

MK series rotary clamping cylinder

Technical parameters

Bore(mm)	12	16	20	25	32	40	50	63
Working medium	Double action							
Action type	Air							
Max using pressure	1.0MPa							
Min using pressure	0.1MPa							
Environment and fluid temperature	Switch with magnet: -10~+60℃, Switch with no magnet: -10~+70℃							
Using speed range	50~200mm/s							
Cushion	Rubber cushion							
Stroke tolerance	+0.6 -0.4							
Oil supply	No need							
Rotary angle	90° ±10°							
Rotary direction	Left Right							
Rotary stroke	7.5		9.5		15		19	
Clamping stroke	10 / 20						20 / 50	
Allowable torque	1	3.8	7	13	27	47	107	182
Clamping force	40	75	100	185	300	525	825	1400
Piston rod no rotary precision	±1.4°	±1.2°			±0.9°		±0.7°	
Piping size	M5×0.8				Rc1/8		Rc1/4	

MK series is standard type.

MK2 series is high load type.(Φ20~Φ63)

With the same bore, it can load greater inertia.

Chosen Type

High load type

MK2

B

20

10

Standard type

MK

A

20

10

Assembling type

() NKU MNUNRGTJ GHUNRGTJ YUUNRGTJ
IUS S UTOMX YZSTJ GY OMY GHARK
HUKO O O O O O O O
Z URTJ YZNU MNUNR
- G UTOMX YZKURGTMKZ VKOY GHARK
HUKO O O O O O O O

Bore

12: φ12mm
16: φ16mm
20: φ20mm
25: φ25mm
32: φ32mm
40: φ40mm
50: φ50mm
63: φ63mm

Clamping stroke

10: 10mm Suitable bore(12~40)
20: 20mm Suitable bore(12~63)
50: 50mm Suitable bore(50, 63)

R

F

R

F

Rotary direction

8 RUI Q OK
rotary
2 GTZ RUI Q OK
rotary

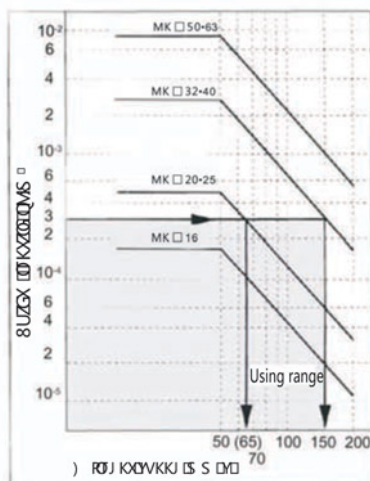
9 HKI ZUWZOTY

TUIS GQYGTJ GY DUJ KJTJ
GTZGTZNGJ
3 DUJ KJTJ IS GOMRGTUT
HUNYO KY
F: non rod side with convex
GHARK
4 O UNRGTJ

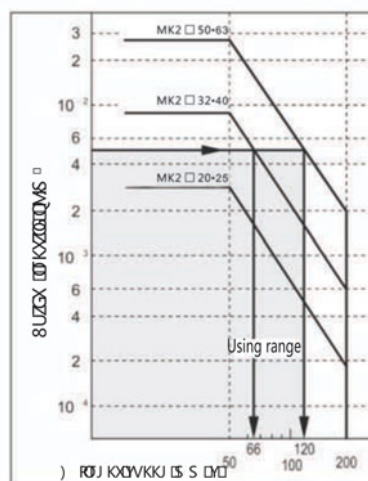
Overloaded type with no "M"

Characteristic curve

Standard type



Overloaded type

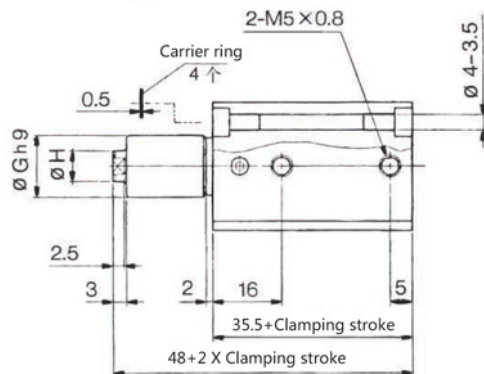
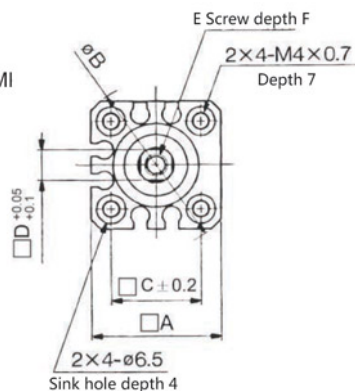


