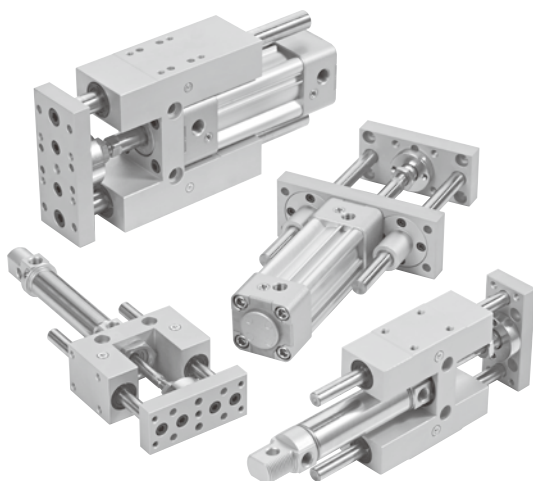


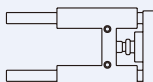


MGTK Light duty type

MGTX Light duty flange type

MGTB Heavy duty (bush) type

MGTU Heavy duty (linear bearing) type



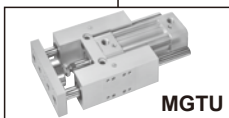
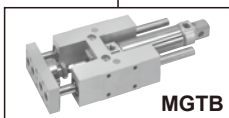
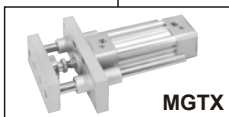
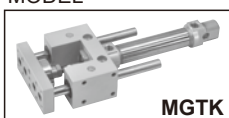
Order example

MGTB — 40 — 100 — RP

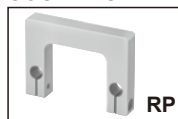
MODEL

TUBE I.D.

STROKE



REAR FLANGE
COUPLING



RP: With rear flange coupling

* Order example for special specification, refer to page 0-7.

Features

- The guide units can be assembled to cylinders that then conform to ISO6432.
- Anti rotation guaranteed by use of external guide rods.
- Four self lube bushes or linear bearings enable high loadings and consistent movement.
- Simple to install by universal mounting holes.
- For $\phi 32 \sim \phi 63$ MGTB / U / X is standard with adjustable cushion.
- Flush fitting reed switch.
- Magnetic as standard.

Specification

Model	MGTB, MGTU					
	MGTK		MGTX			
Tube I.D. (mm)	20	25	32	40	50	63
Port size	G1/8		G1/8	G1/4		G3/8
The range of stroke (mm)	Stroke by request					
Medium	Air					
Operating pressure range	0.2~0.7 MPa					
Ambient temperature	-5~+60°C (No freezing)					
Lubrication	Cylinder	Not required				
	Guide (*)	Lubricating grease				
Available speed range	50~500 mm/sec					
Sensor switch	RCM		RCI			
Sensor switch holder	BM20	BM25	—			

* Periodically refill of the Lubricating grease is required to enhance the lubricative grade and its lifetime.

RCM sensor switch specification

Model	RCM	RDM	RNM	RPM
Switch type	Reed switch	Without contact	NPN current sinking	PNP current sourcing
Voltage range	5~240V DC/AC	10~30V DC	5~28V DC	
Current range	100mA max.	50mA max.		
Shock resistance	30G	50G		

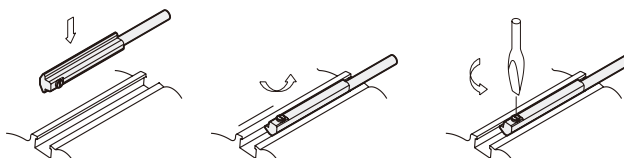
* RCM specification, please refer to page 8-13.

RCI sensor switch specification

Model	RCI	RCI-N	RCI-P	RNI	RPI
Switch type	Reed switch	NPN Reed switch	PNP Reed switch	NPN current sinking	PNP current sourcing
Voltage range	5-240V DC/AC	10 ~ 30V DC			
Current range	100mA max.	500mA max.		200mA max.	
Shock resistance	30G			50G	

* RCI specification, please refer to page 8-11.

