MCHG2 series

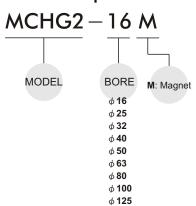
LOWER HEIGHT of THREE JAW GRIPPERS



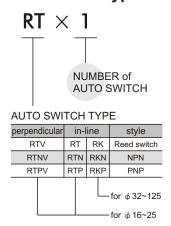
Features:

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

Order example:



Auto switch type:



Specification:

Model		MCHG2-16	MCHG2-25	MCHG2-32	MCHG2-40	MCHG2-50	MCHG2-63	MCHG2-80	MCHG2-100	MCHG2-125					
Acting type						Double acting	g								
Tube I.D. (mm)		16	25	32	40	50	63	80	100	125					
Stroke (mm)		4	4 6 8 8 12 16 20 24												
Medium			Air												
Operating pressure ((kgf/cm²)	2~6 1~6													
Ambient temperature	!	-10~+60°C (No freezing)													
Repeatability															
Max.operating freque	ency(c.p.m)	120 60 30													
Lubrication															
*Effective	External	14(3.1)	42(9.4)	74(16.6)	118(26.5)	187(42)	335(75)	500(112)	750(169)	1270(285)					
gripping force N(lbf) at (5kgf/cm²)	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					

[※] Values for 16 to 25 are with gripping point L=20mm, for 32 to 63 with gripping point L=30mm, and for 80 to 125 with gripping point L=50mm, Refer to the

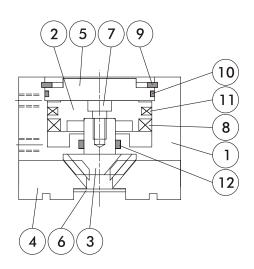
"Effective Holding force" data on pages 5 through 6 for the gripping force at each gripping position.

[•] Open and closeed diameter values apply for external gripping of work pieces.

MCHG2 Inside structure & Parts list



LOWER HEIGHT of THREE JAW GRIPPERS



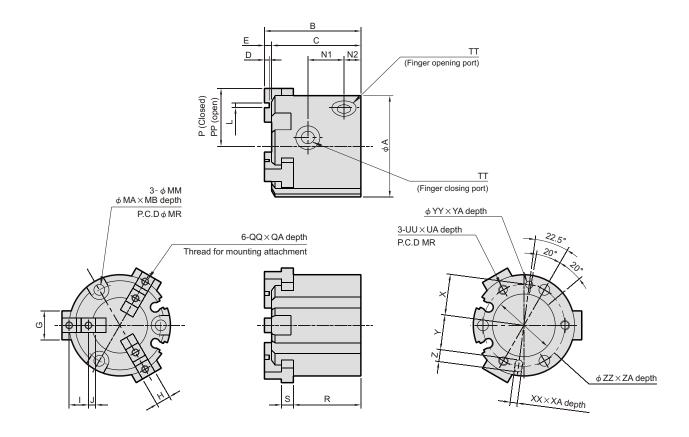
Material

No.	Part name	Material
1	Body	Aluminum alloy
2	Piston	Aluminum alloy
3	Cam	Carbon steel
4	Finger	Carbon steel
5	Сар	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

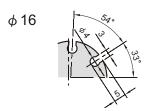
MCHG2 Dimensions ϕ 16, ϕ 25

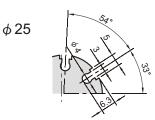


LOWER HEIGHT of THREE JAW GRIPPERS



Auto switch mounting groove position





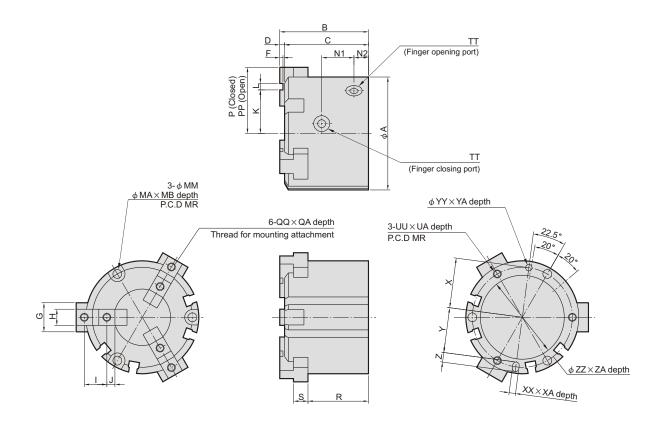
Code Tube I.D.	Α	В	С	D	Е	G	Н	ı	J	L	MA	MB	MM	MR	N1	N2	Р	PP	QA	QQ	R	S	TT	UA
16	30	35	32	2	3	8	5h9 ⁺⁰ _{-0.030}	6	2	2H9 ^{+0,025} ₋₀	6	8	3.4	25	11	7	15	17.5	5	M3×0.5	25	4	$M3 \times 0.5$	4.5
25	42	40	37	2	3	12	6h9 ⁺⁰ _{-0.030}	8	3	2H9 ^{+0,025} ₋₀	8	10	4.5	34	15	7	21	24	6	$M3 \times 0.5$	28	5	$M5 \times 0.8$	6

