

AVS



Rochu®

Give your robot a soft hand

4

CU Control Unit



PCU2
Passive Control Unit

page. 77



iPCU2
Integrated Passive Control Unit

page. 79



ACU2
Active Control Unit

page. 82



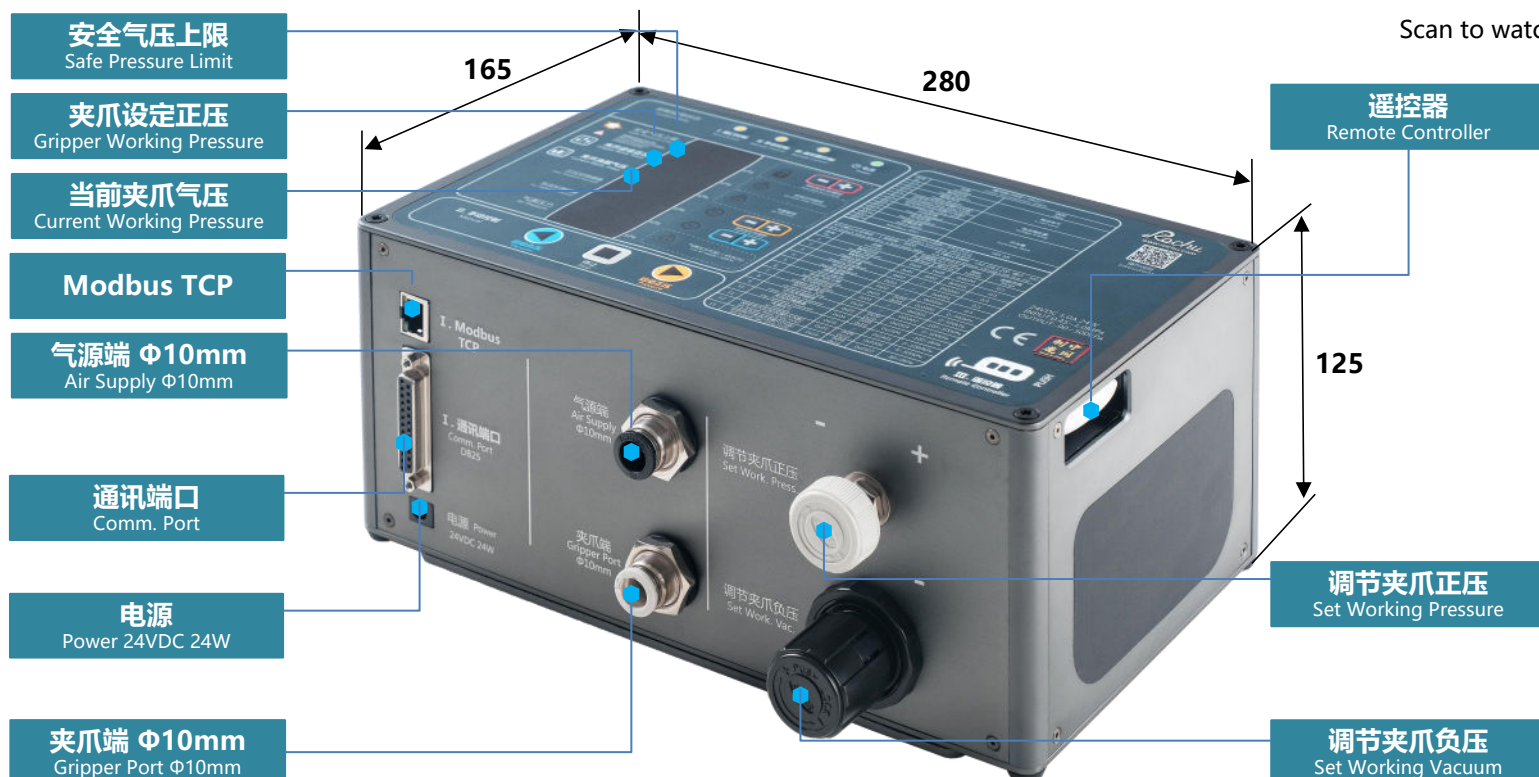
LCU-H
Lite Control Unit

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- **Universal soft gripper controller, with powerful positive and negative pressure regulation and communication function.**
- The working positive pressure or negative pressure can be precisely adjusted. Manual pressure regulation [M] or electronic pressure regulation [V] version can be selected.
- It can communicate with industrial mechanical arm or PLC, and is compatible with I/O (high and low level) and MODBUS communication methods.
- With attitude feedback signal function.
- Equipped with manual control remote control.
- IP53 protection level, can adapt to a variety of harsh environment in the workplace
- Passed the European CE safety certification.



