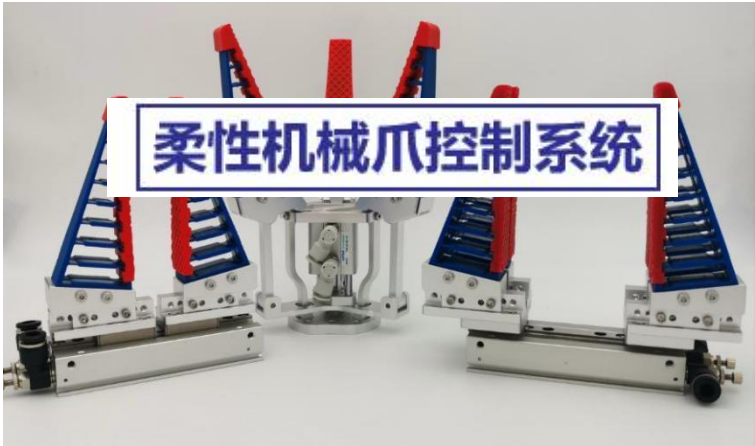


# Flexible adaptive gripper FA series brochure



# Flexible adaptive gripper FA series introduce

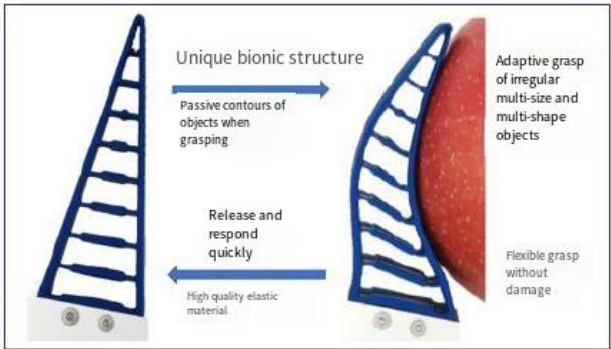


Flexible mechanical claw control system

Use the common two-position five-way solenoid valve reversing control. As a preferred option, a precision pressure regulator can be added to the inlet front.

Easy to control

No extra cost



## Control system

Air source

Solenoid valve

Gripping jaw



## Features and application areas

### secure

Composed of flexible materials, even if the hand is accidentally pinched, it will not feel pain. Intrinsic security makes it suitable for human interaction and is well suited for use in research and services

### lossless

The material is soft and the elastic structure can offset the excess external force and grasp the object without damage. Very suitable for fruit, glass, ceramics, powder die-casting molding objects, surface high requirements of the object lossless grasp.

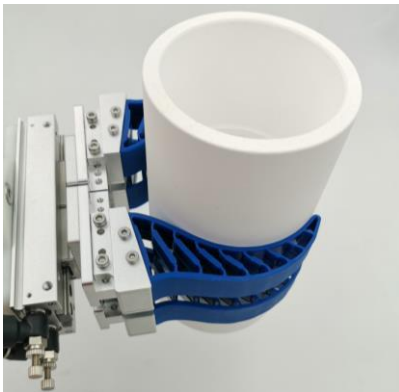
### One-claw compatibility

Adaptive object contours. One claw grasp different shapes, different sizes, special-shaped workpieces. It is very suitable for grasping special-shaped objects and flexible production of multi-specification products in one production line.

### Save money and time

Multi-specification objects do not need to be quickly changed when grasping, efficient and economical. No need to customize the shape of the claw according to the shape of the workpiece, ready to use, saving time and labor.

Flexible adaptive gripper can be wrapped and grabbed all kinds of objects without causing physical damage to the grabbed objects, which is suitable for food, automobile, daily chemical, medical, 3C electronics and other fields. It can be integrated into intelligent assembly, automatic sorting, logistics warehousing, and food processing lines. It can also be used as a functional accessory for scientific research and experimental equipment, intelligent entertainment equipment or service robots, and is an ideal choice for customers who require intelligent, non-destructive, high safety, and high adaptability to grasp.