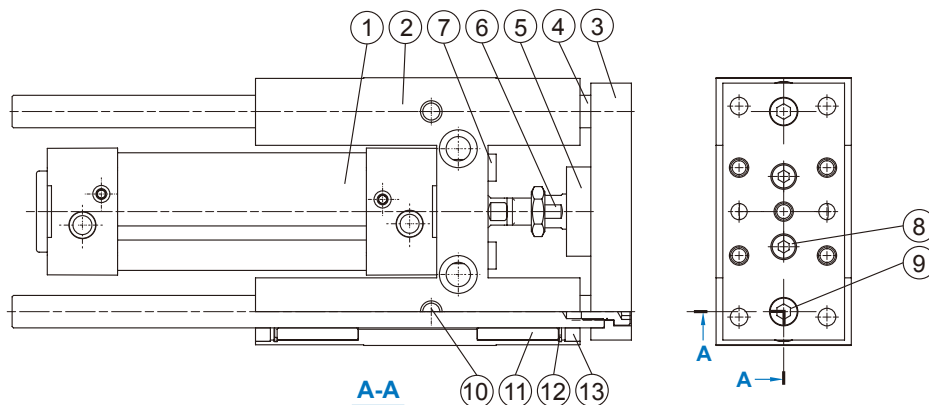
Mounting



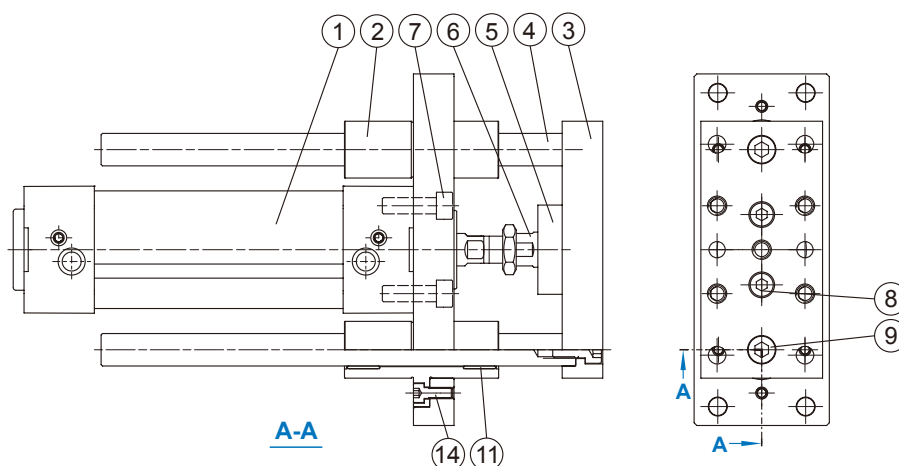
MGT* Inside structure & Parts list

TWIN-GUIDE CYLINDER

MGTB,MGTU,MGTK



MGTX

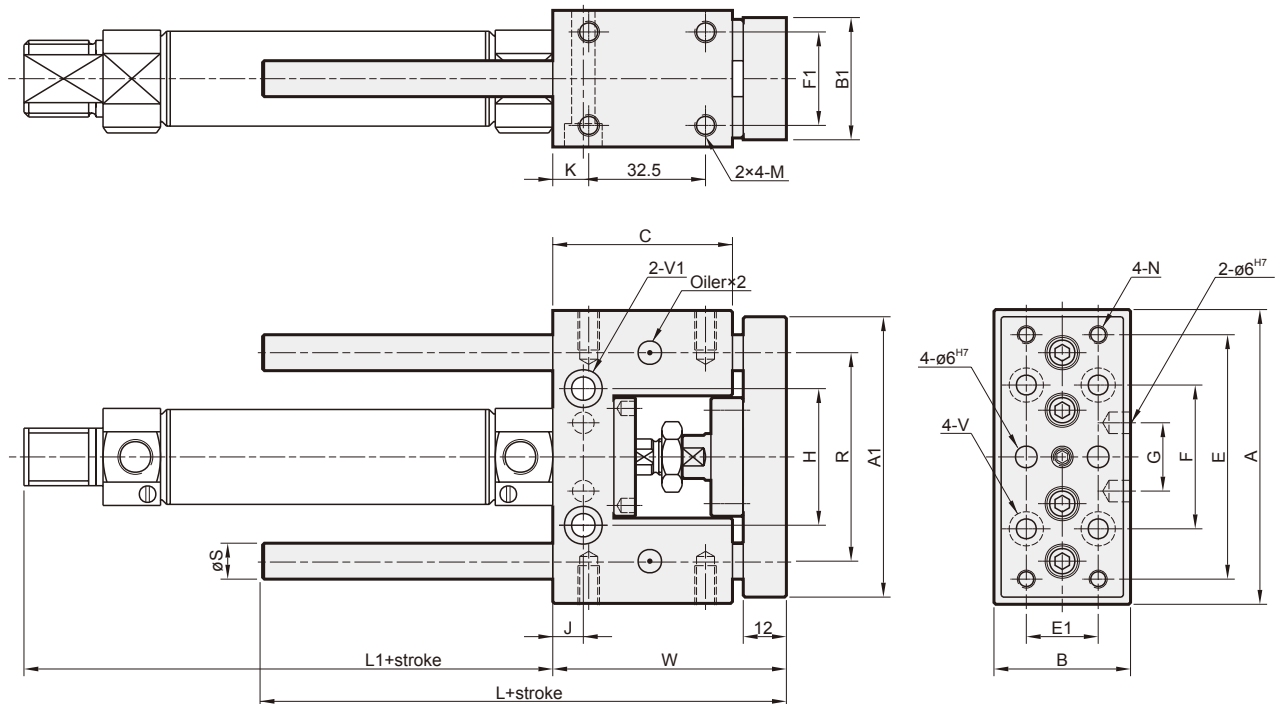


Material

No.	Part name	Material	Note
1	Cylinder	—	ø20, ø25: MCMI series
			ø32~ø63: MCQI series
2	Guide holder	Aluminum alloy	
3	Plate	Aluminum alloy	
4	Guide rod	Medium carbon steel	for MGTB, MGTK, MGTX series
		Bearing steel	for MGTU series
5	Piston rod holder	Carbon steel	
6	Floating connector	Carbon steel	
7	Bolt	SCM	
8	Bolt	SCM	
9	Bolt	SCM	
10	Oiler	Copper	
11	Rod bush	Copper	for MGTB, MGTK, MGTX series
	Linear bearing	—	for MGTU series
12	Snap ring	Spring steel	
13	Wiper seal	NBR	
14	Bolt	SCM	

MGTK (Oilless bush guide)

$\varnothing 20$, $\varnothing 25$

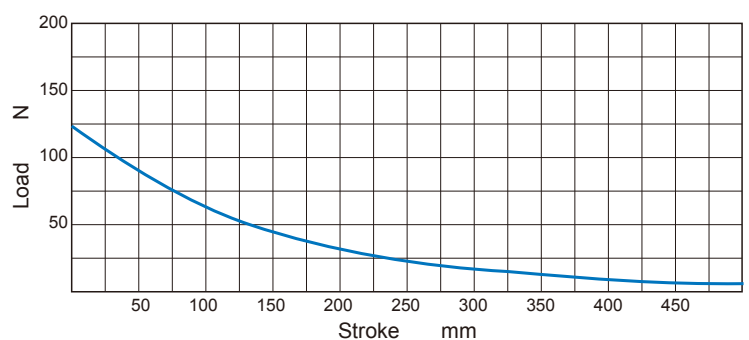
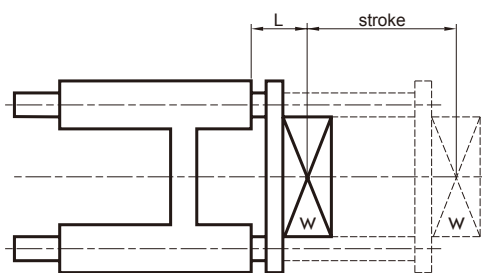


Code Tube I.D.	A	A1	B	B1	C	E	E1	F	F1	G	H	J	K	L	L1	M	N	R	S	V	V1	W
20	82	78	38	34	50	68	20	40	26	19	38	8.5	5	85	88	M6,(D)11	M5	58	10	$\varnothing 5.5, \varnothing 9.5(D)5.4$	$\varnothing 6.5, \varnothing 10.5(D)6.5$	65
25	82	78	38	34	50	68	20	40	26	19	38	8.5	5	85	89	M6,(D)11	M5	58	10	$\varnothing 5.5, \varnothing 9.5(D)5.4$	$\varnothing 6.5, \varnothing 10.5(D)6.5$	65