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Parameters

Item	Range	Item	Range
Rated Voltage	24 VDC $\pm 10\%$	Shell material	Aluminum
Rated Power	24 W	Positive pressure flow	260 L/min
Input Air Source	0.45~1.00 MPa, Dry and clean Air Flow > 200 L/min	Negative pressure flow	80 L/min
Output pressure	-80~300 kPa	Life time	50 million times
Working noise	70 dB	Control mode	a. Modbus TCP/RTU
Protection level	IP54		b. I/O, Level signal
Working mode	Continuous signal drive		c. Manual Button
			d. Remote control (PCU2-M)

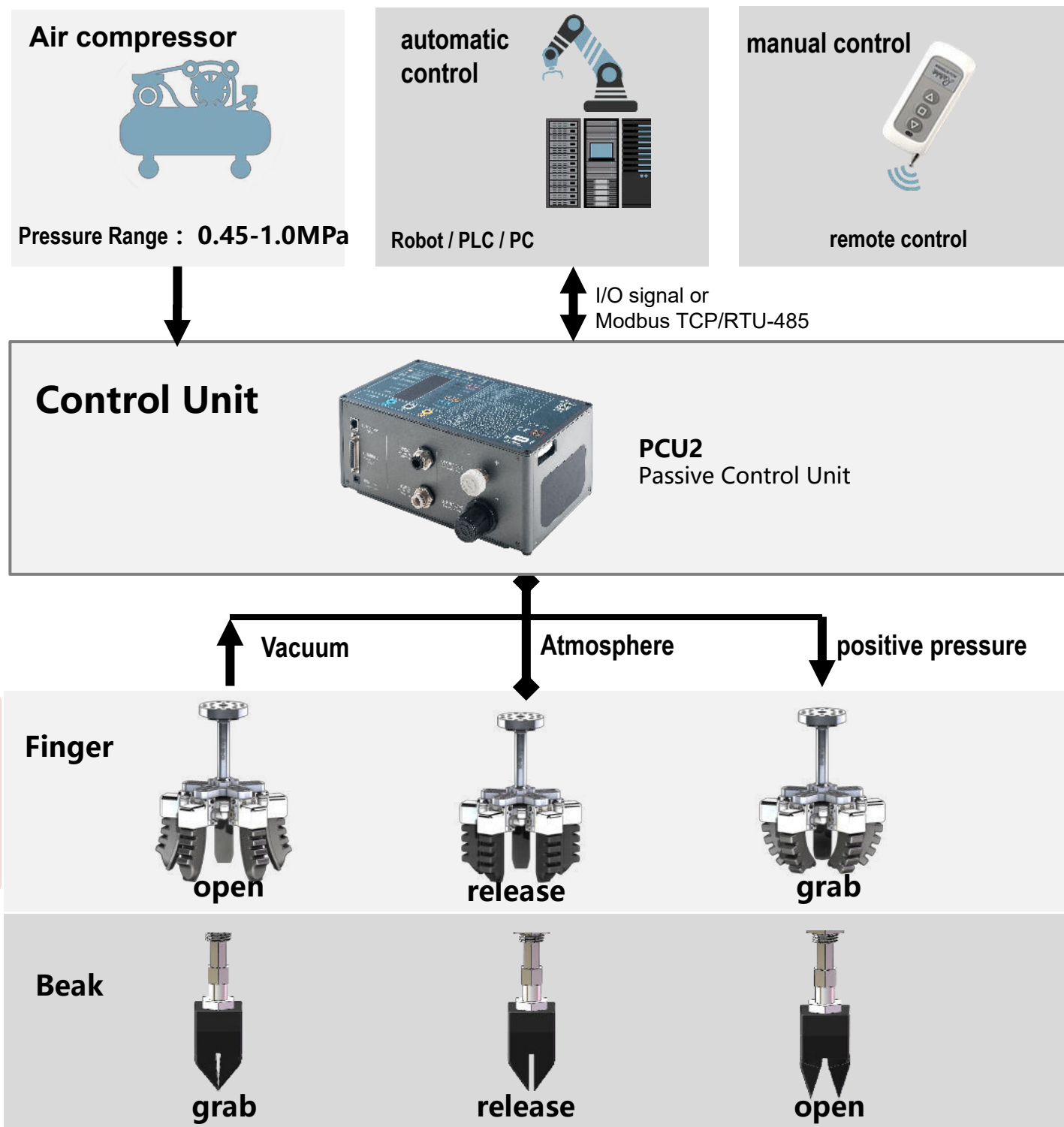
Model

Model	Manual	Electronic	Size[mm]	Net weight
Manual adjustment	•		280*165*125 mm	3.85
Electronic adjustment		•	280*165*155 mm	4.40

CU



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small, light and easy Control Unit for all soft gripper.

- High pressure air input, precise low pressure air or vacuum output.
- Can be used on **all** soft finger or beaks.
- Manual air pressure precise setting.
- Integrated panel with digital display and operation buttons.
- Remote controlling with (I/O level signal), suitable for all robot arms or PLC.



