









Order example

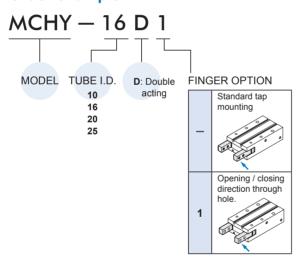
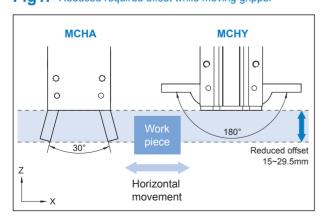


Fig1. Reduced required offset while moving gripper



Features

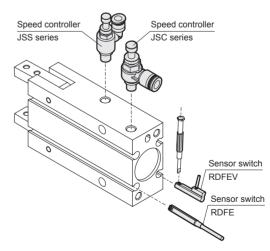
- Compact design and lightweight construction.
- High gripping forces achieved via internal cams. Reduced required offset while moving gripper. (Fig1).
- Reference points on gripping fingers are standard.
- Sensors can be mounted in any one of four positions.
- Rod seal prevents foreign objects to enter piston.

Specification

Mode	el	MCHY									
Acting Type		Double acting									
Tube I.D. (mm)		10	16	20	25						
Medium			Α	ir							
Operating pressu	re range	0.2~0.6 MPa									
Ambient tempera	ture	-10~+60°C (No freezing)									
Repeatability		±0.2 mm									
Max. operating frequ	ency (c.p.m)	60 (*1)									
Lubrication (*2)			Not re	quired							
Effective force (Nm)	at (0.5 MPa)	0.16	0.54	2.28							
Operating angle	Opened side		180°~182°								
(both sides)	Closed side	-3°									
Sensor switch	2 wire	R	RDFE(V): Non-contact								
(*3)	3 wire	RNFE(V): NPN, RPFE(V): PNP									
Weight (g)		80	150	320	600						

- *1. Speed adjust components are required while in use.
- *2. Sliding area of jaws need scheduled relubrication.
- *3. R*FE(V) specification, please refer to page 5-10.

Installation of sensor switch & speed controller



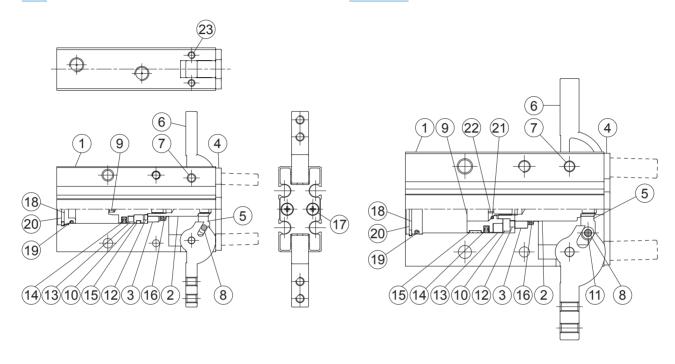
- * Each gripper needs at least two speed control valves to operate.
- * Speed controller specification, please refer to page 8-15~17 (Vol.1).



MCHY Inside structure & Parts list



180° ANGULAR GRIPPER - CAM STYLE



Material

No.	Tube I.D. Part name	10	16	20	25	Q'y	Repair kits (inclusion)
1	Body	Al	uminu	ım allo	1		
2	Piston rod	S	tainle	ss ste	el	1	
3	Bushing		Bra	ass		1	
4	Head cover	S	tainle	ss ste	el	1	
5	Lever	S	tainle	ss ste	1		
6	Gripper	S	tainle	ss ste	2		
7	Grip rivet	(Carbo	n stee	2		
8	Pin	(Carbo	n stee	I	2	
9	Piston	*1	Alum	ninum	alloy	1	
10	Magnet holder	S	tainle	ss ste	1		
11	Pin bushing	-	-	sc	CM	2	
12	Cushion pad	NBR	NBR PU				•
13	Magnet ring	Ма	agnet	mater	ial	1	
14	Piston packing		NE	3R		1	•
15	Wear ring		Tef	lon		1	
16	Rod packing		NE	3R		1	•