Maximum allowable torque moment

Max. allowable load

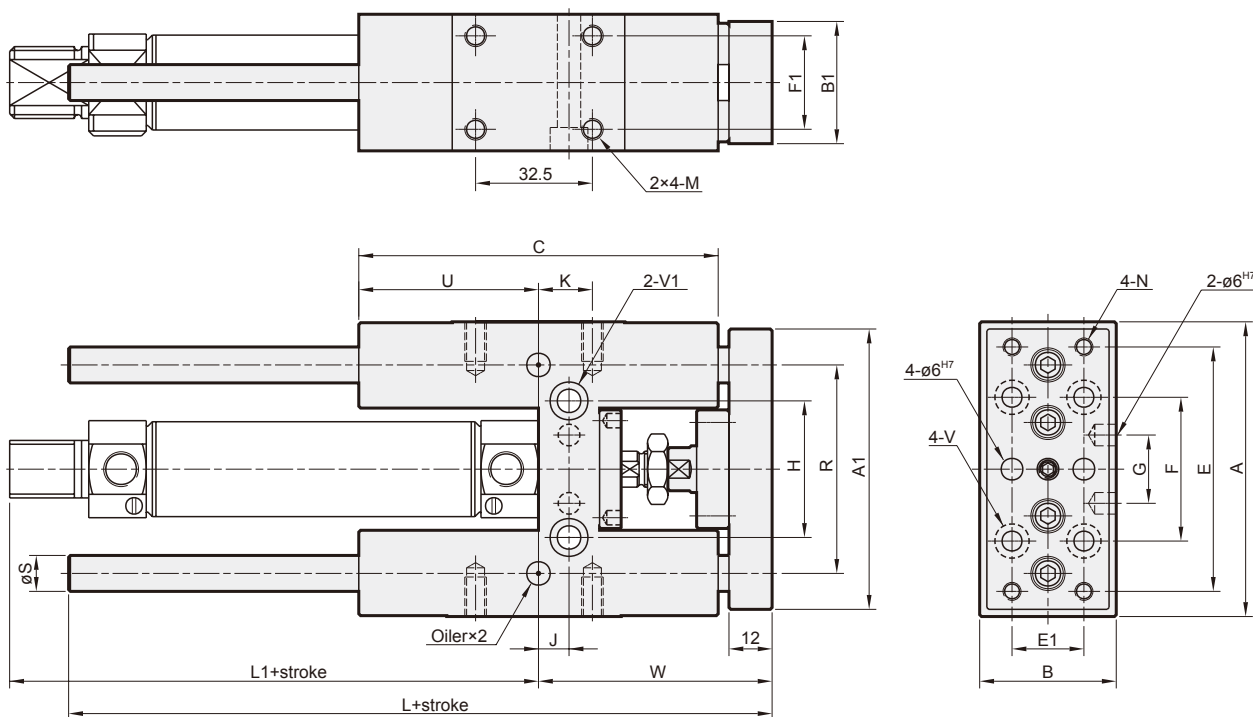
MGTK $\varnothing 20$, $\varnothing 25$



MGTB (Brass bush guide)

MGTU (Linear bearing guide)

$\varnothing 20$, $\varnothing 25$

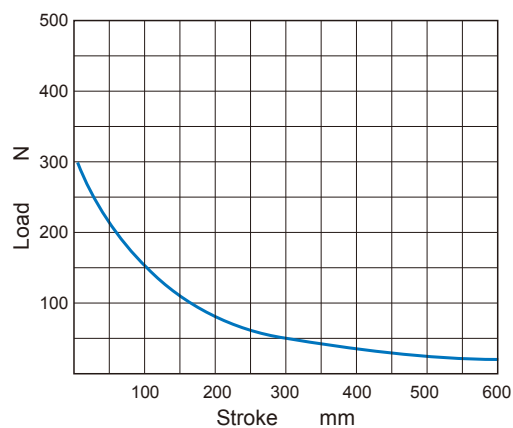
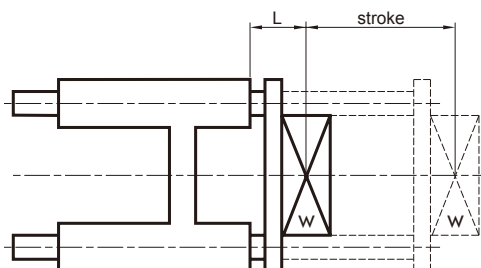


Code Tube I.D.	A	A1	B	B1	C	E	E1	F	F1	G	H	J	K	L	L1	M	N	R	S	U	V	V1	W
20	82	78	38	34	100	68	20	40	26	19	38	8.5	15	135	88	M6,(D)11	M5	58	10	50	$\varnothing 5.5, \varnothing 9.5(D)5.4$	$\varnothing 6.5, \varnothing 10.5(D)6.5$	65
25	82	78	38	34	100	68	20	40	26	19	38	8.5	15	135	89	M6,(D)11	M5	58	10	50	$\varnothing 5.5, \varnothing 9.5(D)5.4$	$\varnothing 6.5, \varnothing 10.5(D)6.5$	65

Maximum allowable torque moment

Max. allowable load

MGTB.MGTU $\varnothing 20$, $\varnothing 25$



Installation of sensor switch $\varnothing 20, \varnothing 25$

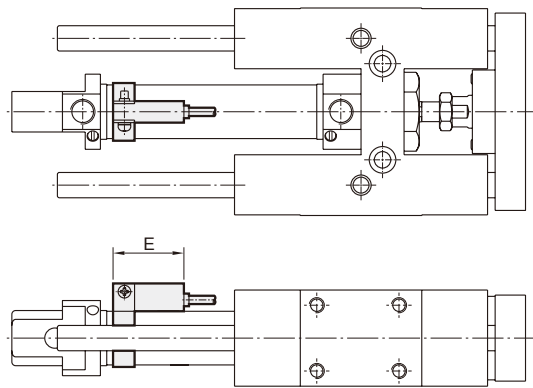
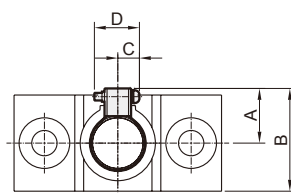
Sensor switch: RCM

Sensor switch band: BM**

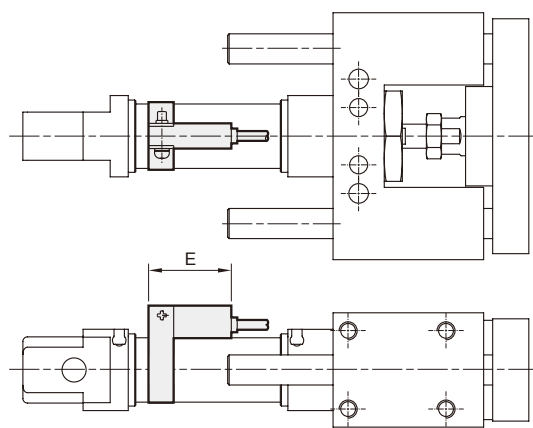
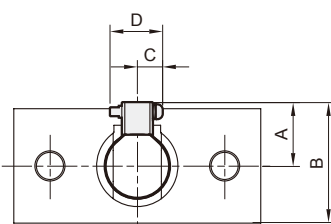
Code Tube I.D.	A	B	C	D	E
20	22	41	10	16	28
25	25	44	10	16	28