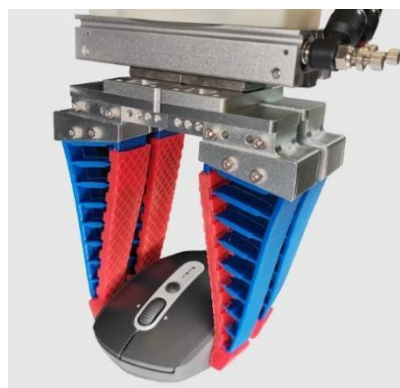
Powder die casting production

Special-shaped lampshade injection molding

Service robots



Daily chemical



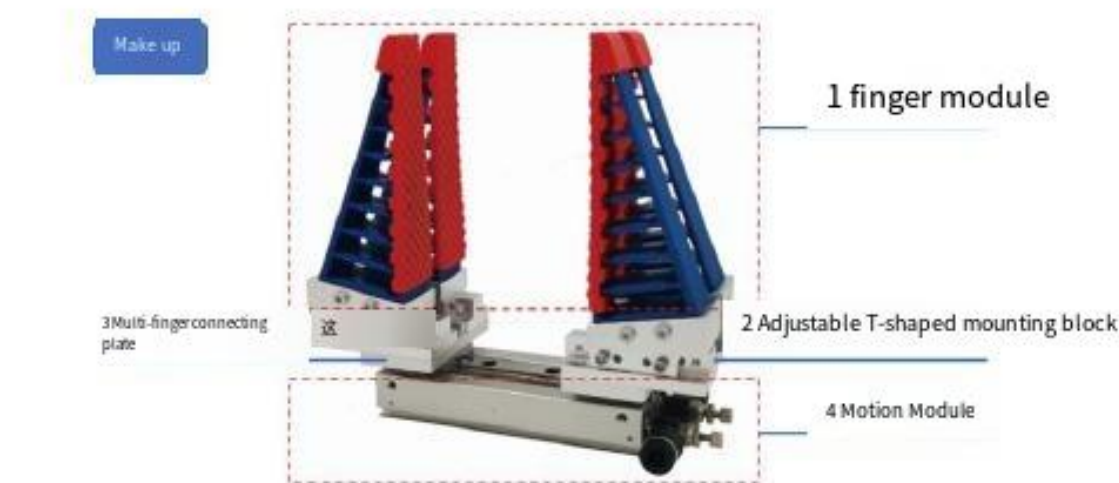
3C



Fresh fruit



## 2 Flexible adaptive mechanical claw product introduction



2 Adjustable T-shaped mounting blocks can be used to adjust the distance between fingers on both sides.

3 Multi-finger connector can be customized

It includes increasing the number of fingers, increasing the spacing of fingers on the same side, and increasing the installation distance of fingers on both sides. 4 The motion module can also be re-selected according to the demand, including the motion style and stroke.

### 编码规则

FA 4 MR 100 W30 L48  
1 2 3 4 5 6

1 系列名称	
代号	描述
FA	Flexible adaptive gripper 柔性自适应机械爪

2 手指数目	
代号	描述
缺省	仅手指模块
2	2指
3	3指
4	4指

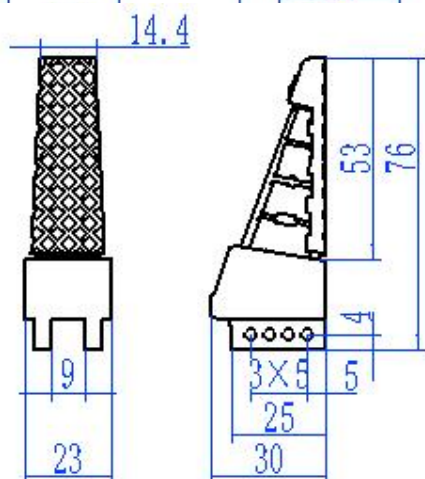
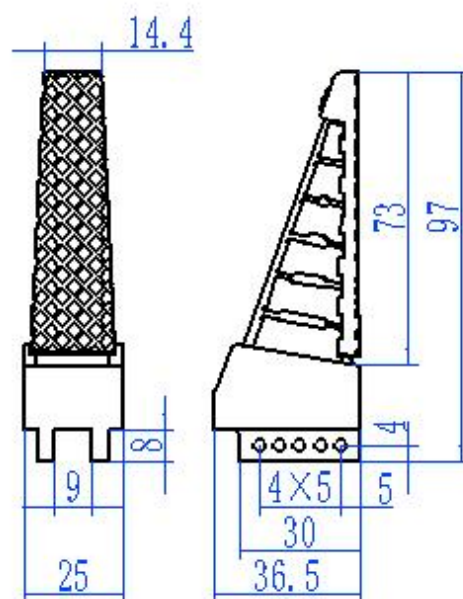
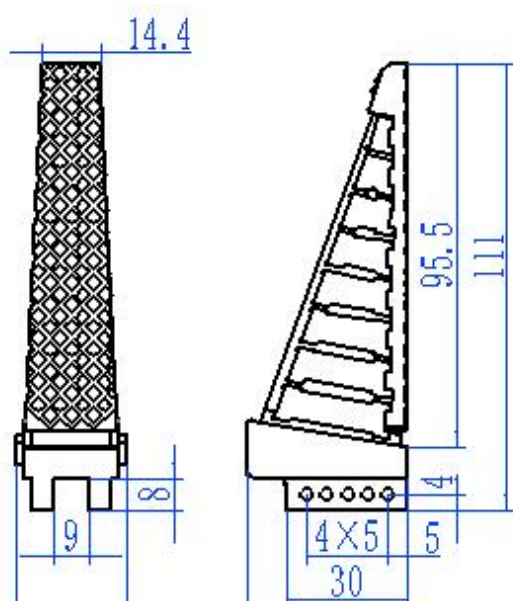
3 手指模块组成	
代号	描述
MR	手指带硅胶层rubber
M	手指不带硅胶层

