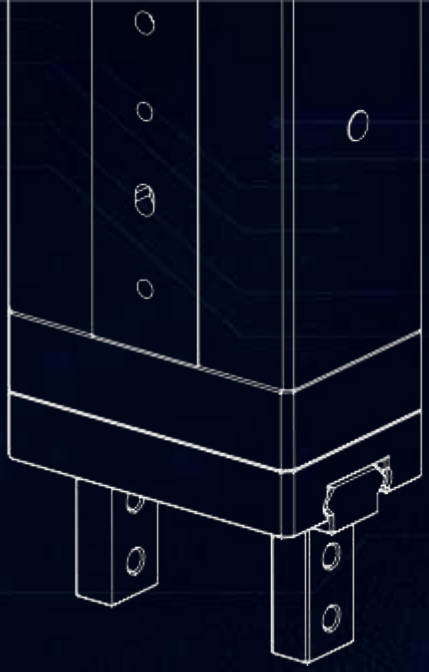
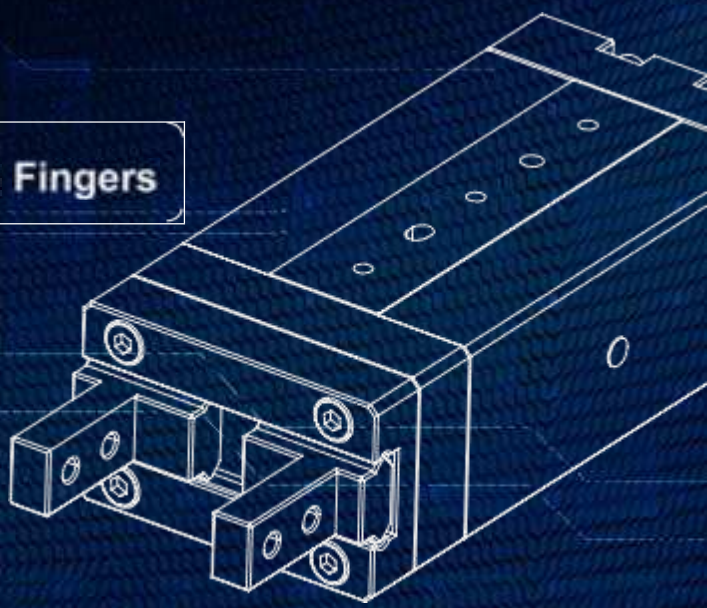
CHENGZHOU



RM-EGB

Mini Electric Fingers

Best Replacement For Pneumatic Fingers



RM-EGB

RoH ISO

Mini Electric Fingers

CE S

Advanteges of Electrical Actuators

Easier Wiring

Can be directly substituted for pneumatic grippers.

Highly Integrated

No need for additional equipment configuration.

Easier Programming

Can achieve motion with uniform speed at multiple positions.

Longer Service Life

Less downtime and higher equipment utilization rate.