MGTB

MGTU



MGTK



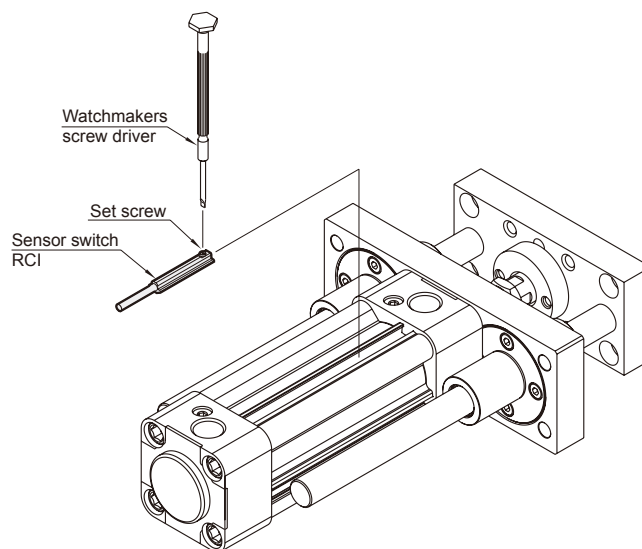
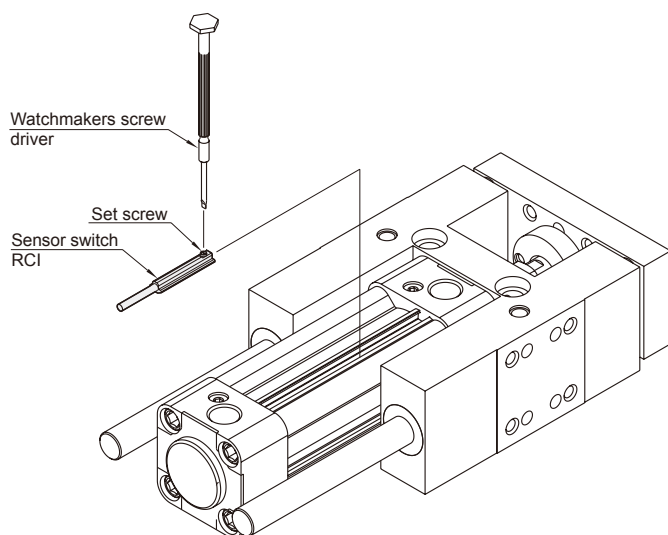
Installation of sensor switch $\varnothing 32 \sim \varnothing 63$

Sensor switch: RCI

MGTB

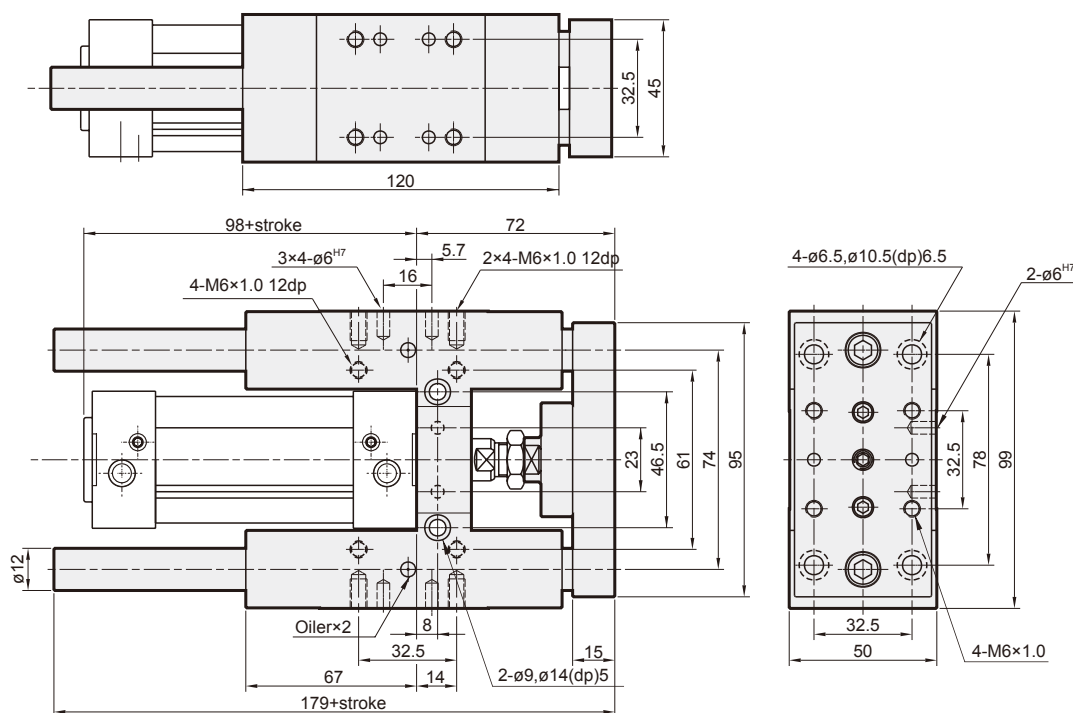
MGTU

MGTX



MGTB (Brass bush guide)
ø32

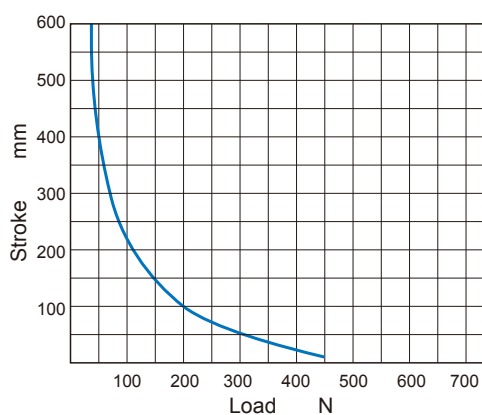
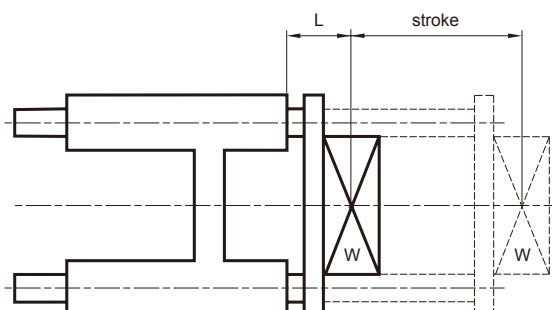
MGTU (Linear bearing guide)
ø32