4 手指长度	
代号	描述
66	手指66mm长
86	手指86mm长
100	手指100mm长

5 手指同侧间距	
代号	描述
缺省	无此参数
30	同侧手指中心距30mm
80	同侧手指中心距80mm 也可调成50mm

6 运动模块移动行程	
代号	描述
12	开闭行程12mm长
24	开闭行程24mm长
48	开闭行程48mm长

## 手指模块

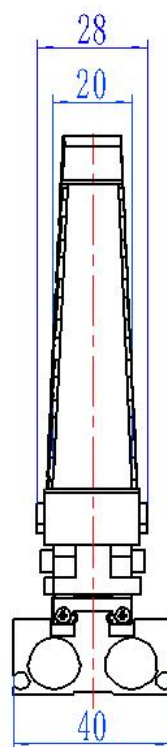
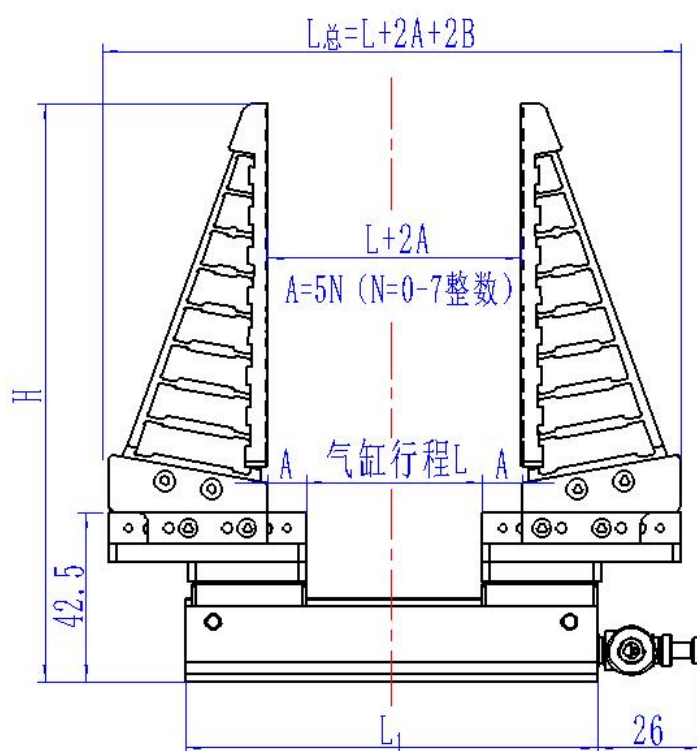
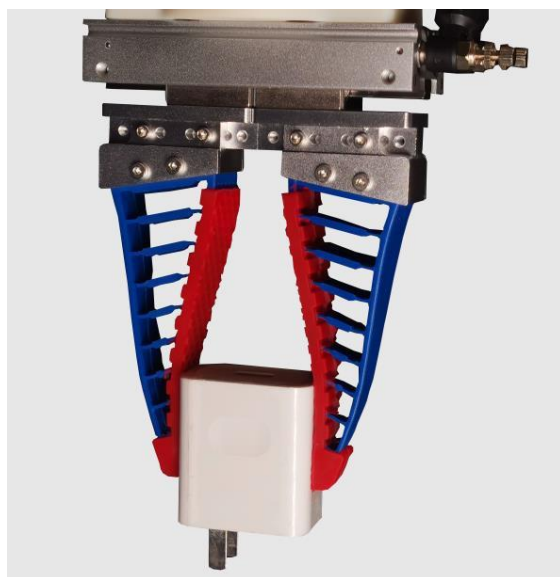


