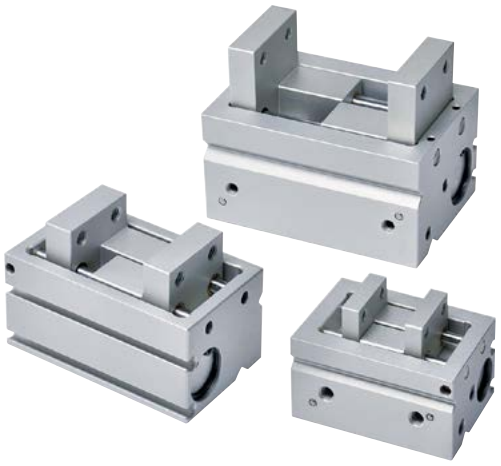
MCHU2 series

PARALLEL GRIPPER (2-Finger)

Model selection

Technical data

Caution for safety
(Read before installing)



Features

- Compact design, light weight with rugged construction.
- Jaws mounted to wear resistant bush guides.
- Magnetic as standard.

Specification

Model	MCHU2		
Acting type	Double acting		
Tube I.D. (mm)	12	16	20
Stroke	15	20	25
Fluid	Air		
Operating pressure range	0.2~0.7 MPa		
Ambient temperature	-10~+60°C (No freezing)		
Lubrication (*)	Not required		
Repeatability	±0.03 mm		
Sensor switch	RDC(V), RQC(V)		
Weight (kg)	0.16	0.29	0.58

* Sliding area of jaws need scheduled relubrication.

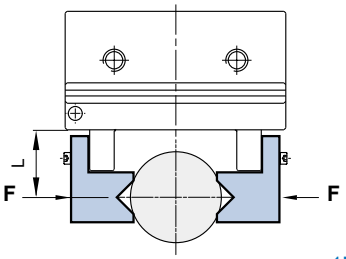
Order example

MCHU2 — 12 M

- MODEL
- TUBE I.D.: **12**, **16**, **20**
- **M**: Magnet
  * Magnetic as standard.

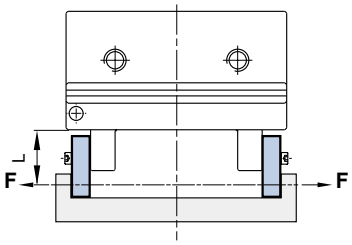
Model selection suggestions

1. For normal gripping and carrying usage, the recommended safe factor (a) is 4.
2. The value of gripping force of single finger can be found at the gripping force table.
3. The safe factor (a) have to be higher if the gripper is using at high acceleration or impact condition.