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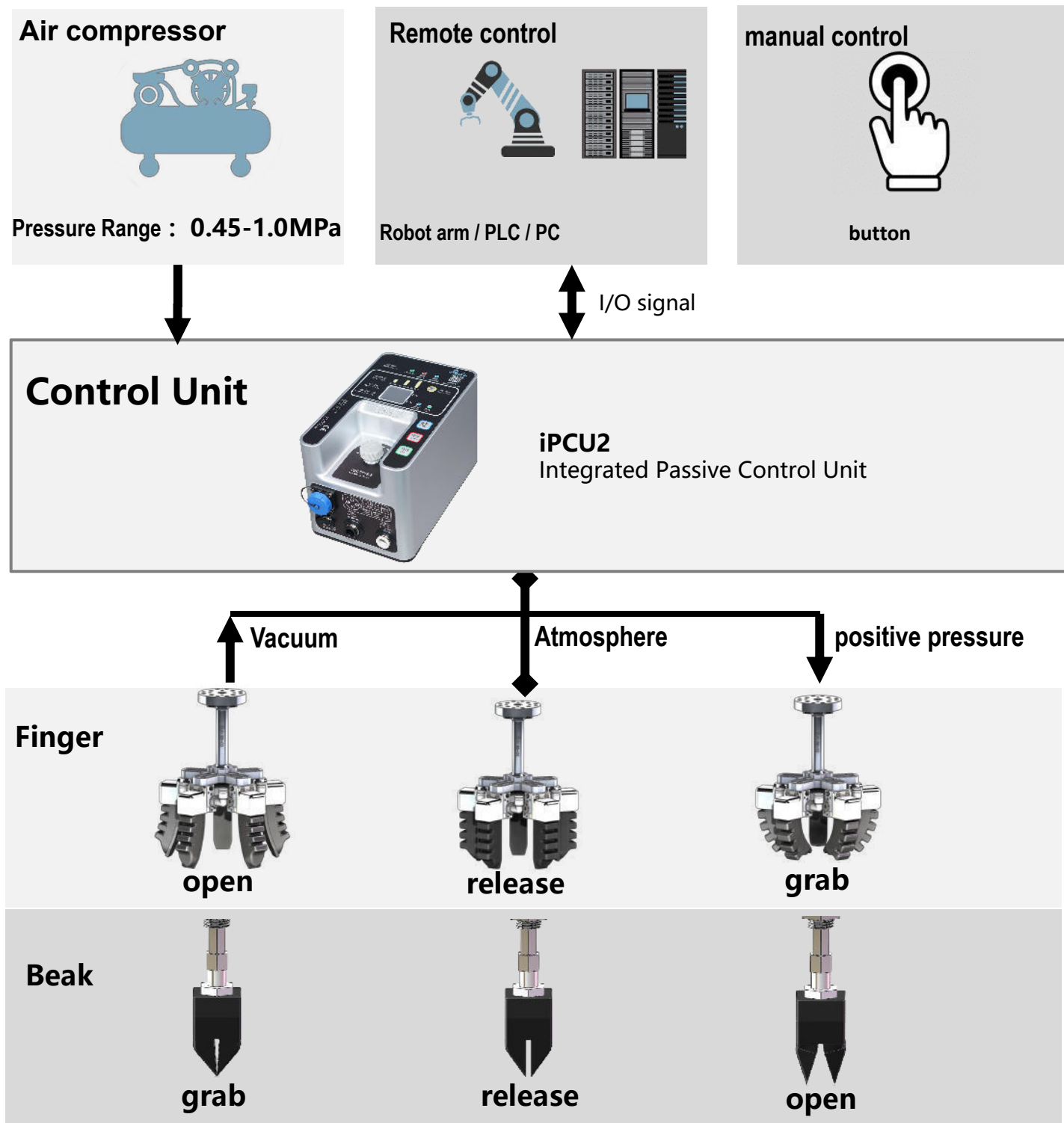
Parameter

Item	Range	item	Range
Power	24 VDC $\pm$ 10%	Frame material	ABS
Rated power	10 W	size	207x132x141 mm
Input air	0.45~1.00 MPa, flow > 200 L/min	N.W.	2.0 kg
Output air pressure	-90~60kPa (Low)	Life time	50 million times
	-90~120kPa (middle)	Control mode	a. Manual button
	-90~300kPa (high)		b. I/O, level signal
Protection grade	IP54	Working pressure setting	Manual

Model

There are two models of iPCU2: **iPCU2-SMN** and **iPCU2-HMN**. iPCU-HMN has higher air flow and faster response speed, which is suitable for high speed handling.

	Model	Positive pressure flow	Negative pressure flow
		[L/min]	[L/min]
Standard	iPCU2 - SMN	200	40
High speed	iPCU2 - HMN	260	80