手指模块			
型号	自重	单指负载	尺寸B
FAMR66	22g	250g	30mm
FAMR86	32g	300g	36.5mm
FAMR100	52g	350g	40mm

Note: Grabbing small and short objects, short finger effect is better.

The single finger load is the reference value, depending on the shape and material of the object to be grasped.

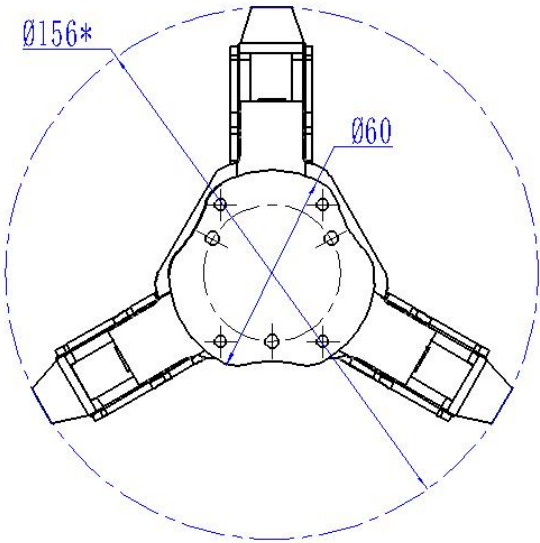
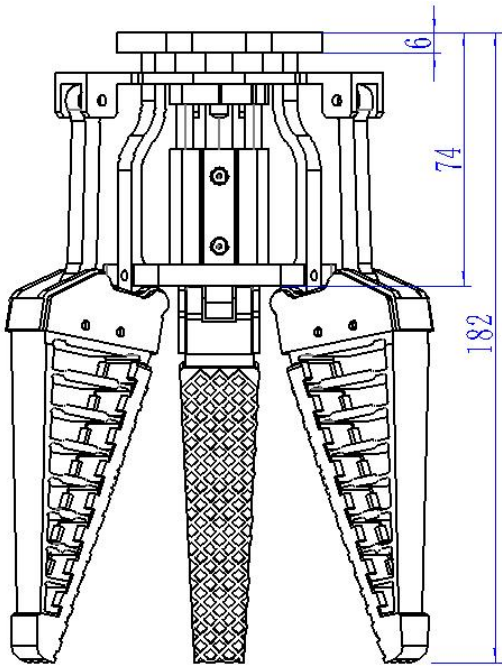
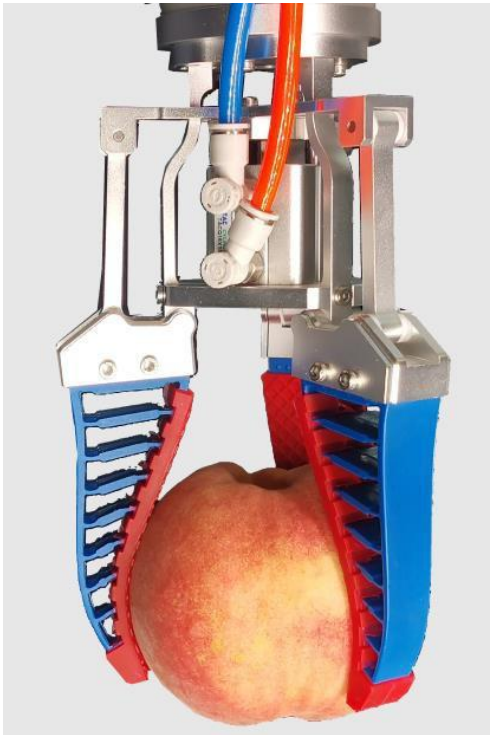
## 二指FA机械爪