MK series rotary clamping cylinder

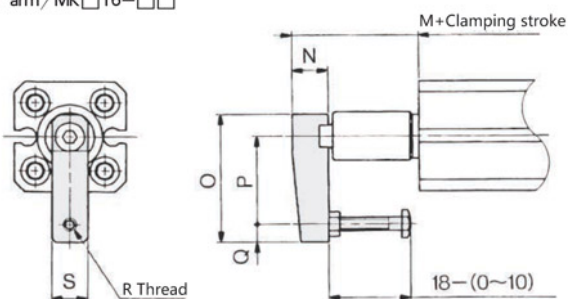
Figure Dimension

Through hole (basic type)/MI

Φ16mm



With arm/MK□16-□□



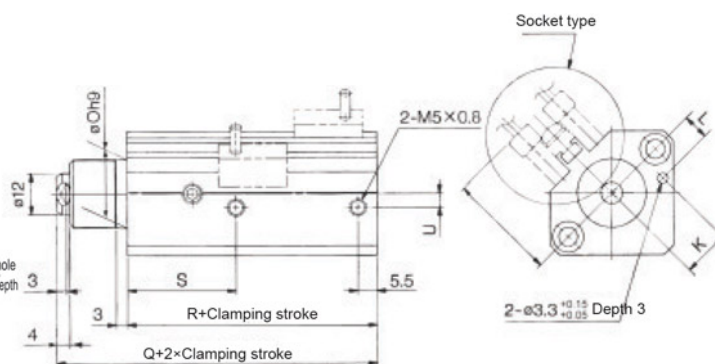
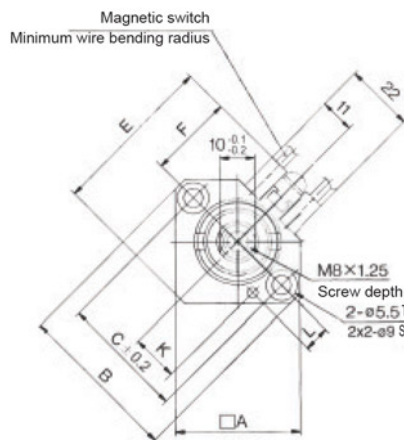
Through hole (basic type)

Model	A	B	C	D	E	F	Gh9	H
MKB16	29	38	20	7	M5X0.8	6.5	14	8

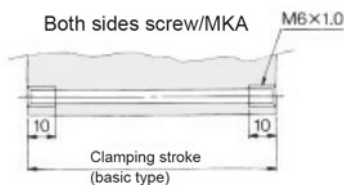
With arm

Model	M	N	O	P	Q	R	S
MK□16-□□	21.5	11	36	25	5	M4x0.7	11

Through hole (basic type)/MKB Φ20mm Φ25mm



Both sides screw/MKA



With arm

Model	A	B	C	E	F	K	L	OH9	Q	R	S	U
MKB20	36	46.8	36	48	24.5	13.5 ± 0.15	7.5 ± 0.15	20 ⁰ _{-0.052}	72.5	62	31	4
MKB25	40	52	40	53.8	27.5	16 ± 0.15	8 ± 0.15	23 ⁰ _{-0.052}	73.5	63	32	5

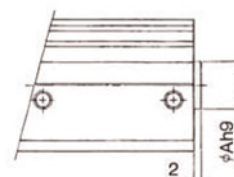
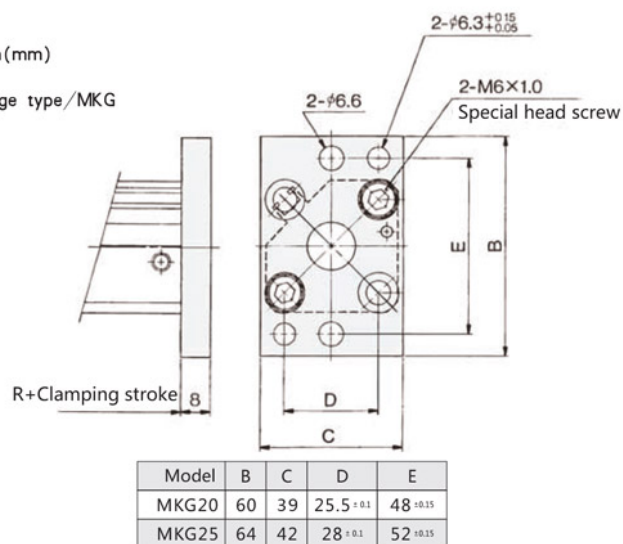
Remark: When the piston rod is fully extended, the clamping stroke and rotary stroke are added to the appropriate size.