Code Tube I.D.	UU	Х	XA	XX	Υ	YA	YY	Z	ZA	ZZ
16	M3×0.5	12.5	2	2H9 ^{+0,025} ₋₀	11		2H9 ^{+0,025}	3	1.5	17H9 ^{+0,043}
25	M4×0.7	17	3	2H9 ^{+0,025} ₋₀	14.5	3	3H9 ^{+0,025}	5	1.5	26H9 ^{+0,052}

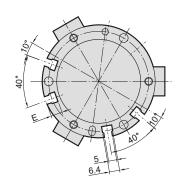
MCHG2 Dimensions \$\phi 32^{\sigma 680}\$



LOWER HEIGHT of THREE JAW GRIPPERS



Auto switch mounting groove position



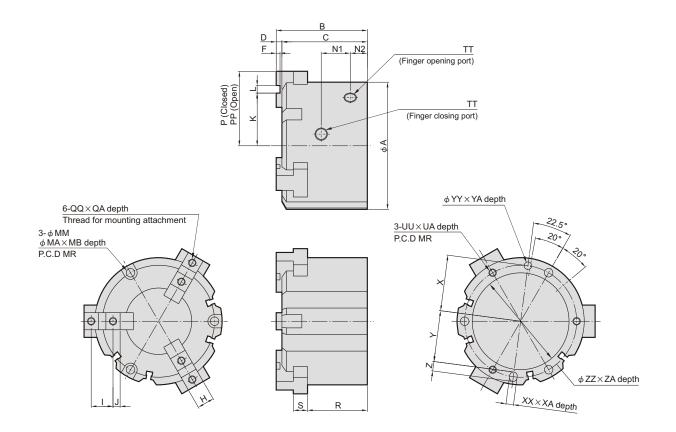
Code Tube I.D.	Α	В	С	D	Е	F	G	Н	1	J	K	L	MA	МВ	ММ	MR	N1	N2	Р	PP	QA	QQ	R	S	TT
32	52	44	41	3	6	2	14	8h9 ⁺⁰ _{-0.036}	11	4.5	17	2H9 ^{+0,025} ₋₀	8	9	4.5	44	16	8	28	32	8	M4×0.7	30.5	6	$M5 \times 0.8$
40	62	47	44	3	8	2	16	8h9 ⁺⁰ _{-0.036}	12	4.5	19	3H9 ^{+0,025} ₋₀	9.5	9	5.5	53	17	9	31	35	8	M4×0.7	32	7	M5×0.8
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	$M5 \times 0.8$
63	86	66	62	4	7.5	3	24	12h9 ⁺⁰ _{-0.043}	17	5.5	26	6H9 ^{+0,030}	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}	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	Х	ХА	XX	Υ	YY		ZA	ZZ
	32	6	$M4 \times 0.7$	22	3			3H9 ^{+0,025} ₋₀		2	34H9 ^{+0,062} ₋₀
Ī	40	7.5	M5×0.8	26.5	4	4H9 ^{+0,030}	23.5	4H9 ^{+0,030}	6	2	42H9 ^{+0,062}
	50	10	M5×0.8	31	4	4H9 ^{+0,030}	28	4H9 ^{+0,030}	6	2	52H9 ^{+0,074} ₋₀
	63	9	M6×1	38	5			5H9 ^{+0,030}		2.5	65H9 ^{+0,074}
	80	12	M6×1	47.5	6	6H9 ^{+0,030}	43.5	6H9 ^{+0,030}	8	3	82H9 ^{+0,087}

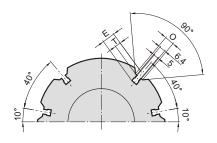
MCHG2 Dimensions ϕ 100, ϕ 125



LOWER HEIGHT of THREE JAW GRIPPERS



Auto switch mounting groove position (4 places)



Code Tube I.D.	Α	В	С	D	Е	F	G	Н	Τ	J	K	L	MA	МВ	ММ	MR	N1	N2	0	Р	PP	QA	QQ	R	S	Т
100	134	96	90	6	13	4	34	18h9 ⁺⁰ _{-0.043}	23	7.5	43	8H9 ^{+0,036}	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}	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	Υ	YA	YY	Z	ZA	ZZ
100	Rc1/4	16	M8×1.25	59	6	8H9 ^{+0,036}	54	6	8H9 ^{+0,036}	10	4	102H9 ^{+0,087} ₋₀
125	Rc3/8	20	M10×1.5	74	8	10H9 ^{+0,036}	68	8	10H9 ^{+0,036}	12	6	130H9 ^{+0,100}