



Features



User manual



Selector table



Applications



Features

- Self-locking mechanism prevents loosening, ensuring secure and reliable gripping.
- Compatible with seven types of gripper jaws to meet diverse needs.
- Provides five mounting surfaces for flexible adaptation to various applications.
- Integrated motor and controller offer a space-saving, compact design.
- Operated via I/O signals for quick and straightforward control.
- Three adjustable gripping force levels allow flexibility for different workpieces.

Motor type Step motor Transmission Lead screw

Environment Standard Guide type Linear guide

Specification

Model	MEHC3	
Size	16	25
Total jaw stroke (mm)	6	14
Gripping force *1	Level 1 (N)	12
	Level 2 (N)	17
	Level 3 (N)	22
Opening / Closing time (sec)	0.5	
Transmission	Lead screw	
Guide type	Non-recirculating linear bearings	
Repeatability *2 (mm)	±0.02	
Operating temperature (°C)	5 ~ 40	
Operating humidity (%RH)	<85 (Non-condensing, no dew formation)	
Control method	I/O, Built-in controller	
I/O interface	Input	3 points (PNP) 3 points (NPN)
	Output	1 point (NPN) 1 point (NPN)
Rated voltage (V)	DC24 ±10%	
Power consumption *3	Standby (W)	1 1
	Level 1 (W)	3 3
	Level 2 (W)	6 5
	Level 3 (W)	9 7
Weight (kg)	0.3	0.8

*1. Gripping force tolerance ± 20%.

*2. The offset value of the gripped item under the same gripping parameters.

*3. The power consumption indicated for each gripping force level represents the instantaneous maximum power consumption.

Order example

MEHC3 — 16 — N — 005

Model

Size

16

25

I/O+Power cable length

005

0.5 m

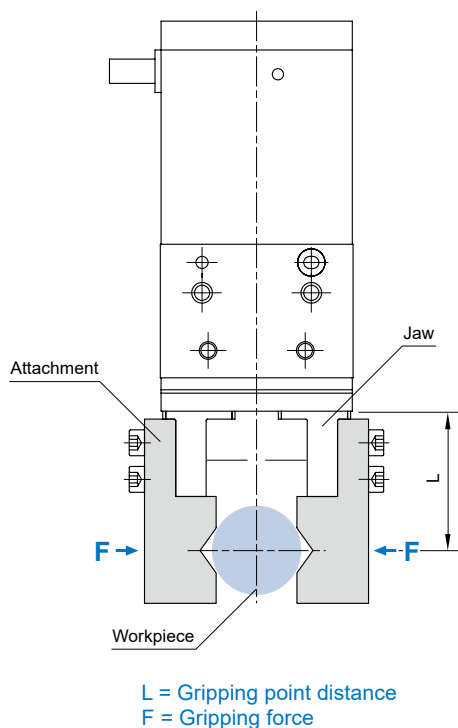
015

1.5 m (standard)

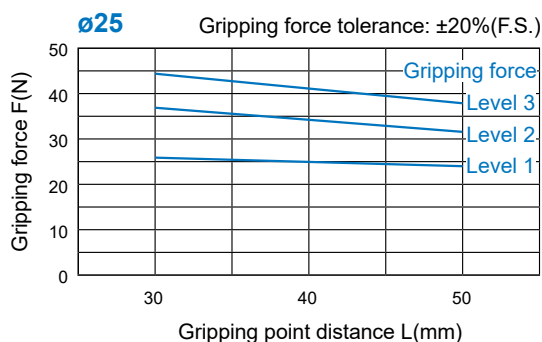
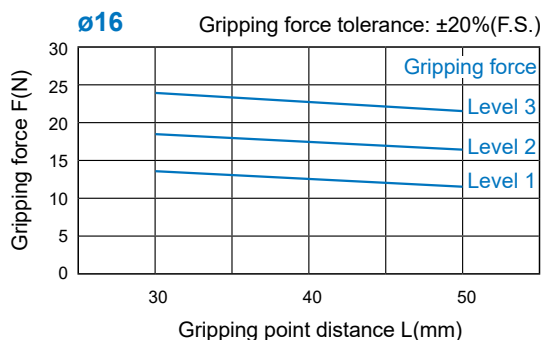
Jaw type