MK series rotary clamping cylinder

Non rod side with convex table

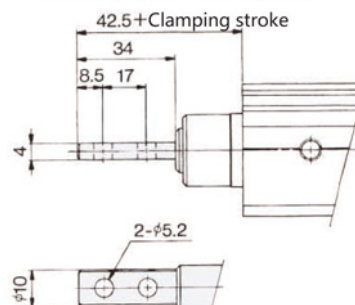
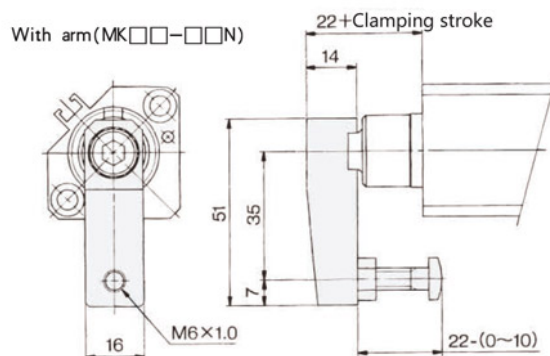
■ Figure Dimension(mm)

Non rod side flange type/MKG

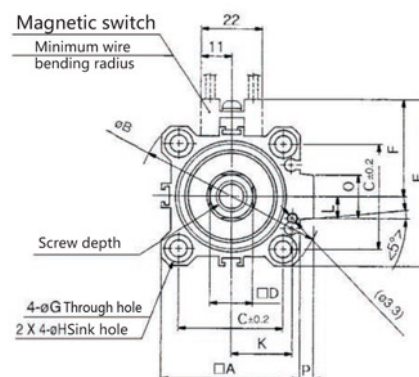
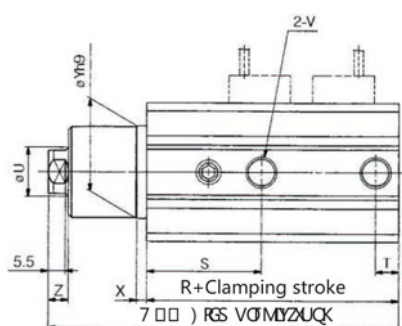
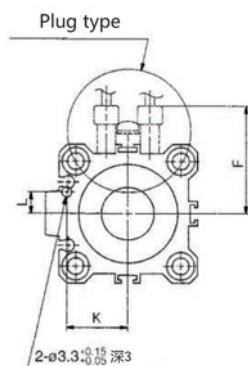


Model	Ah9
MK□20-□□F	13 ⁰ _{-0.043}
MK□25-□□F	15 ⁰ _{-0.043}

Rod end mill(MK□□-□□M)



Through hole (basic type)/MKB $\Phi 32$ $\Phi 40$ $\Phi 50$ $\Phi 63$



Model	A	B
MKA32	M6X1.0	10
MKA40	M6X1.0	10
MKA50	M8X1.25	14
MKA63	M10X1.5	18

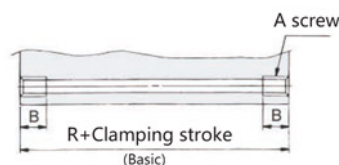
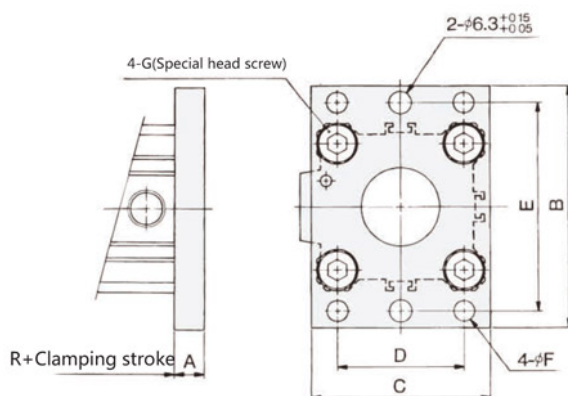