CU

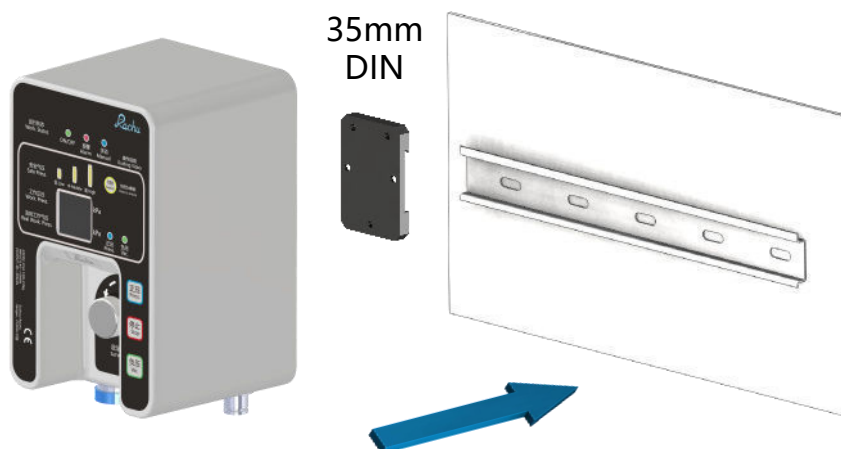


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Place directly

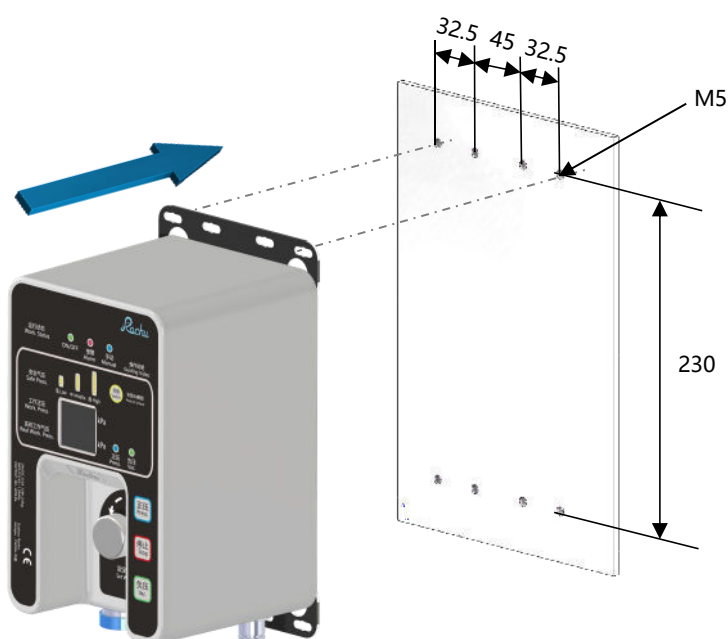


Slot to install



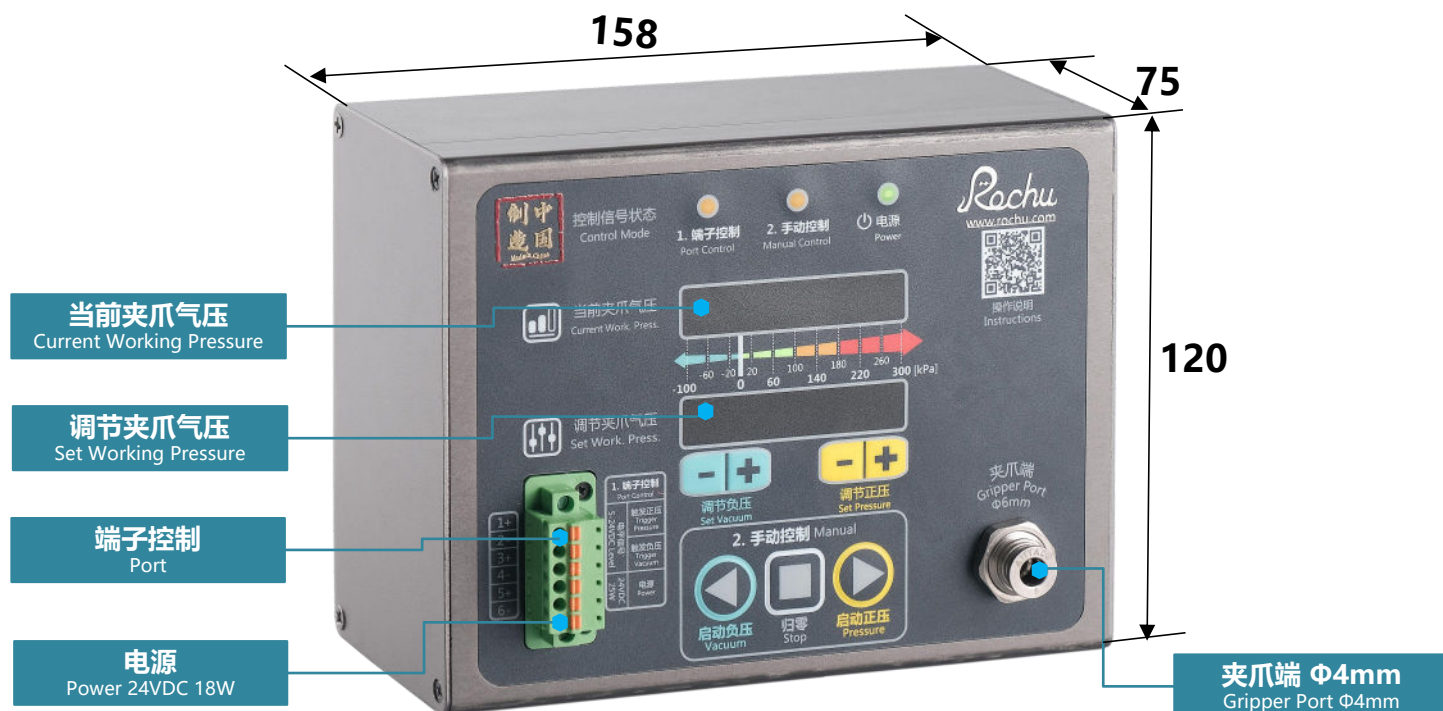
CU

Panel to install



Compact active controller with flexible SOFT gripper. Small size, light weight, easy installation.

- Built-in air source, compact and light.
- -85~100kPa output pressure range, full support from soft beak to soft fingers and suction cup drive.
- Working positive pressure, working negative pressure can be adjusted by the panel button in real time.
- Integrated panel integrates digital display and operation buttons.
- With manual (button) and automatic (I/O level signal) two control modes, with a variety of mechanical arm, PLC terminal.
- IP54 electrical protection grade, waterproof and dustproof, suitable for all kinds of bad working conditions, with intelligent alarm function, safety, stability, no need to worry about disoperation.