二指FA机械爪						
型号	手指长度	尺寸B	整数N	开闭行程L	长度L <sub>1</sub>	高度H
FA2MR66L12	66mm	30mm	0-3	12mm	52mm	110mm
FA2MR66L24	66mm	30mm	0-3/7	24mm	68mm	110mm
FA2MR66L48	66mm	30mm	0-3/7	48mm	104mm	110mm
FA2MR86L24	86mm	36.5mm	0-3/7	24mm	68mm	132mm
FA2MR86L48	86mm	36.5mm	0-3/7	48mm	104mm	132mm
FA2MR100L24	100mm	40mm	0-3/7	24mm	68mm	146mm
FA2MR100L48	100mm	40mm	0-3/7	48mm	104mm	146mm



# 三指FA机械爪

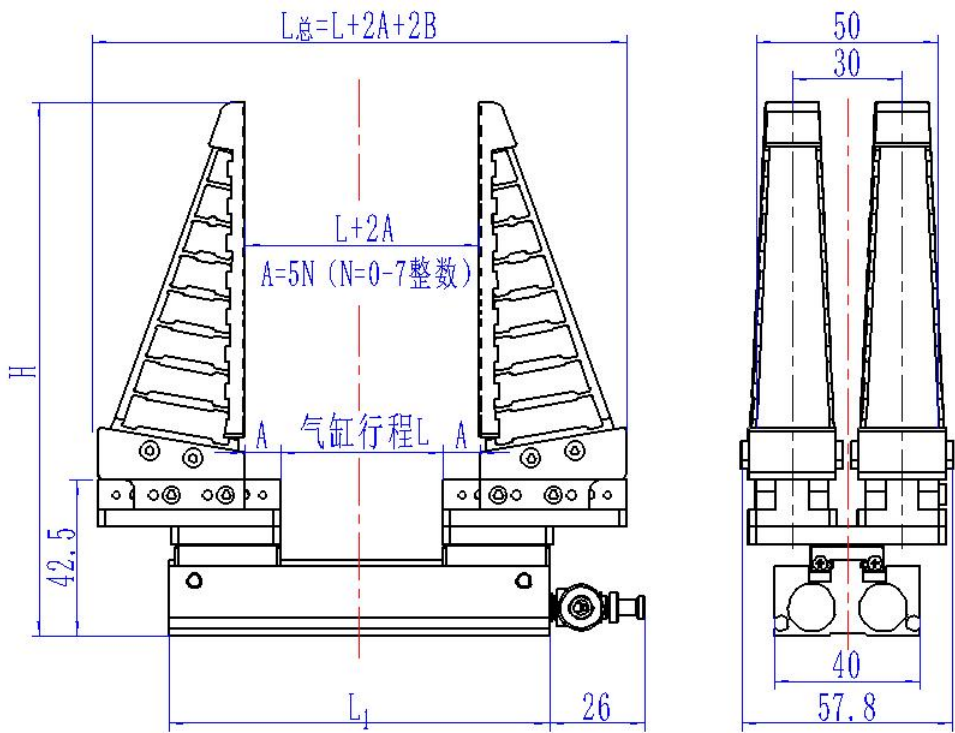


Note: The maximum size after opening is 156mm, which can be reduced.

Note: The maximum opening size of 156mm can be reduced.

Three finger FA mechanical claw				
Model number	Be self-possessed	load	Grab range	
FA3MR100R15C	470克	1050克	Diameter 20-100mm ball type	

# 四指FA机械爪



四指FA机械爪

型号	手指长度	尺寸B	整数N	开闭行程L	长度L <sub>1</sub>	高度H
FA4MR66L12	66mm	30mm	0-3	12mm	52mm	115mm
FA4MR66L24	66mm	30mm	0-3/7	24mm	68mm	115mm
FA4MR66L48	66mm	30mm	0-3/7	48mm	104mm	115mm
FA4MR86L24	86mm	36.5mm	0-3/7	24mm	68mm	137mm
FA4MR86L48	86mm	36.5mm	0-3/7	48mm	104mm	137mm
FA4MR100L24	100mm	40mm	0-3/7	24mm	68mm	151mm
FA4MR100L48	100mm	40mm	0-3/7	48mm	104mm	151mm