Figure Dimension(mm)

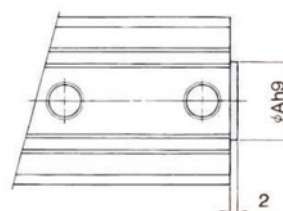
Model	A	B	C	D	E	F	G	H	I	J	K	L	O	P	Q	R	S	T	U	V	X	Yh9	Z
MKB32	45	60	34	14 ^{+0.1} _{-0.2}	54	13.5	5.5	9 Depth 7	M10X1.5	12	20 ^{+0.15}	7 ^{+0.15}	18	4.5	93.5	71.5	37	7.5	16	Rc1/8	3	30 ^{+0.062}	6.5
MKB40	52	69	40	14 ^{+0.1} _{-0.2}	61	35	5.5	9 Depth 7	M10X1.5	12	24 ^{+0.15}	7 ^{+0.15}	18	5	94.5	65	29.5	8	16	Rc1/8	3	30 ^{+0.062}	6.5
MKB50	64	86	50	17 ^{+0.1} _{-0.3}	73	41	6.6	11 Depth 8	M12X1.75	15	30 ^{+0.15}	8 ^{+0.15}	22	7	112	76.5	34	10.5	20	Rc1/4	3.5	37 ^{+0.062}	7.5
MKB63	77	103	60	17 ^{+0.1} _{-0.3}	86	47.5	9	14 Depth 10.5	M12X1.75	15	35 ^{+0.15}	9 ^{+0.15}	22	7	115	80	35	10.5	20	Rc1/4	3.5	48 ^{+0.062}	7.5

Non rod side flange type/MKG



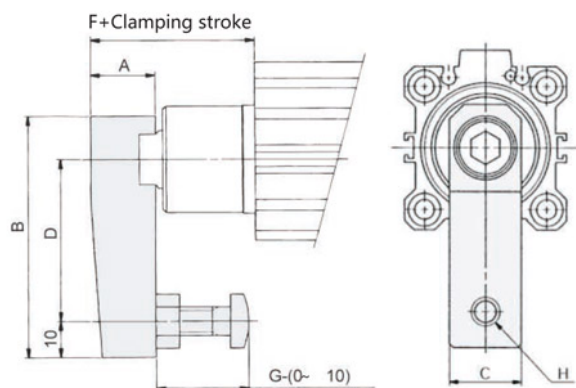
Model	A	B	C	D	E	F	C
MKG32	8	65	48	34 ± 0.1	56 ± 0.15	5.5	M6X1.0
MKG40	8	72	54	40 ± 0.1	62 ± 0.15	5.5	M6X1.0
MKG50	9	89	67	50 ± 0.1	76 ± 0.15	6.6	M8X1.25
MKG63	9	08	80	60 ± 0.1	92 ± 0.15	9	M10X1.5

Non rod side with convex table



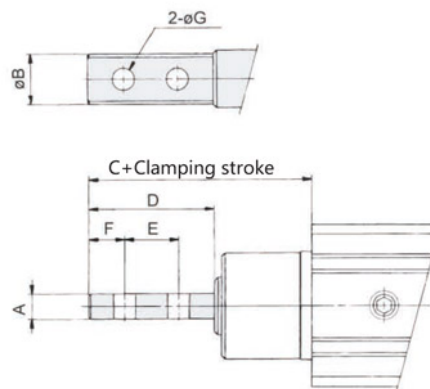
Model	Ah9
MK□32-□□F	21 ⁺⁰ _{-0.052}
MK□40-□□F	28 ⁺⁰ _{-0.052}
MK□50-□□F	35 ⁺⁰ _{-0.062}
MK□63-□□F	35 ⁺⁰ _{-0.062}

With arm



Model	A	B	C	D	F	G	H
MK□32-□□N	18	67	20	45	5.5	25	M8X1.25
MK□40-□□N	18	67	20	45	43	25	M8X1.25
MK□50-□□N	22	88	22	65	53	40	M10X1.5
MK□63-□□N	22	88	22	65	2.5	40	M10X1.5

Rod end mill



Model	A	B	C	D	E	F	G
MK□32-□□M	6	14	53.5	36	18	9	6.2
MK□40-□□M	6	14	61	36	18	9	6.2
MK□50-□□M	8	18	77	46	23	11.5	8.2
MK□63-□□M	8	18	76.5	46	23	11.5	8.2