工作参数

Item	Range	Item	Range
Rated voltage	24 VDC	Shell material	Anodic oxidation of aluminum alloy
Rated Power	18 W	Size	158*120*75 mm
Output pressure	-85~100kPa	Net weight	1.05 kg
Protect grade	IP54	Working mode	Continuous signal drive
Positive pressure flow:	4L/min	mode	a. Manual button
Negative pressure flow:	4L/min		b. I/O, level signal
Working noise:	50 dB		



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CU



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Remote control



Robot arm / PLC / PC

manual control



button



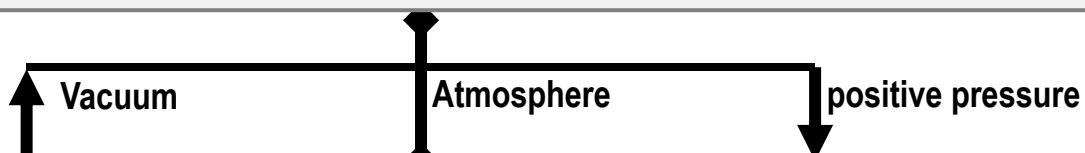
I/O Signal or
Modbus TCP/RTU-485

Control Unit



ACU2-B

Active Control Unit



Finger



open



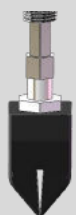
release



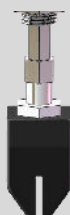
grab

CU

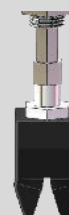
Beak



grab



release



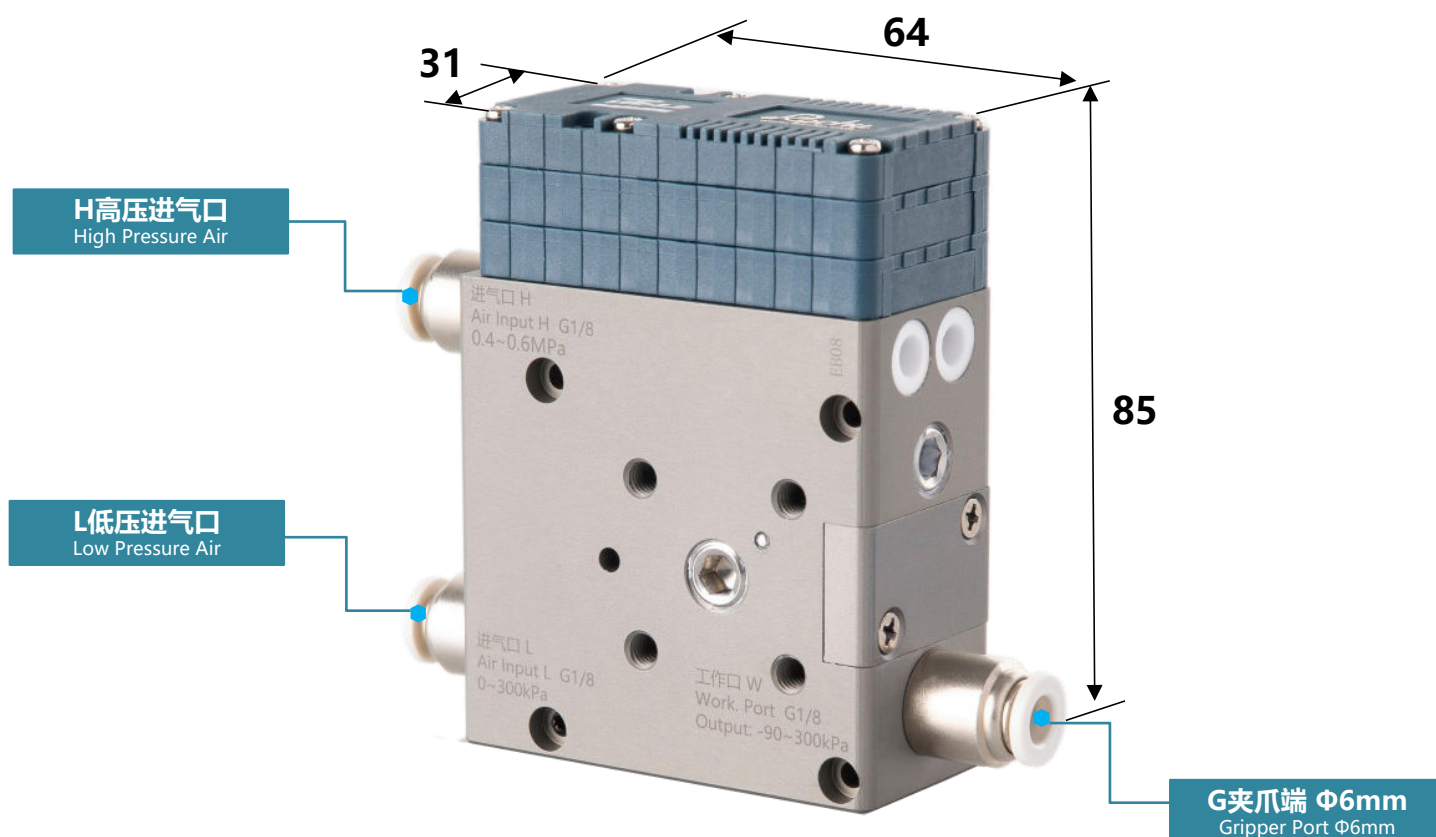
open

Rochu Micro controller. Small size, light weight, easy installation.

