MCHG2 series

LOWER HEIGHT OF THREE JAW **GRIPPER**

Features

- Through holes in body enable simple mounting.
- Body manufactured from high tensile, anodised aluminum giving good resistance to corrosion.
- Available with sensors.

Order example

MCHG2 – 16 M

- MODEL: MCHG2
- TUBE I.D.: 16, 25, 32, 40, 50, 63, 80, 100, 125
- **M**: Magnet

Auto switch type

RT × 1

- RT: AUTO SWITCH TYPE
- 1: NUMBER of AUTO SWITCH

perpendicular	in-line		style
RTV	RT	RK	Reed switch
RTNV	RTN	RKN	NPN
RTPV	RTP	RKP	PNP

for φ32~125

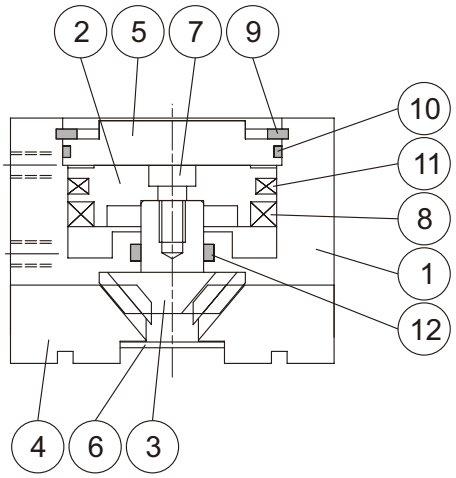
for φ16~25

※ RT specification, please refer to page **5-14**.

Specification

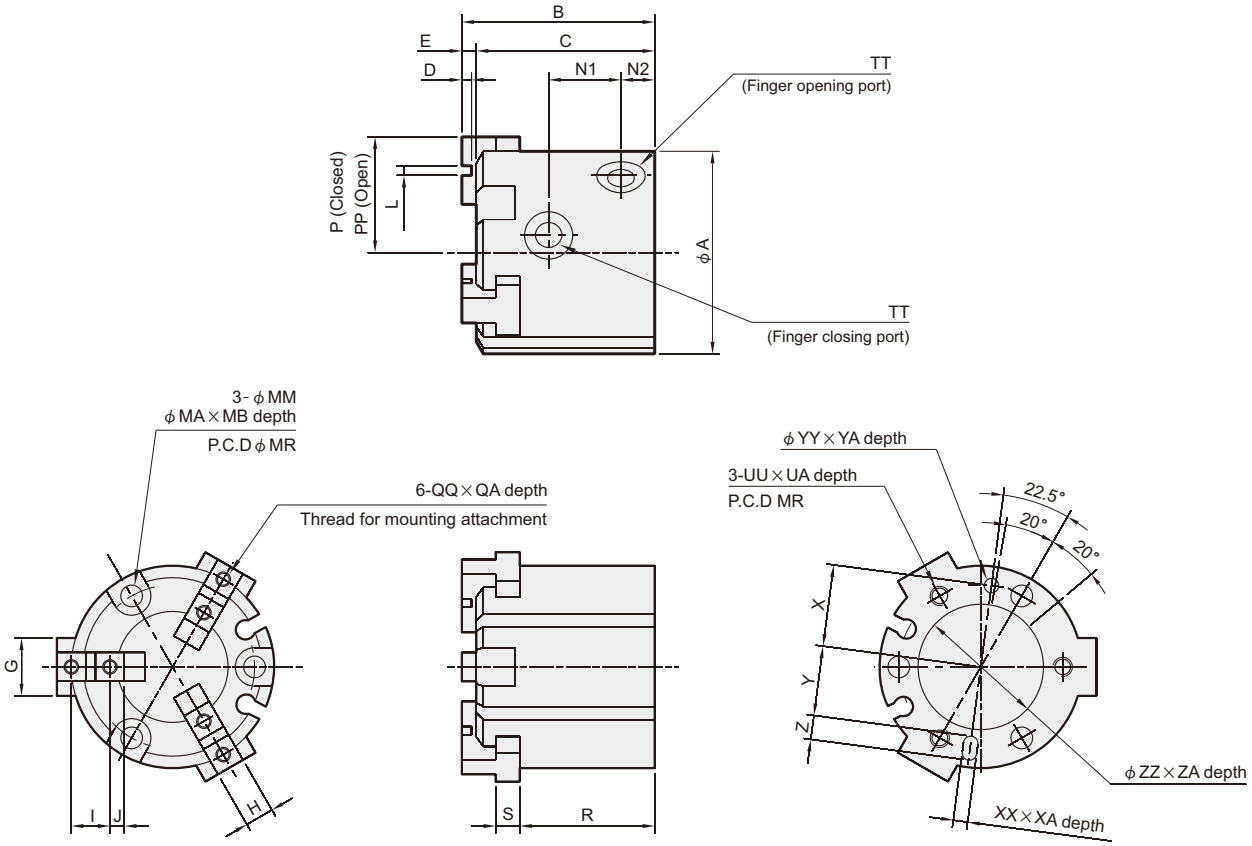
Model		MCHG2-16	MCHG2-25	MCHG2-32	MCHG2-40	MCHG2-50	MCHG2-63	MCHG2-80	MCHG2-100	MCHG2-125
Acting type		Double acting								
Tube I.D. (mm)		16	25	32	40	50	63	80	100	125
Stroke (mm)		4	6	8	8	12	16	20	24	32
Medium		Air								
Operating pressure (MPa)		0.2~0.6		0.1~0.6						
Ambient temperature		−10~+60℃ (No freezing)								
Repeatability		±0.01 mm								
Max. operating frequency(c.p.m)		120		60				30		
Lubrication		Not required								
Effective gripping force N (lbf) at (0.5 MPa)	External	14(3.1)	42(9.4)	74(6.6)	118(26.5)	187(42)	335(75)	500(112)	750(169)	1270(285)
	Internal	16(3.6)	47(10.6)	82(18.4)	130(29)	204(46)	359(81)	525(118)	780(175)	1320(297)
Weight (g)		80	150	240	400	540	1020	1880	3300	6200