Blank: Standard	1: Standard (Side tapped)	2: Standard (Through hole)	3: Flat
N: Narrow	N1: Narrow (Side tapped)	N2: Narrow (Through hole)	

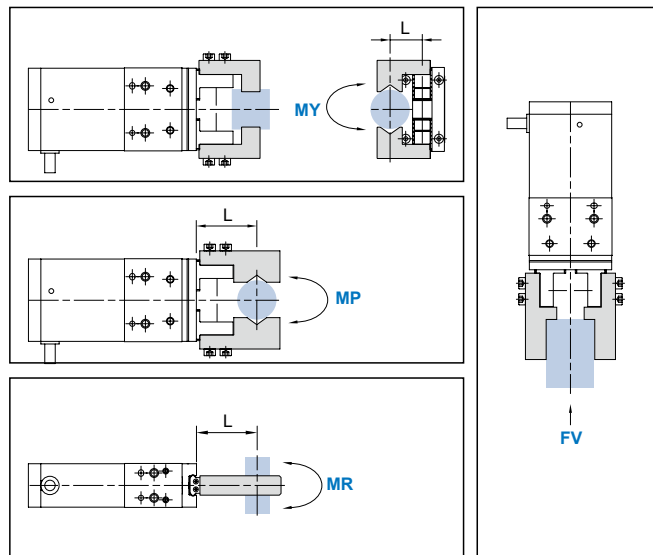
Evaluation of gripping force



Gripping force diagram



Allowable moment and force (N.m / N)



Model	MY	MP	MR	FV
	Max. moment (N.m)			Max. force (N)
MEHC3-16	0.68	0.68	1.36	98
MEHC3-25	1.94	1.94	3.88	255

*1. The force and moment values in the table are static values.

*2. When used for handling, please consider acceleration and deceleration inertia.

Pin assignment of I/O cable

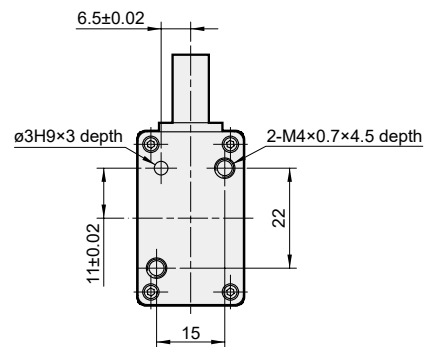
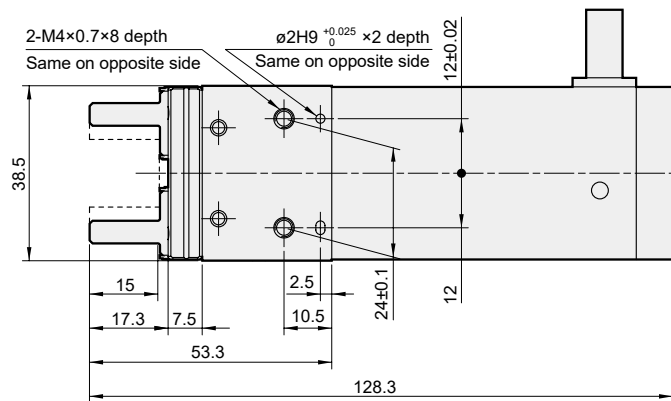
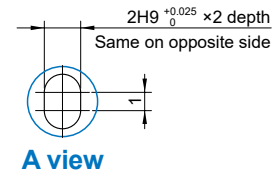
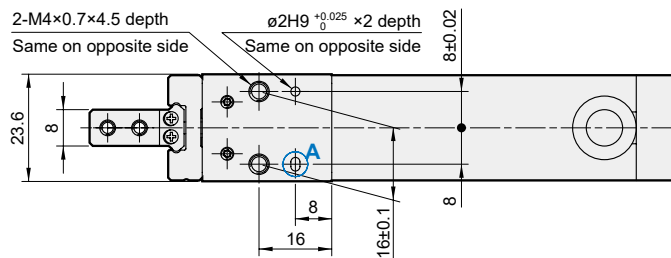
Size	16		25	
PIN No.	Function	Color	Function	Color
1	VCC (24VDC)	Red	VCC (24VDC)	Red
2	GND	Black	GND	Black
3	Input 1	Red	Input Com	Red
4	Input 2	Black	Input 1	Black
5	Input 3	Yellow	Input 2	Yellow
6	Input Com-	Yellow	Input 3	Yellow
7	Output 1	Red	Output 1	Red
8	Output 1 Com-	Black	Output 1 Com-	Black