- 90~300kPa output pressure range, full support from soft beak to soft fingers and suction cup drive

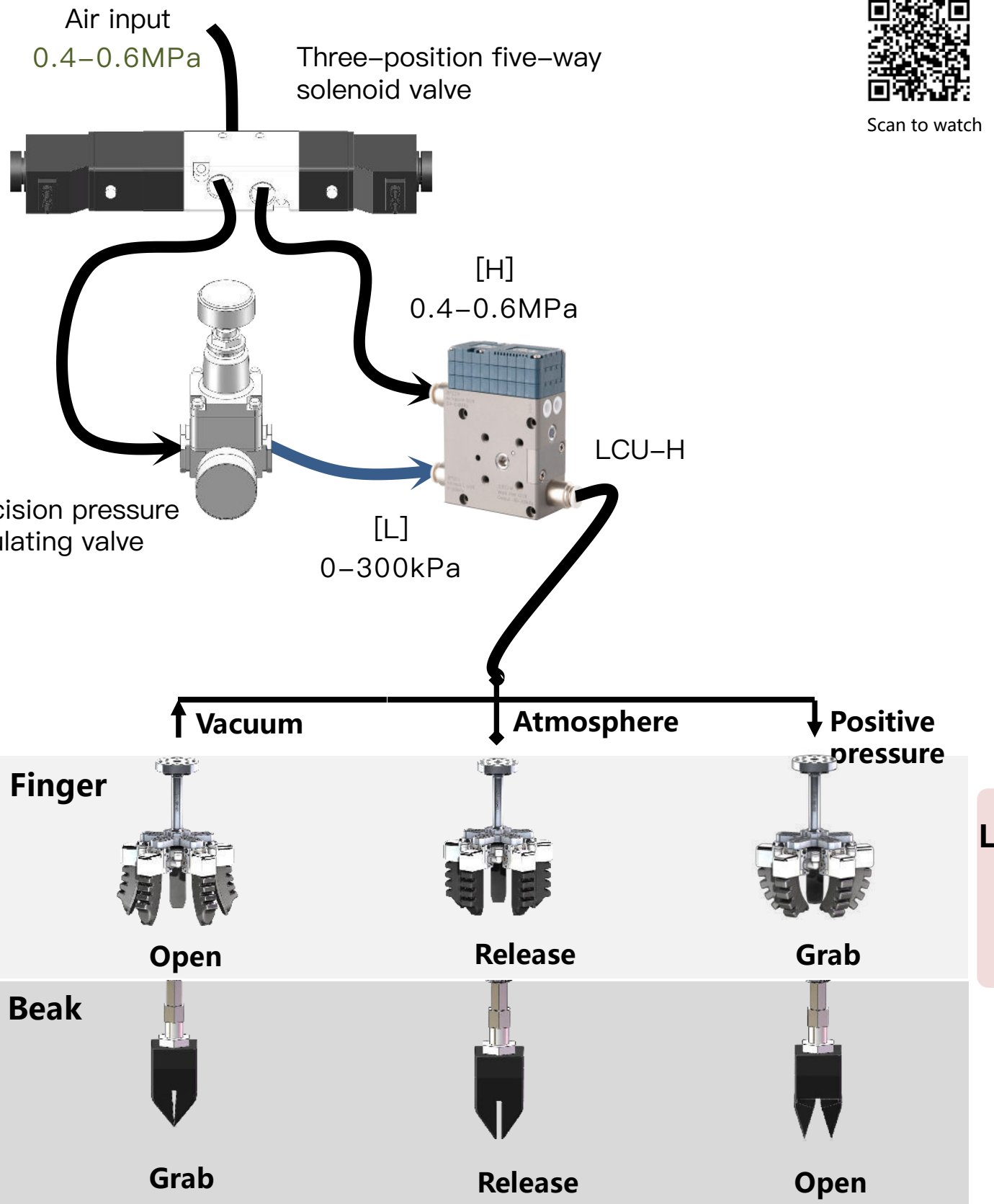


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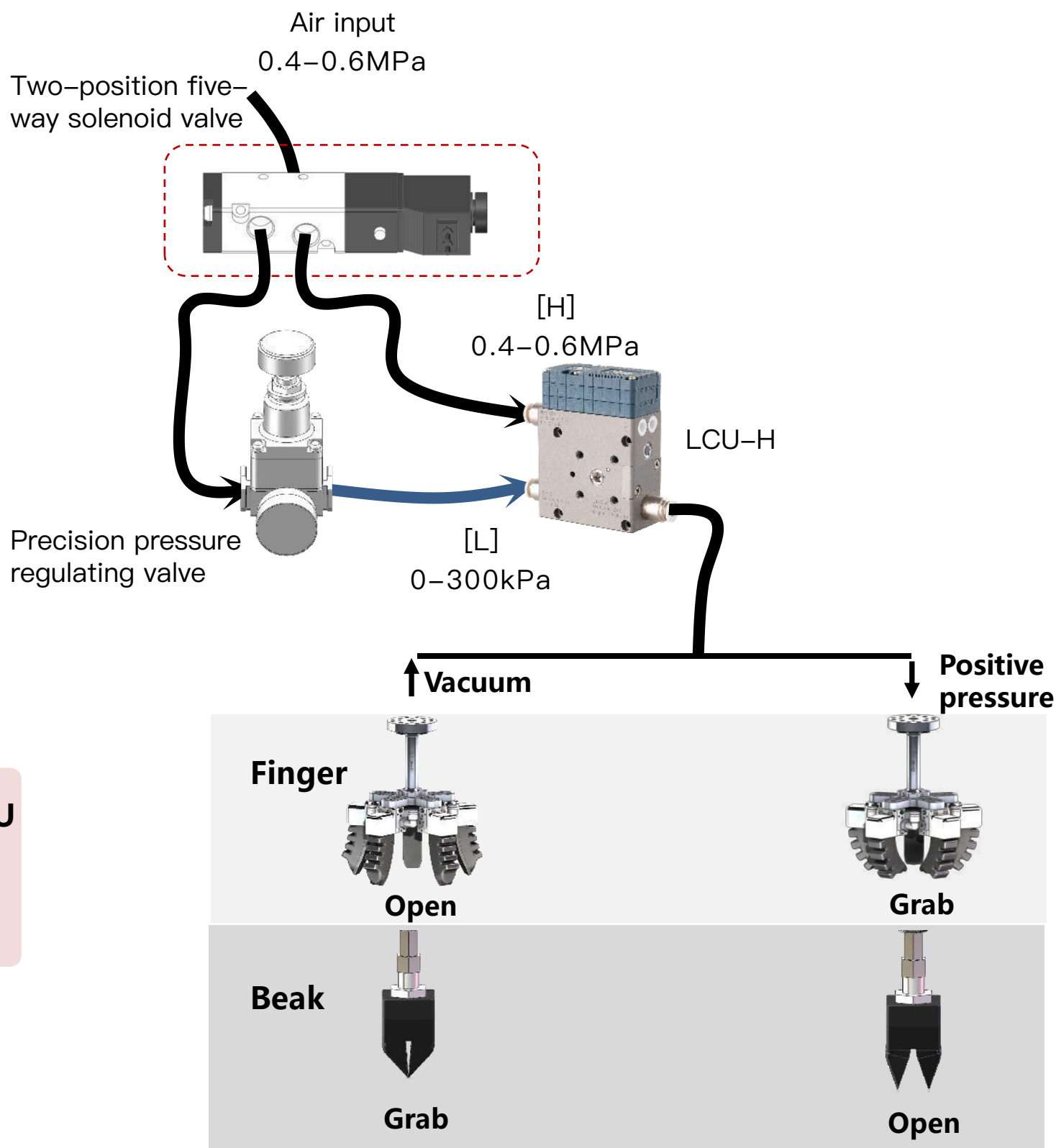