External grip

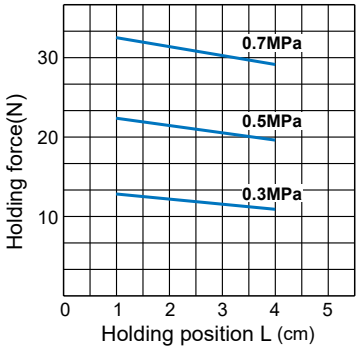
1N=0.102 kgf
1MPa=10.2 kgf/cm^2



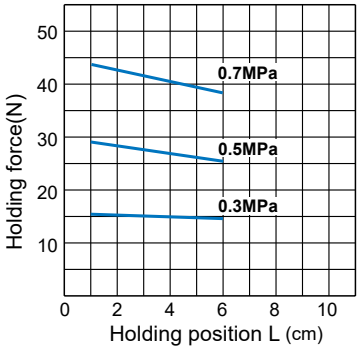
Internal grip

Capacity

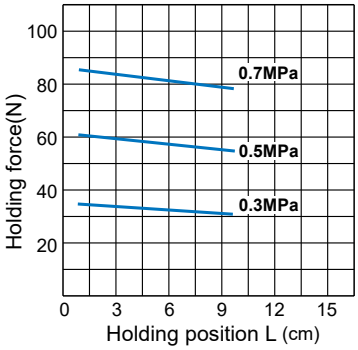
MCHU2-12



MCHU2-16

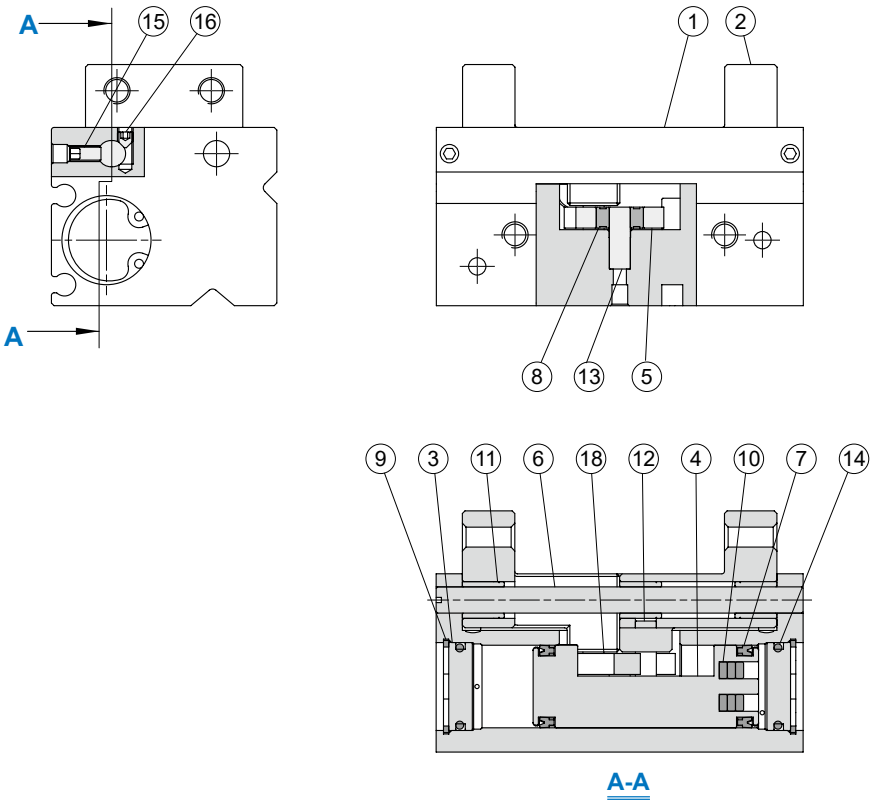


MCHU2-20



MCHU2 Inside structure & Parts list

PARALLEL GRIPPER (2-Finger)