Maximum allowable torque moment

Max. allowable load

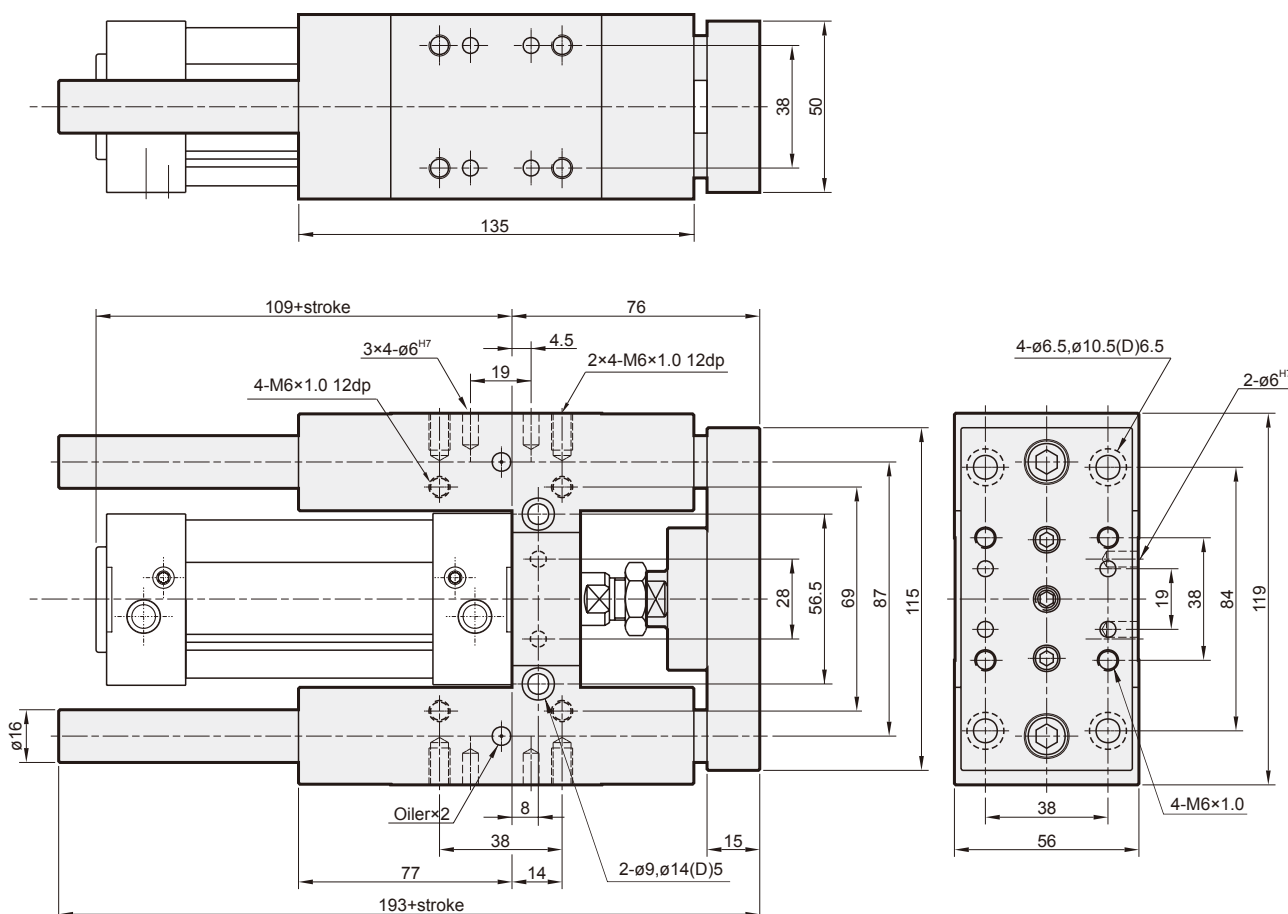
MGTB.MGTU ø32



MGTB (Brass bush guide)

MGTU (Linear bearing guide)

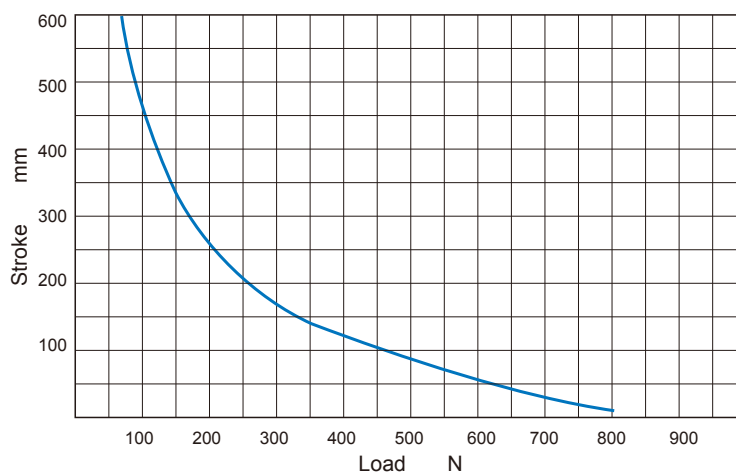
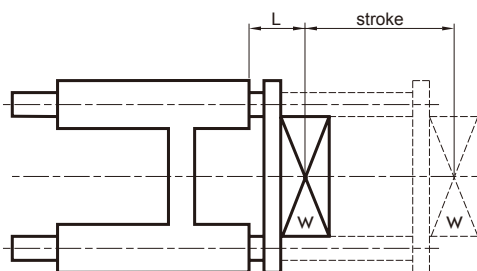
Ø40



Maximum allowable torque moment

Max. allowable load

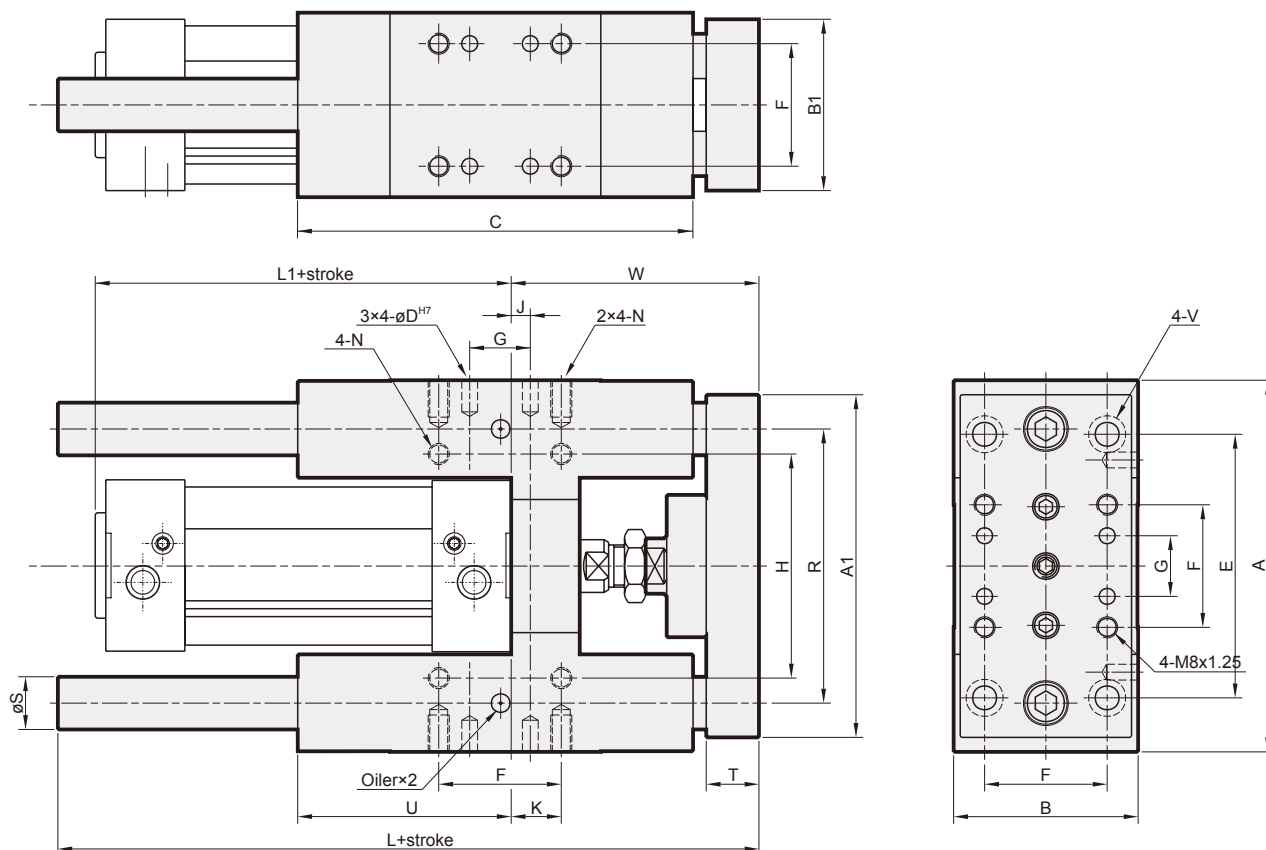
MGTB. MGTU ø40



MGTB (Brass bush guide)

