure of air source is greater than 0.6MPa and the flow is sufficient
	4. Pipes leakage	Check pipes
	5. Broken/leaked grippers	Check or replace the soft gripper
	6. Improper gripper selection or arrangement	Consult the sales consultant to change the gripper model
Insufficient opening angle	1. Insufficient Vacuum for the soft beak	a. Check the output vacuum of the Control Unit
		b. Check the pressure and flow of air source to ensure that the pressure of air source is greater than 0.6MPa and the flow is sufficient
	2. Insufficient pressure for the soft beak	Increase the pressure within the safety pressure range
Rupture or bulge	1. Excessive pressure causes damage	Replace the gripper
	2. Fatigue wear	

Attention



Please strictly observe the safety precautions. Improper operation may result in product damage or personal injury.

1. Do not directly connect the soft gripper to the high-pressure air source.
2. Please connect the Rochul control unit or a precision pressure regulating device. Overpressure will cause irreversible damage to the product, resulting in short service life or direct damage to the product.
3. Compressed air should be used in this product and should be operated by a person with sufficient knowledge and experience. It is very dangerous to operate compressed air incorrectly.