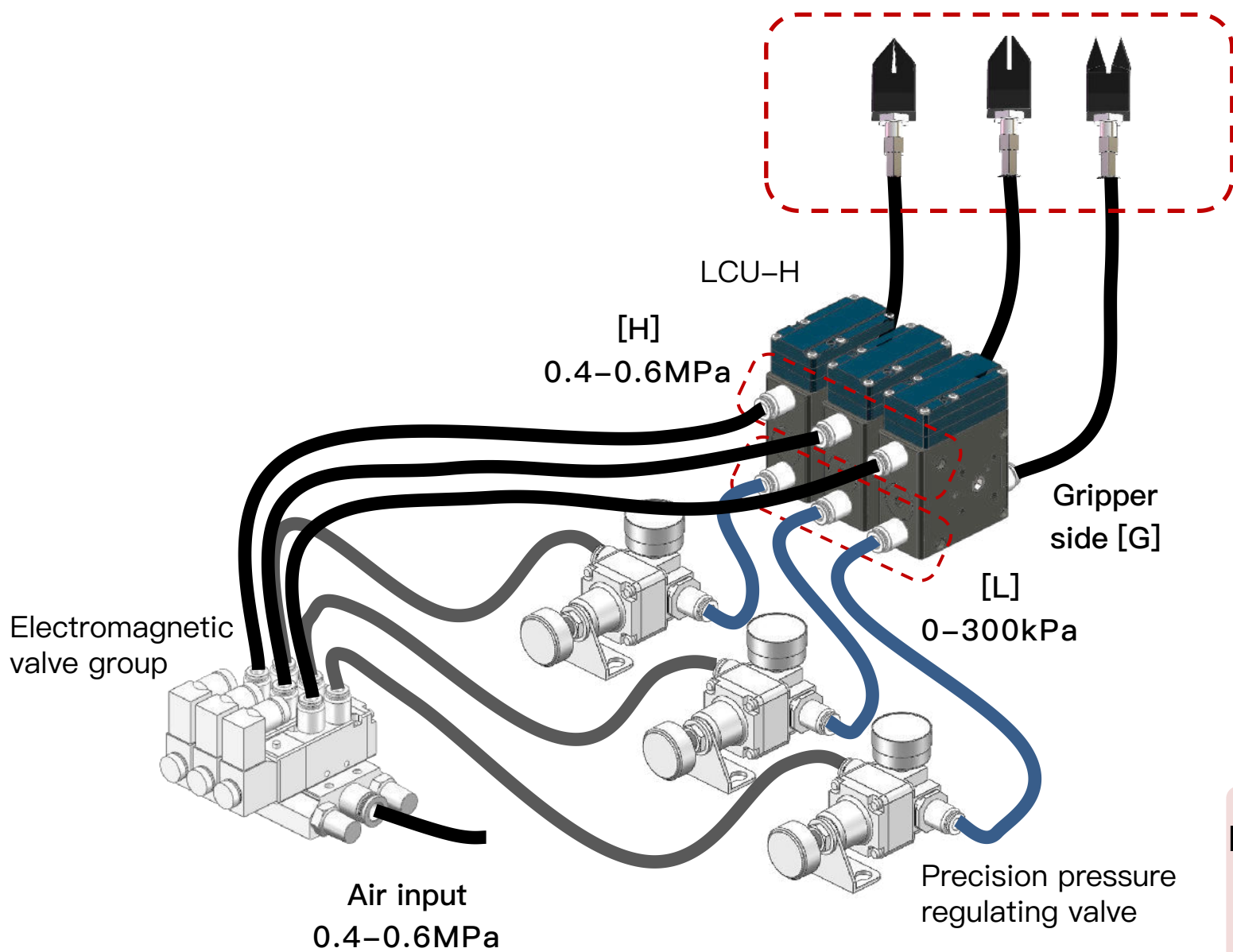
Parameter

Item	Range	Item	Range
Size	64×31×85 mm	Net weight	350g
Output	-90~300kPa	Control Mode	External solenoid valve control
Positive pressure flow	165L/min	The output air