MGTU (Linear bearing guide)

$\varnothing 50$, $\varnothing 63$

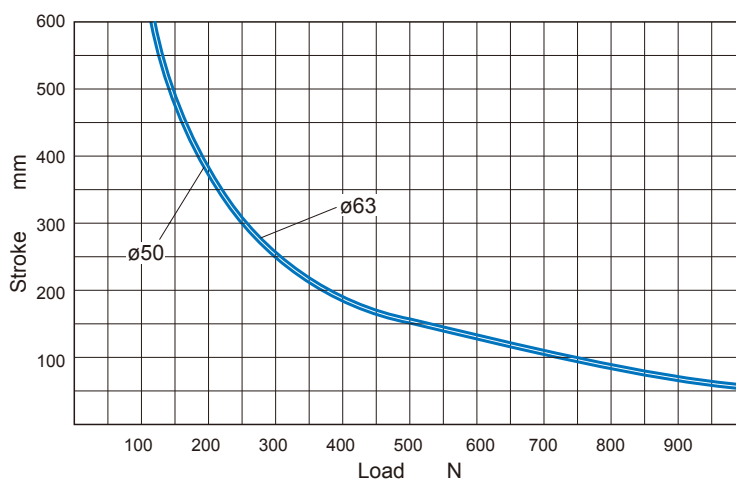
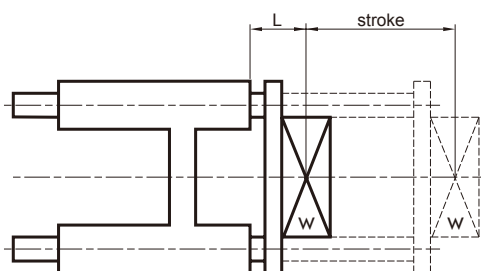


Code Tube I.D.	A	A1	B	B1	C	D	E	F	G	H	J	K	L	L1	N	R	S	T	U	V	W
50	141	135	70	65	150	6	100	46.5	23	85	7.5	19	216	110	M8x1.25,(D)14	104	20	20	81	$\varnothing 9$, $\varnothing 14$ (D)8.5	94
63	156	150	80	75	150	6	105	56.5	28	100	5	19	230	125	M8x1.25,(D)14	119	20	20	96	$\varnothing 9$, $\varnothing 14$ (D)8.5	94

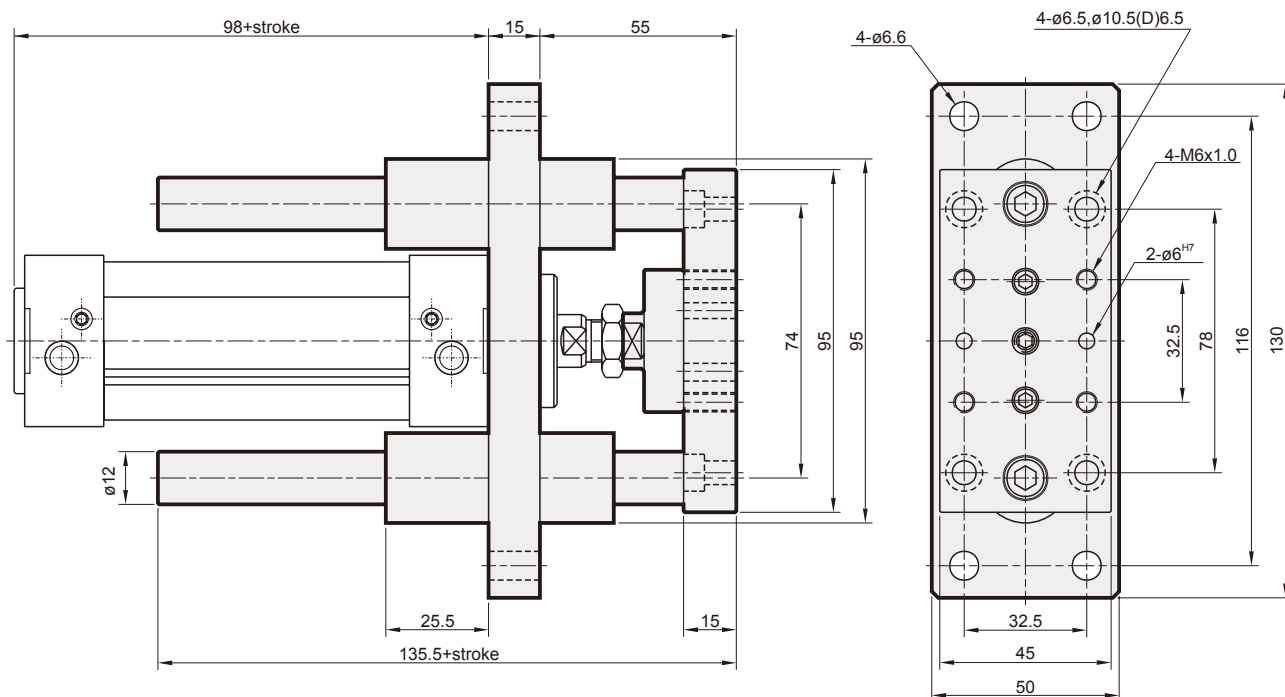
Maximum allowable torque moment

Max. allowable load

MGTB, MGTU $\varnothing 50$, $\varnothing 63$



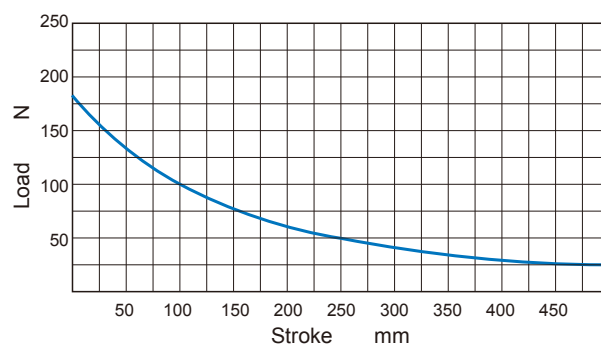
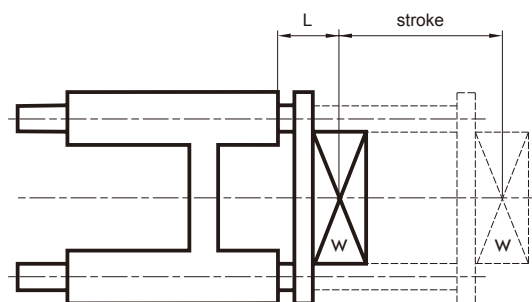
MGTX (Flange type) $\phi 32$