Lower Maintenance costs

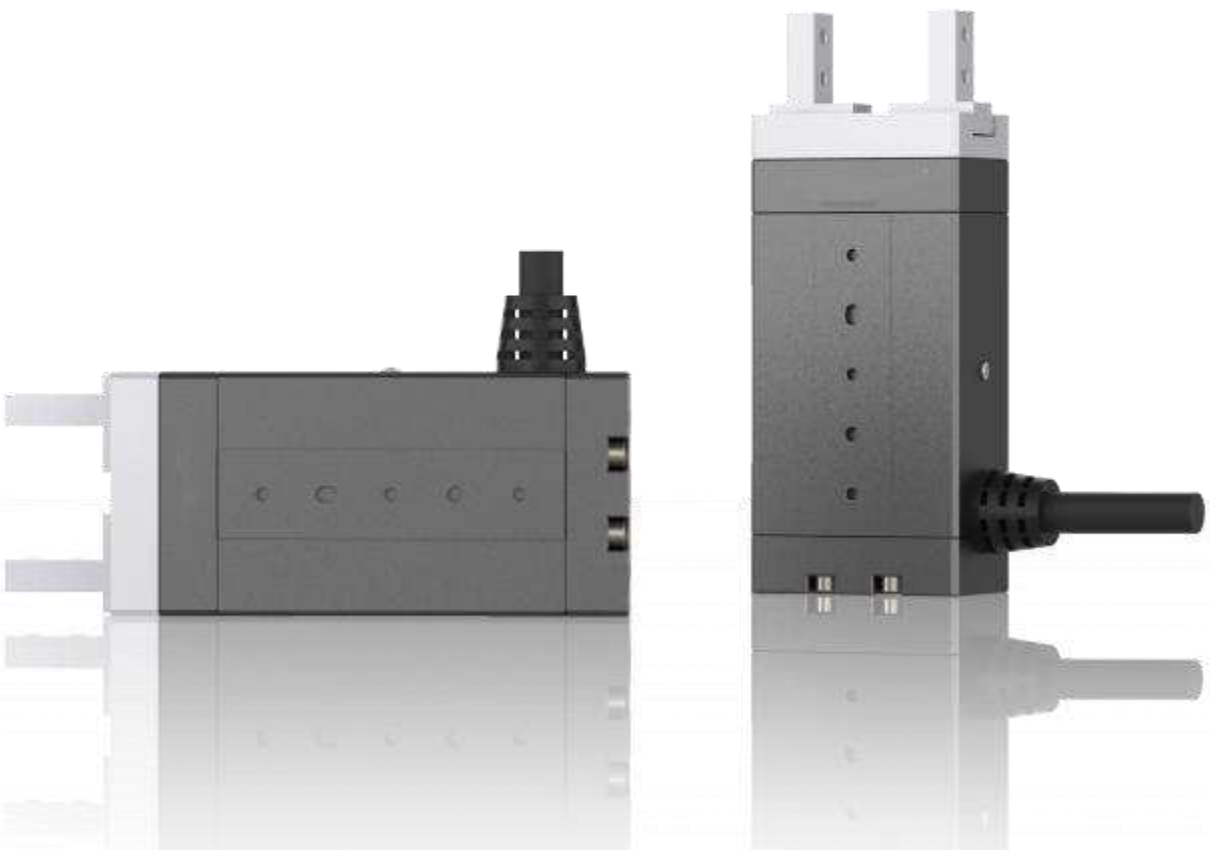
Compact and simple structure; Less difficulty in fault detection

Reduced Noise Levels

Driven by servo motors and avoiding pneumatic noise.

Better Performance

The control accuracy is higher and movement is stable that able to improve product yield.



RM-EGB Mini Eletric Fingers

Plug-and-Play, No Need For Debugging

Best Replacement For Pneumatic Fingers

RM - EGB is highly integrated with servo system inside . It can replace pneumatic grippers, which are composed of an air compressor, filter, solenoid valve, throttle valve, and pneumatic cylinder.

No need to frequently change fixtures

No need to worry about air leakage

No switch slot required

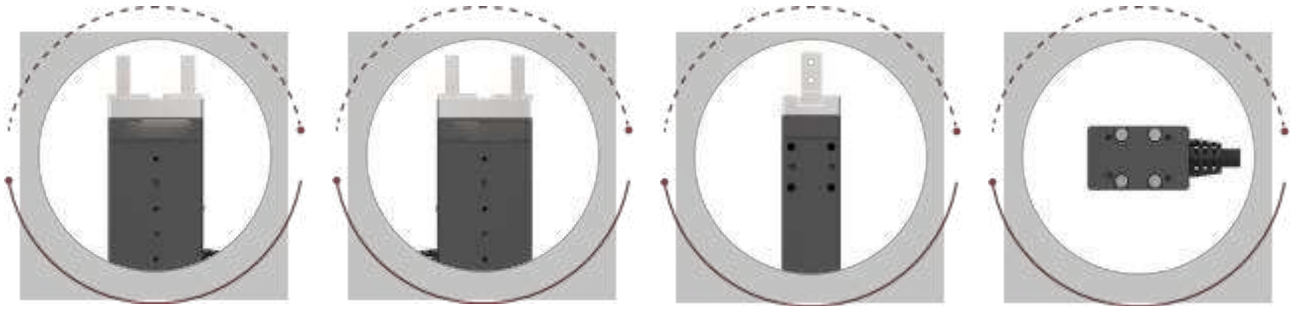
No magnetic switch required

RM-EGB Mini Eletric Fingers

Superior Performance and Flexibility of Use

Wide rang of Clamping Force	10~40N	High Repetition Accuracy	±0.02mm
Opening and closing Speed	0.3s Open/Close	Long Stroke	0~6mm