Input 3	Input 2	Input 1	Function
Off	Off	On	Close jaws
Off	On	Off	Open jaws
On	Off	Off	Clear alarm

On	Off	On	Set level 1 gripping force
On	On	Off	Set level 2 gripping force
On	On	On	Set level 3 gripping force

Output 1	Gripping force reaches the set value
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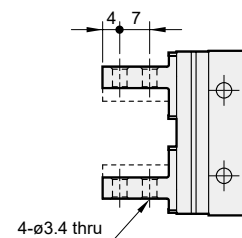
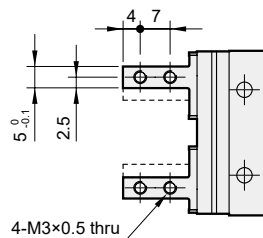
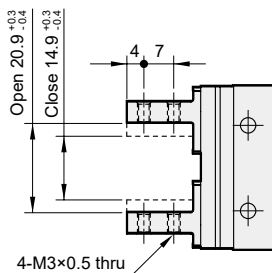
* Please carefully and thoroughly refer to the user manual for the wiring of the I/O cables.



Standard

1: Standard (Side tapped)

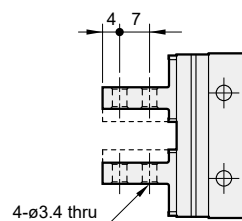
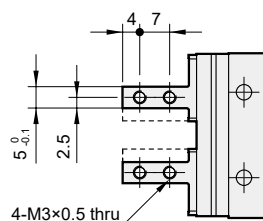
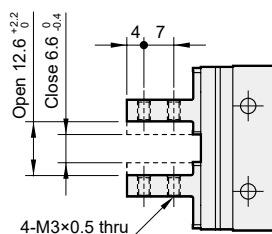
2: Standard (Through hole)



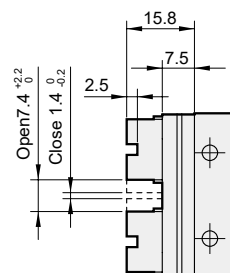
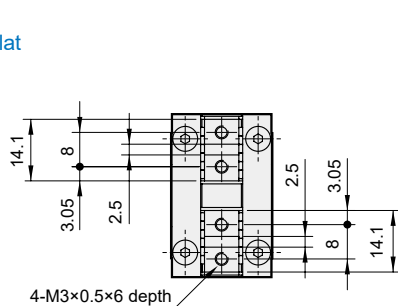
N: Narrow

N1: Narrow (Side tapped)

N2: Narrow (Through hole)