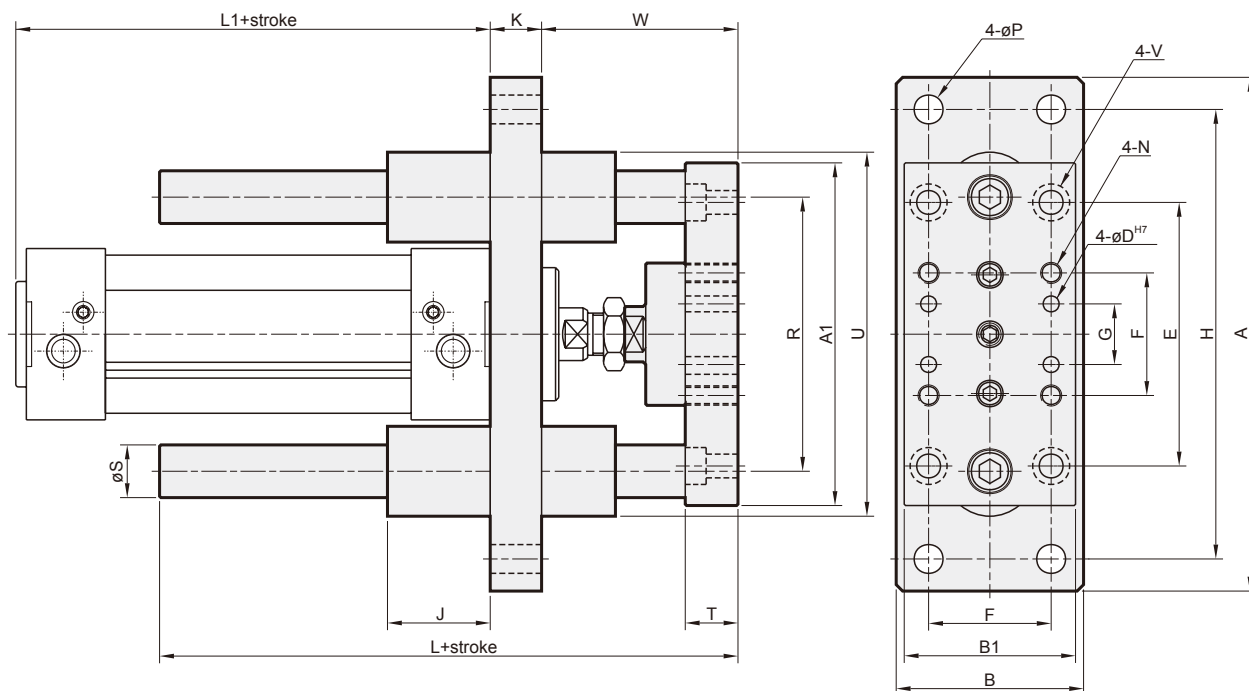
Maximum allowable torque moment

Max. allowable load

MGTX $\phi 32$



MGTX (Flange type) $\phi 40 \sim \phi 63$

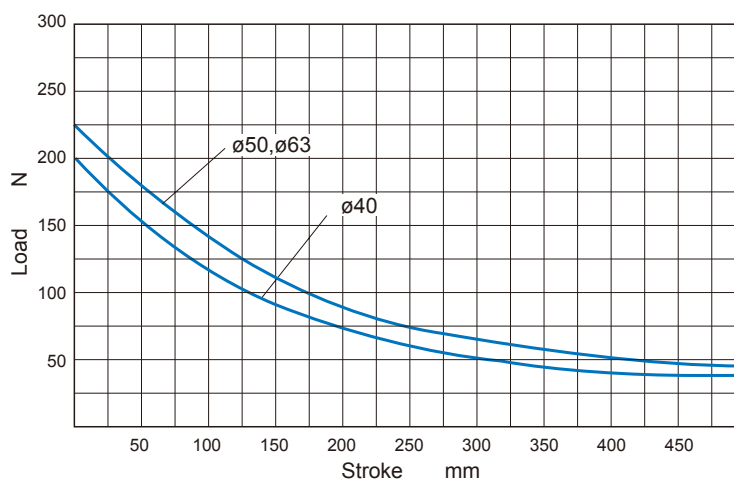
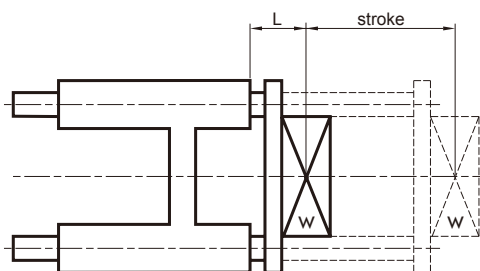


Code Tube I.D.	A	A1	B	B1	D	E	F	G	H	J	K	L	L1	N	P	R	S	T	U	V	W
40	160	115	55	54	6	84	38	19	140	32	15	148	109	M8x1.25	$\phi 9$	87	16	15	115	$\phi 6.5, \phi 10.5(D)6.5$	61
50	180	135	70	65	6	100	46.5	23	160	36	20	170	110	M8x1.25	$\phi 9$	104	20	20	136	$\phi 9, \phi 14(D)8.5$	74
63	195	150	80	75	6	105	56.5	28	175	36	20	170	125	M8x1.25	$\phi 9$	119	20	20	151	$\phi 9, \phi 14(D)8.5$	74

Maximum allowable torque moment

Max. allowable load

MGTX $\phi 40 \sim \phi 63$



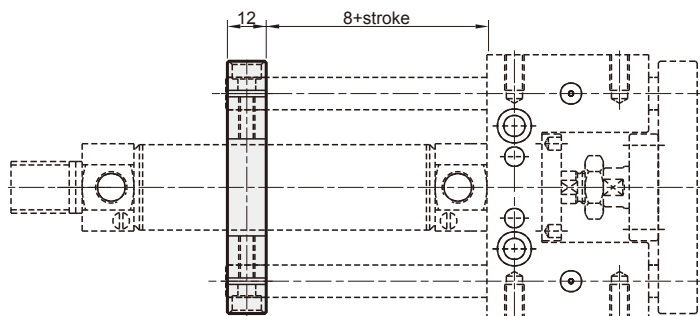
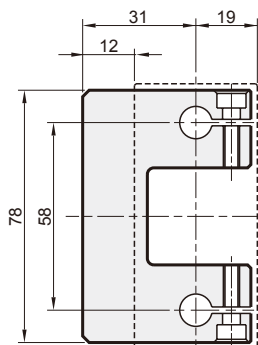
MGT* Rear flange coupling ø20, ø25