- Open and closed diameter values apply for external gripping of work pieces.



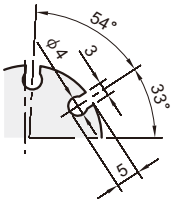
Material

No.	Part name	Material
1	Body	Aluminum alloy
2	Piston	Aluminum alloy
3	Cam	Carbon steel
4	Finger	Carbon steel
5	Cap	Aluminum alloy
6	End plate	Stainless steel
7	Piston bolt	Stainless steel
8	Magnet ring	Magnet material
9	Snap ring	Carbon steel
10	Cover ring	NBR
11	Piston packing	NBR
12	Rod packing	NBR

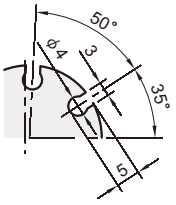


Auto switch mounting groove position

ϕ16



ϕ25



Code / Tube I.D.	A	B	C	D	E	G	H	I	J	L	MA	MB	MM	MR	N1	N2	P	PP	QA	QQ	R	S	TT	UA
16	30	35	32	2	3	8	$5h9^{+0}_{-0.030}$	6	2	$2H9^{+0.025}_{-0}$	6	8	3.4	25	11	7	15	17	5	M3×0.5	25	4	M3×0.5	4.5
25	42	40	37	2	3	12	$6h9^{+0}_{-0.030}$	8	3	$2H9^{+0.025}_{-0}$	8	10	4.5	34	15	7	21	24	6	M3×0.5	28	5	M5×0.8	6

Code / Tube I.D.	UU	X	XA	XX	Y	YA	YY	Z	ZA	ZZ
16	M3×0.5	12.5	2	$2H9^{+0.025}_{-0}$	11	2	$2H9^{+0.025}_{-0}$	3	1.5	$17H9^{+0.043}_{-0}$
25	M4×0.7	17	3	$2H9^{+0.025}_{-0}$	14.5	3	$3H9^{+0.025}_{-0}$	5	1.5	$26H9^{+0.052}_{-0}$