source	0.45~1.00MPa dry and clean
Negative pressure flow	55L/min		Flow > 200L/min



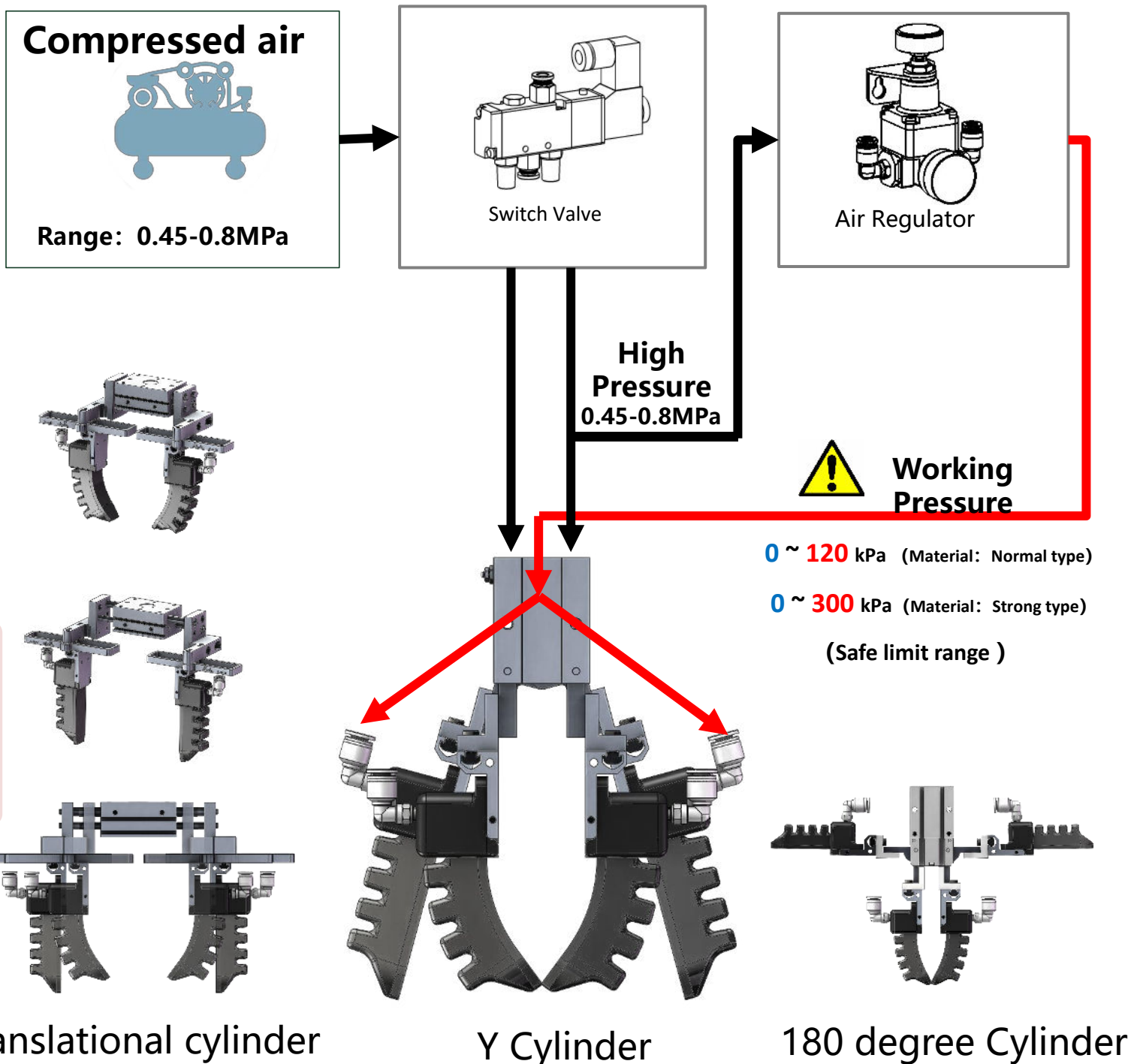
Two-position single drive





LCU

- 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.