TWIN-GUIDE CYLINDER



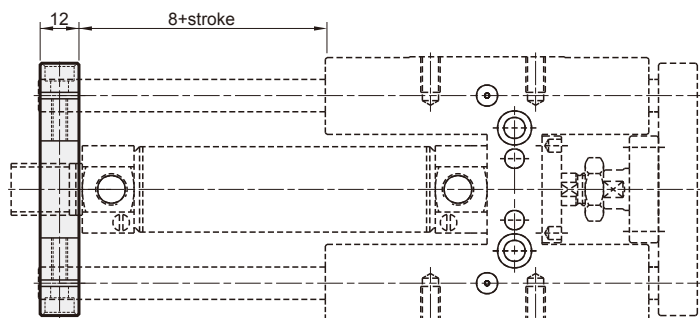
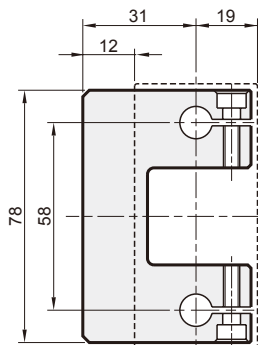
MGTK

ø20, ø25



MGTB

ø20, ø25



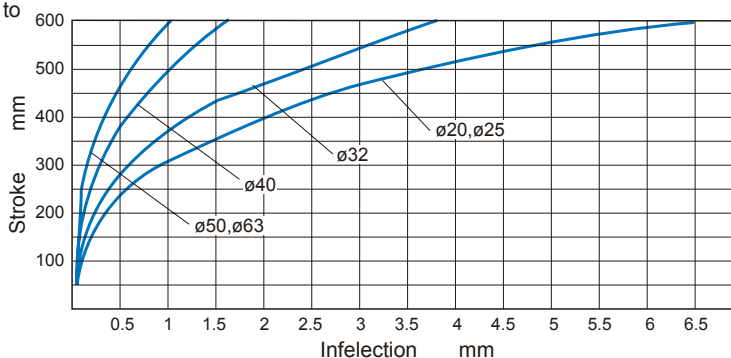
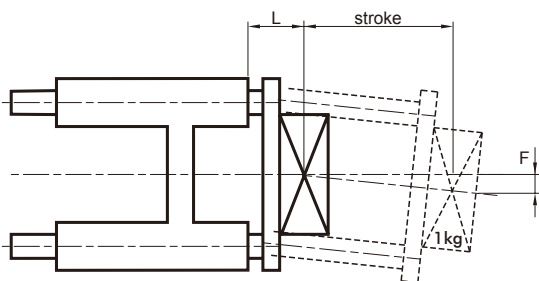
Building material: aluminum alloy
2 Clamps screws are included in the supply

Maximum allowable torque moment

Max. allowable load

MGTB. MGTU

Inflection of guide stems is due to their weight summed to the load of 1Kg.related to the stroke.



Weight

Unit: kg

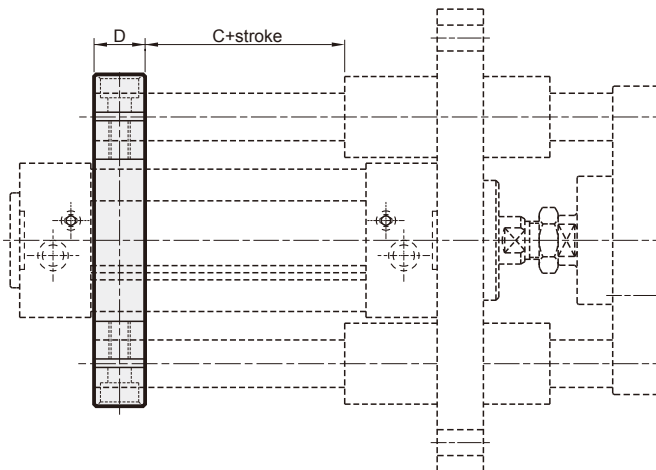
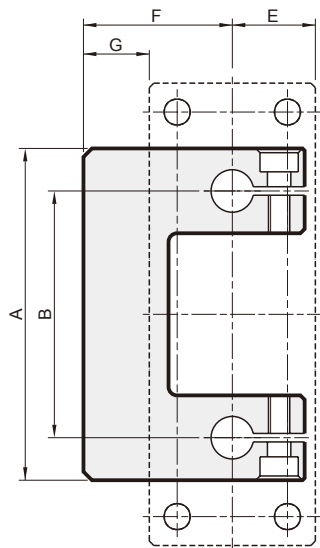
Tube I.D.	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm
	MGTK (Oilless bush guide)		MGTB (Brass bush guide)		MGTU (Linear bushing guide)	
20	0.690	0.050	1.090	0.050	0.967	0.050
25	0.716	0.058	1.137	0.058	1.015	0.058

MGT* Rear flange coupling ø32~ø63

TWIN-GUIDE CYLINDER



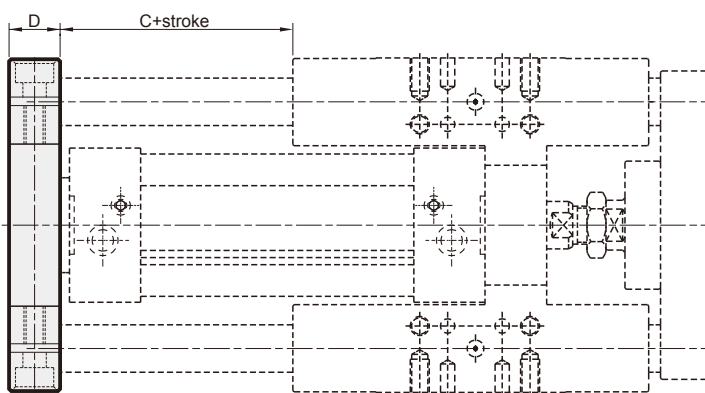
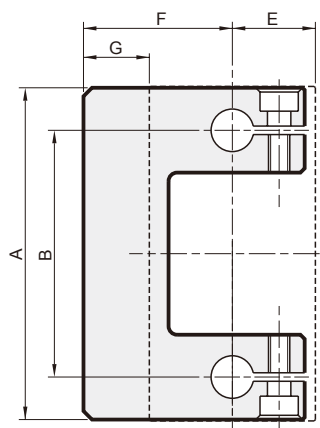
MGTX ø32~ø63



MGTB

MGTU

ø32~ø63



Building material: aluminum alloy
2 Clamps screws are included in the supply

Code Tube I.D.	A	B	C	D	E	F	G
32	95	74	25	15	25	47	22
40	115	87	20	20	28	52.5	24.5
50	135	104	20	20	35	67.5	32.5
63	150	119	20	20	40	78	38

Weight

Unit: kg

Tube I.D.	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm
	MGTB (Brass bush guide)		MGTU (Linear bushing guide)		MGTX (Brass bush guide)	
32	2.060	0.100	1.918	0.100	1.274	0.100
40	3.423	0.159	3.113	0.159	2.082	0.159
50	5.584	0.240	5.162	0.240	3.440	0.240
63	6.816	0.250	6.390	0.250	4.221	0.250