MCHG2 Dimensions ϕ32~ϕ80

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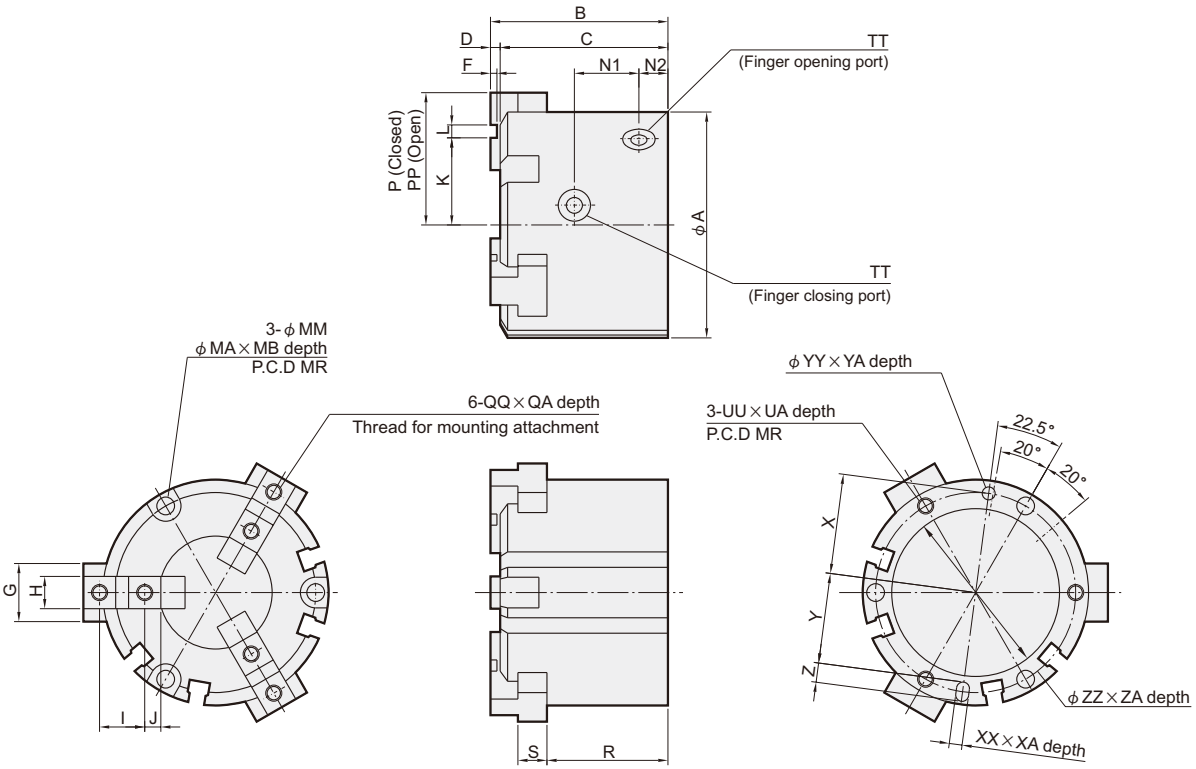
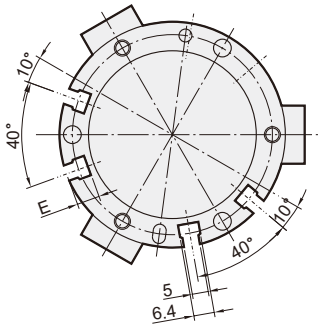