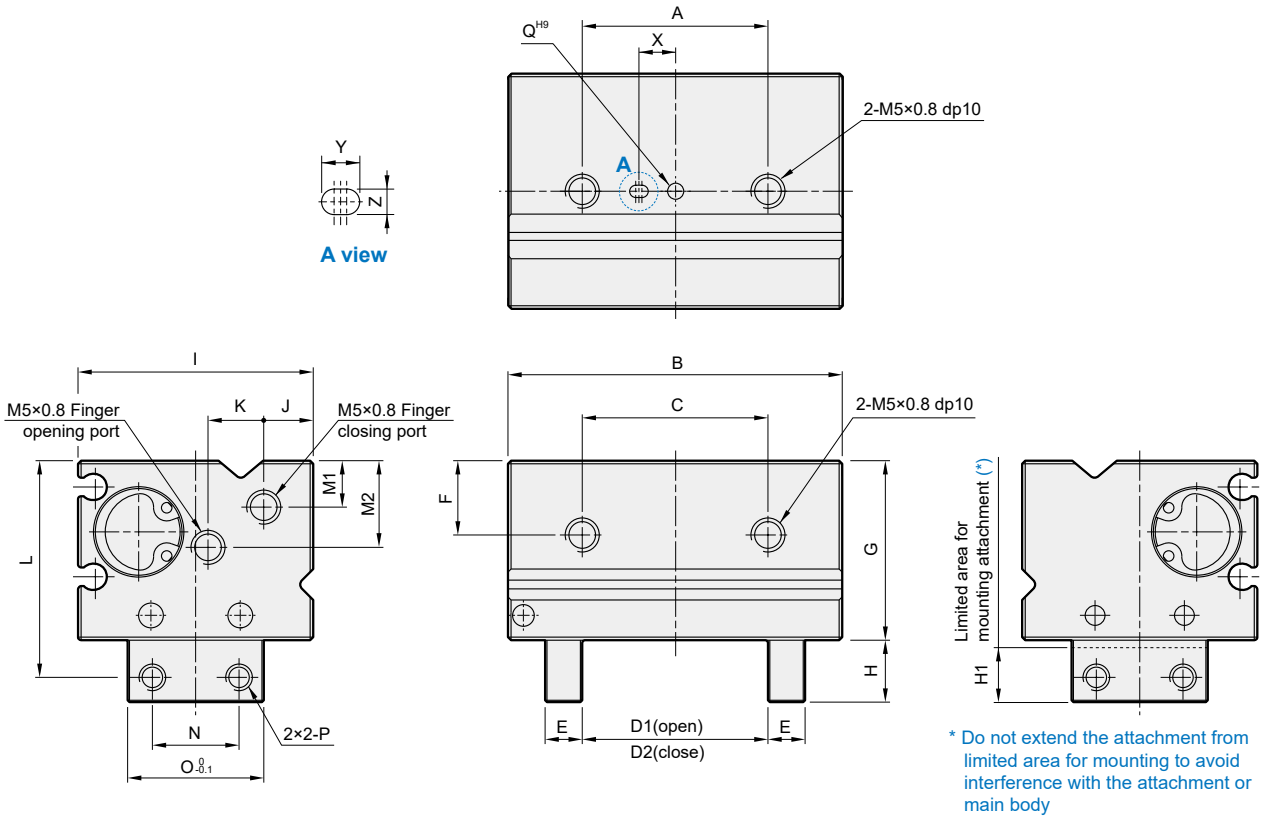
Material

No.	Part name	Material	Q'y & Tube I.D.			Repair kits (inclusion)
			12	16	20	
1	Body	Aluminum alloy		1		
2	Finger	Aluminum alloy		2		
3	Cover	Aluminum alloy		2		
4	Piston	Stainless steel		1		
5	Cam	SCM		1		
6	Guide rod	SUS		2		
7	Piston packing	NBR		2		●
8	Bearing	Bearing steel		1		
9	Snap ring	SUS		2		
10	Magnet	Magnet material	2	6	2	
11	Bush	Carbon steel		6		
12	Pin	Carbon steel		2		
13	Pin	Carbon steel		1		
14	O-ring	NBR		2		●
15	Screw	Carbon steel		4		
16	Screw	Carbon steel		2		

Order example of repair kits

Tube I.D.	Repair kits
ø12	**PS-MCHU-12**
ø16	**PS-MCHU-16**
ø20	**PS-MCHU-20**

* Use the same repair kits with MCHU series.



* Do not extend the attachment from limited area for mounting to avoid interference with the attachment or main body

Code / Tube I.D.	A	B	C	D1	D2	E	F	G	H	H1	I	J	K	L	M1	M2	N	O	P	Q H9	X	Y	Z H9
12	30	54	30	30	15	6	12	29	10	9	38	8	9	35	7.5	14	14	22	M4×0.7	ø2 $^{+0.025}_{0}$ ×2dp	6	3	2 $^{+0.025}_{0}$ ×2dp
16	40	70	40	40	20	10	13.5	34	12	11	43	8	11	41	7.5	12.5	18	30	M5×0.8	ø3 $^{+0.025}_{0}$ ×4dp	10	4	3 $^{+0.025}_{0}$ ×4dp
20	60	82	60	50	25	10	15	43	22	21	56	10	15	59	9	20	20	35	M5×0.8	ø3 $^{+0.025}_{0}$ ×6dp	15	4	3 $^{+0.025}_{0}$ ×6dp