Multi- sided Mounting Design



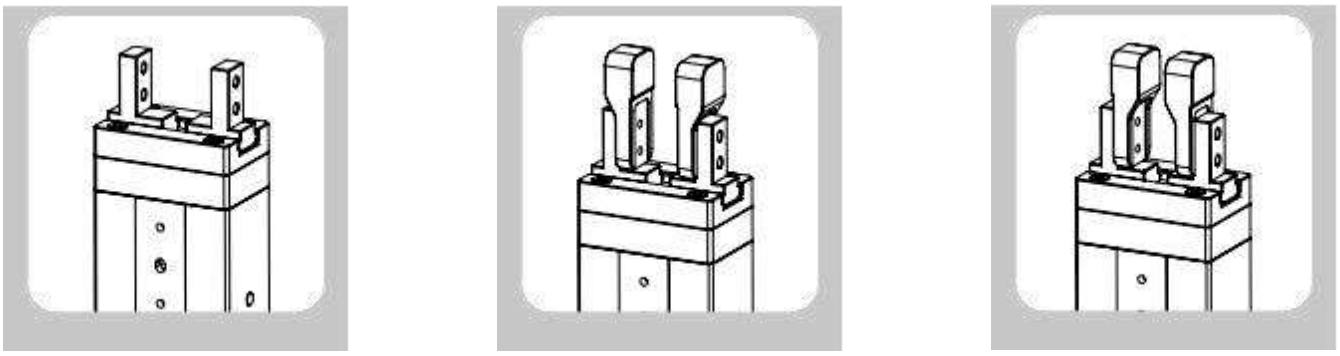
Installation on the front side

Installation on the back side

Installation on the lateral side

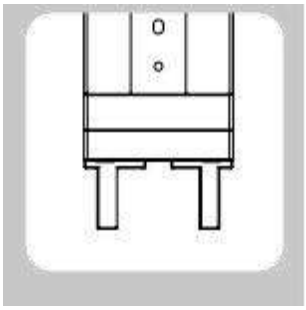
Installation on the underside

Replaceable Fixtures

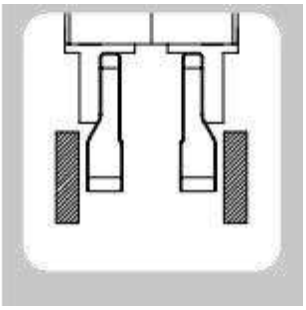


RM-EGB Mini Eletric Fingers

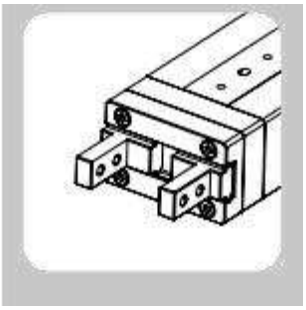
Wide Applications



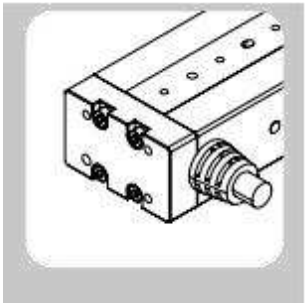
Clamping/dropping confirmation



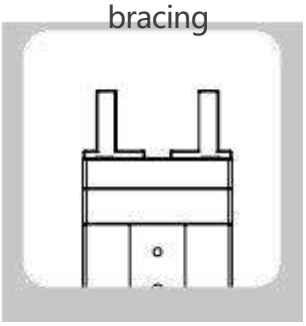
Equal force when inner clamping or outer bracing



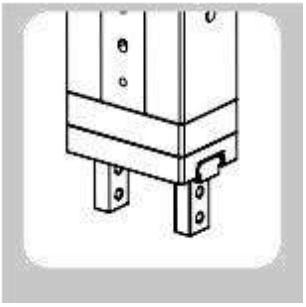
Precise and stable force control



Integrated Construction (Controller built-in)