Auto switch mounting groove position

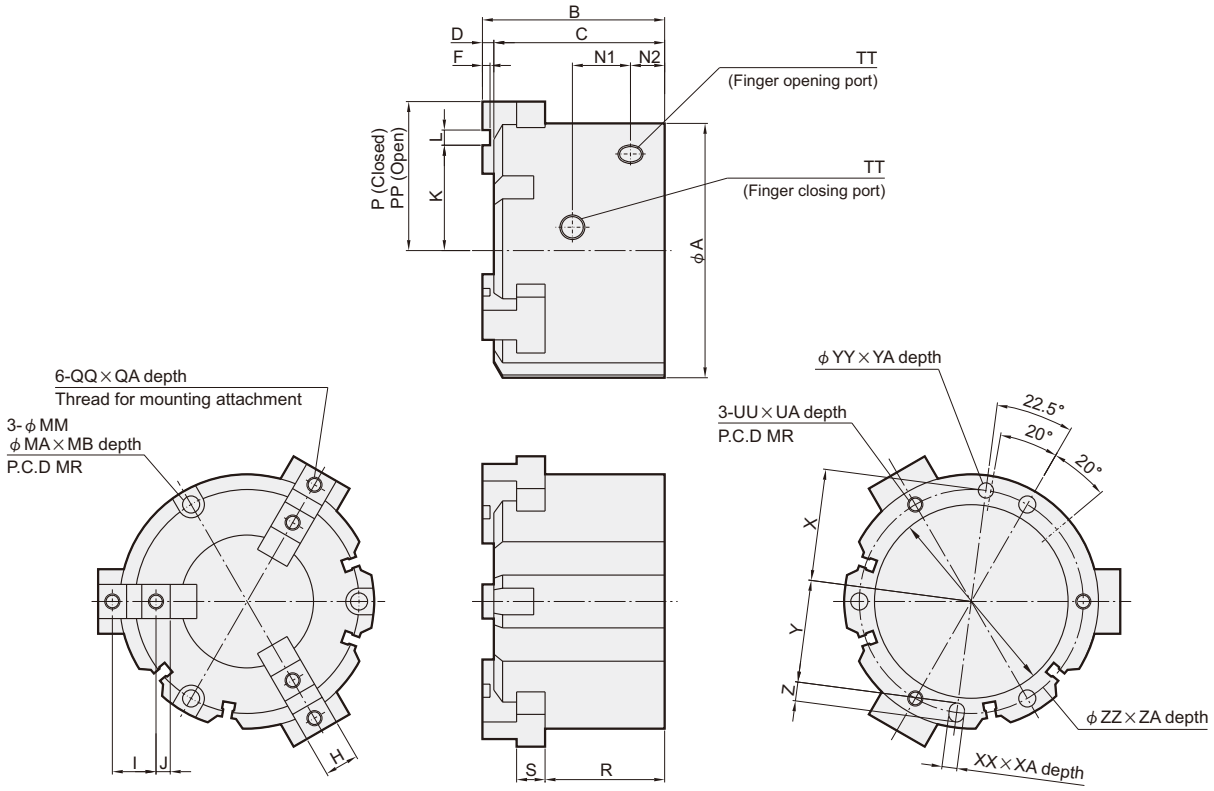


Code / Tube I.D.	A	B	C	D	E	F	G	H	I	J	K	L	MA	MB	MM	MR	N1	N2	P	PP	QA	QQ	R	S	TT
32	52	44	41	3	6	2	14	8h9 $^{+0}_{-0.036}$	11	4.5	17	2H9 $^{+0.025}_{-0}$	8	9	4.5	44	16	8	28	32	8	M4×0.7	30.5	6	M5×0.8
40	62	47	44	3	8	2	16	8h9 $^{+0}_{-0.036}$	12	4.5	19	3H9 $^{+0.025}_{-0}$	9.5	9	5.5	53	17	9	31	35	8	M4×0.7	32	7	M5×0.8
50	70	55	52	3	7	2	18	10h9 $^{+0}_{-0.036}$	14	5	21	4H9 $^{+0.030}_{-0}$	9.5	12	5.5	62	20	9	35	41	10	M5×0.8	37.5	9	M5×0.8
63	86	66	62	4	7.5	3	24	12h9 $^{+0}_{-0.043}$	17	5.5	26	6H9 $^{+0.030}_{-0}$	11	14	6.6	76	22	12	43	51	10	M5×0.8	44	11	M5×0.8
80	106	82	77	5	9	4	28	14h9 $^{+0}_{-0.043}$	20	6	33.5	8H9 $^{+0.036}_{-0}$	11	19	6.6	95	27	13.5	53.5	63.5	12	M6×1	56	12	Rc1/8

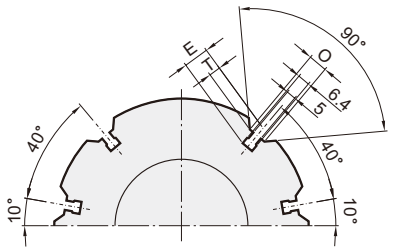
Code / Tube I.D.	UA	UU	X	XA	XX	Y	YY	Z	ZA	ZZ
32	6	M4×0.7	22	3	3H9 $^{+0.025}_{-0}$	19.5	3H9 $^{+0.025}_{-0}$	5	2	34H9 $^{+0.062}_{-0}$
40	7.5	M5×0.8	26.5	4	4H9 $^{+0.030}_{-0}$	23.5	4H9 $^{+0.030}_{-0}$	6	2	42H9 $^{+0.062}_{-0}$
50	10	M5×0.8	31	4	4H9 $^{+0.030}_{-0}$	28	4H9 $^{+0.030}_{-0}$	6	2	52H9 $^{+0.074}_{-0}$
63	9	M6×1	38	5	5H9 $^{+0.030}_{-0}$	34.5	5H9 $^{+0.030}_{-0}$	7	2.5	65H9 $^{+0.074}_{-0}$
80	12	M6×1	47.5	6	6H9 $^{+0.030}_{-0}$	43.5	6H9 $^{+0.030}_{-0}$	8	3	82H9 $^{+0.087}_{-0}$

MCHG2 Dimensions ϕ100, ϕ125

LOWER HEIGHT OF THREE JAW **GRIPPER**



Auto switch mounting groove position (4 places)



Code / Tube I.D.	A	B	C	D	E	F	G	H	I	J	K	L	MA	MB	MM	MR	N1	N2	O	P	PP	QA	QQ	R	S	T
100	134	96	90	6	13	4	34	$18h9^{+0}_{-0.043}$	23	7.5	43	$8H9^{+0.036}_{-0}$	14	21	9	118	30.6	18	10	66	78	16	M8×1.25	63	15	5
125	166	122	114	8	15	6	40	$22h9^{+0}_{-0.052}$	31	10.5	50	$10H9^{+0.036}_{-0}$	17.5	34	11	148	38	23.5	12	82	98	20	M10×1.5	84	18	7

Code / Tube I.D.	TT	UA	UU	X	XA	XX	Y	YA	YY	Z	ZA	ZZ
100	Rc1/4	16	M8×1.25	59	6	$8H9^{+0.036}_{-0}$	54	6	$8H9^{+0.036}_{-0}$	10	4	$102H9^{+0.087}_{-0}$
125	Rc3/8	20	M10×1.5	74	8	$10H9^{+0.036}_{-0}$	68	8	$10H9^{+0.036}_{-0}$	12	6	$130H9^{+0.100}_{-0}$