No.	Tube I.D. Part name	10	16	20	25	Q'y	Repair kits (inclusion)
17	Screw	S	tainle	ss ste	2		
18	Rod cover	1					
19	O-ring		1	•			
20	Snap ring	*2	Stair	nless	steel	1	
21	O-ring	_		NBR	1	•	
22	Hexagon Bolt	_	Stair	nless	steel	1	
23	Scew	S	tainle	ss ste	4		

^{*1.} Stainless steel *2. Carbon steel

Order example of repair kits

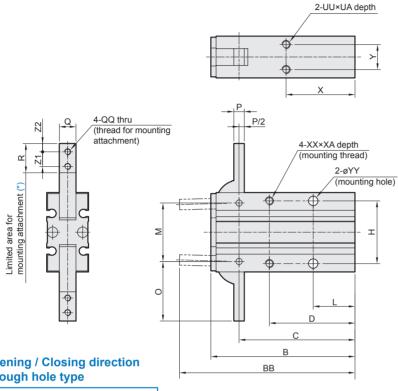
Tube I.D.	Repair kits
ø10	PS-MCHY-10
ø16	PS-MCHY-16
ø20	PS-MCHY-20
ø25	PS-MCHY-25



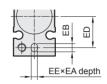
MCHY Dimensions Ø10~Ø25

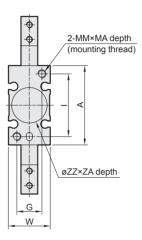




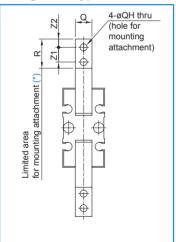


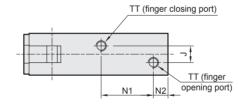
Pin hole postioning



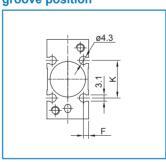


Opening / Closing direction through hole type





Auto switch mounting groove position



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

Code Tube I.D.	Α	В	ВВ	С	D	EE	EA	EB	ED	F	G	Н	-1	J	K	L	M	MA	MM	N1	N2	0	Р	Q	QH	QQ
10	30	58	71	47.5	35	3H9 ^{+0.025} ₋₀	3	4	9	2	9	24	24	3	13	18	22	6	M3×0.5	23	7	23.5	4	6 -0.005 -0.025	3.4	M3×0.5
16	38	69	84	55.5	41	3H9 ^{+0.025}	3	4	15	2.5	12	30	30	8	18	20	28	8	M4×0.7	25	7	28.5	5	8 -0.005	3.4	M3×0.5
20	48	86	106	69	50	4H9 ^{+0.030} ₋₀	4	5	19	3	16	36	38	12	20	25	36	10	M5×0.8	32	8	37	8	10 -0.005	4.5	M4×0.7
25	58	107	131	86	60	4H9 ^{+0.030} ₋₀	4	5	23	3	18	42	46	14	24	30	45	12	M6×1	42	8	45	10	12 -0.005	5.5	M5×0.8

Code Tube I.D.	R	TT	UA	UU	W	Х	XΑ	XX	Υ	YY	ZA	ZZ	Z1	Z2
10	12	M5×0.8	4	M3×0.5	15	30	6	M3×0.5	9	3.4	1.5	11H9 ^{+0.043}	6	3
16	14	M5×0.8	5	M4×0.7	20	33	8	M4×0.7	12	4.5	1.5	17H9 ^{+0.043}	7	4
20	18	M5×0.8	8	M5×0.8	26	42	10	M5×0.8	14	5.5	1.5	21H9 ^{+0.052}	9	5
25	22.5	M5×0.8	10	M6×1	30	50	12	M6×1	16	6.6	1.5	26H9 +0.052	12	6