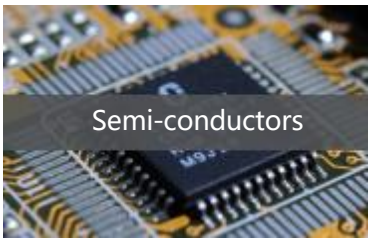


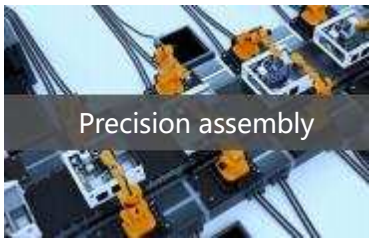
Parallel opening and closing



Energy Efficiency

Application Scenarios





RM-EGB
Mini Electric Finger

High- precision steel balls guide rail

High- rigidity and wear-resistant gripper jaws

Hard anodizing of the actuator body

Cable with a bend lifespan of 10 million times

Compact & Efficent

23.5*38*98mm

220g

Compact structure

Easy to use

High rigidity

RM-EGB
Mini Electric Finger

Model Description

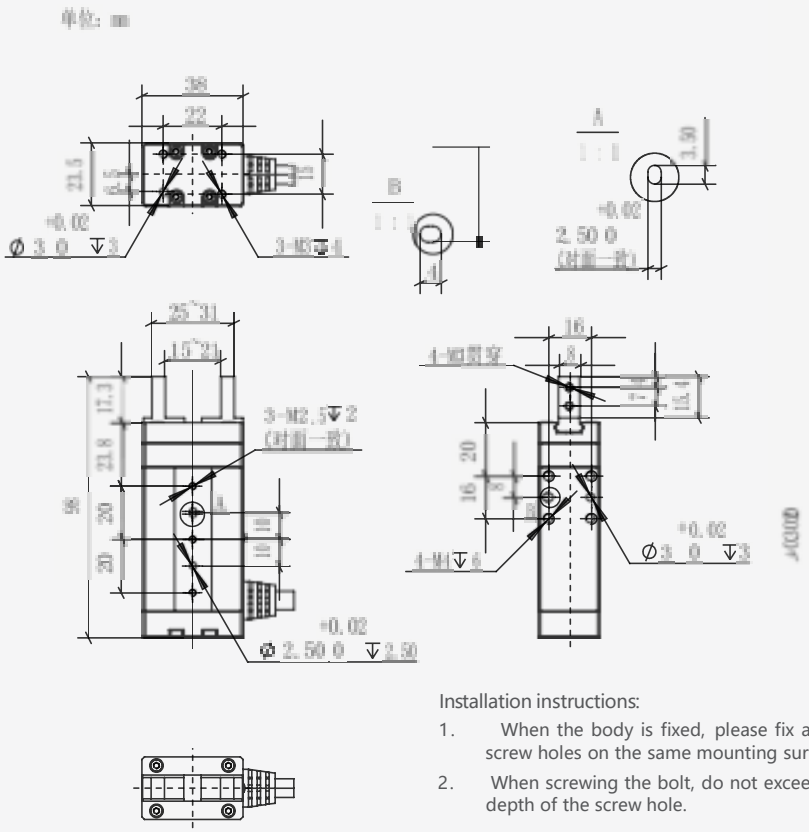
	Product Series	Size number		Stroke		Way of lead wire& Length of lead wire		Series
RM -	EGB	- 06	-	6	-	D0300	-	ITG
		06		6		D (Direct wiring) 0300		

Item	Parameters of RM-EGB
Stroke(mm)	6
Max.Gripping Force(N)	40
Max. Opening/ Closing Speed(s)	0.3 / 0.3
Position Repeatability (mm)	±0.02
Allowable Static Torque of the Fingers(N.m)	MR: 1.36, MP: 0.8, MY: 0.68
Weight (KG)	0.22
Rated Voltage (V)	DC24±10%
Rated Current (A)	0.4
Peak Current (A)	0.8
Usage Environment	0 ~ 40℃, 85%RH or Less
IP Level	IP40

Description:

1. The data were obtained from actual laboratory measurements at 25° C.

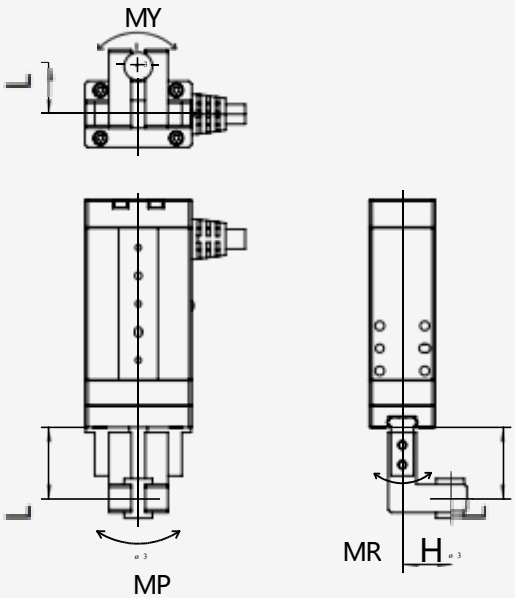
RM-EGB-06-6 (6 mm Stroke)



Installation instructions:

1. When the body is fixed, please fix all the screw holes on the same mounting surface.
2. When screwing the bolt, do not exceed the depth of the screw hole.

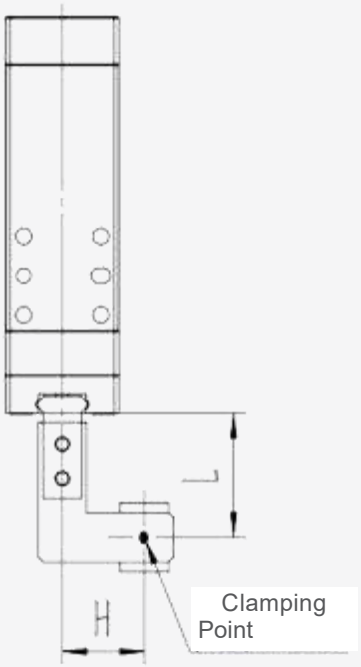
Illustration of Allowable Load Torque

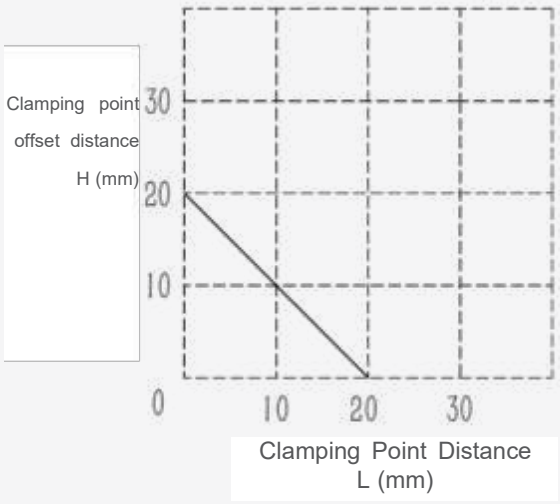


Suggestions About Fixture Design

For the distance (L, H) from the mounting surface of the motorized gripper jaw to the gripping point, please make sure it's within the range shown in the chart below.

Please note that when exceeds the limit range , it will cause excessive load torque on both the slider of the electric actuator and the internal mechanical structure, which may reduce tservice life of the product .





- When designing or selecting jigs and fixtures, it is recommended to choose jigs and fixtures as small and light as possible .

- when using out- of- range or over- weight fixtures, it will cause gripper to suffer from excessive opening and closing inertia forces and bending load moments, resulting in negative impacts such as performance degradation or shortened the service life of guide rail .

Illustration of I/O Input and Output Signals

Input Signal

Number	IN 0	IN 1	IN 2	Description
1				Open to the limit stroke with 100% force
2		■		Position to 2mm stroke with 100% force
3			■	Position to 4mm stroke with 100% force
4		■	■	Open to the limit stroke with 50% force
5	■			Clamp to the limit stroke with 100% force
6	■	■		Clamp to limit stroke with 75% force
7	■		■	Clamp to limit stroke with 50% force
8	■	■	■	Clamp to limit stroke with 25% force

Output signal

Number	OUT 0	OUT 1	OUT 2	Description
1				In Motion
2		●		Opened to full position or moved to set position - detected that no outward workpiece, or - detected that the outward workpiece is falling
3		●	■	Opened to full position and detected that there is outward workpiece
4	■			Clamped to set position, and detected that there is no workpiece or the workpiece is dropped
5	■	●		Clamped to set position and detected the workpiece
6			●	Haven't moved to set position and the force reaches 100%
7	■	●	■	Equipment in abnormal conditions

注:

■ : is the signal input on state, if blank, it is off state

● : is the signal output on state, if blank then off state