3: Flat

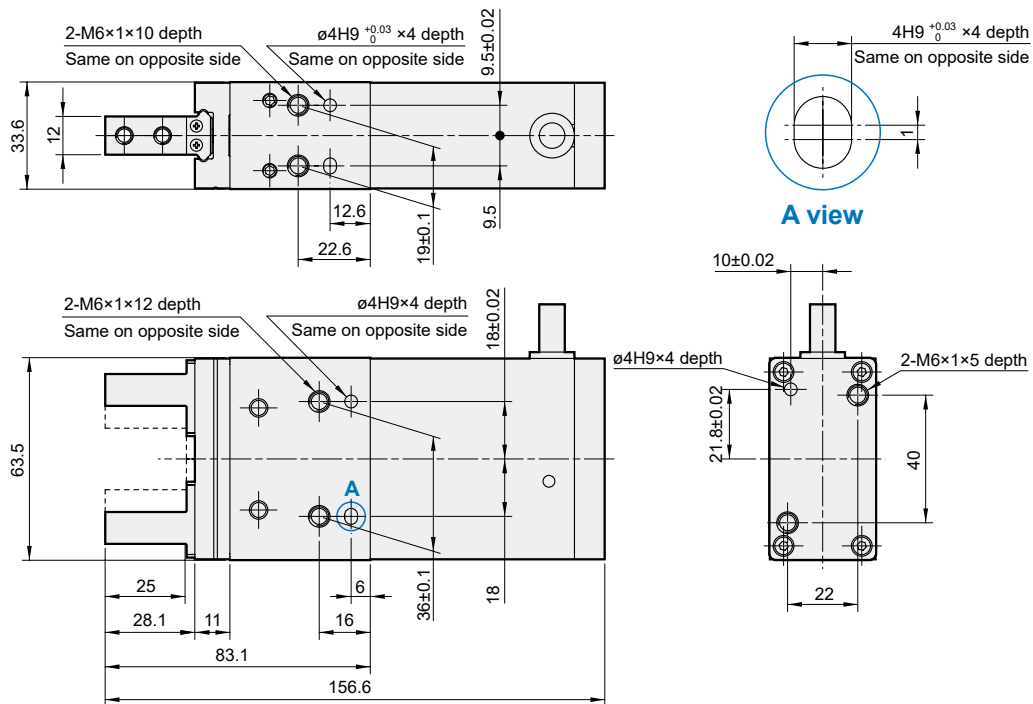


MEHC3 Dimensions 25

ELECTRIC GRIPPER (WITH MOTOR)



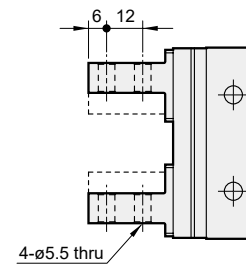
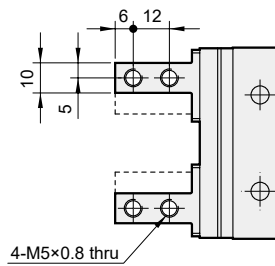
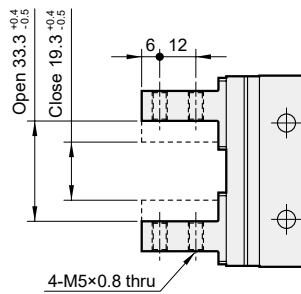
Mindman



Standard

1: Standard (Side tapped)

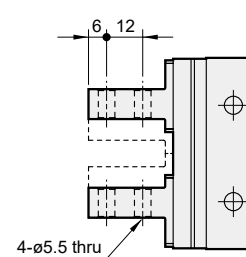
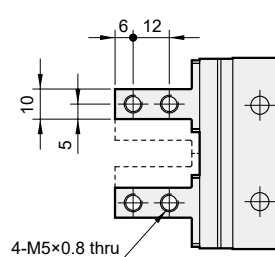
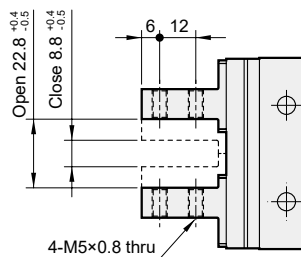
2: Standard (Through hole)



N: Narrow

N1: Narrow (Side tapped)

N2: Narrow (Through hole)



3: Flat

