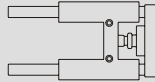


**MGTK** Light duty type

**MGTX** Light duty flange type

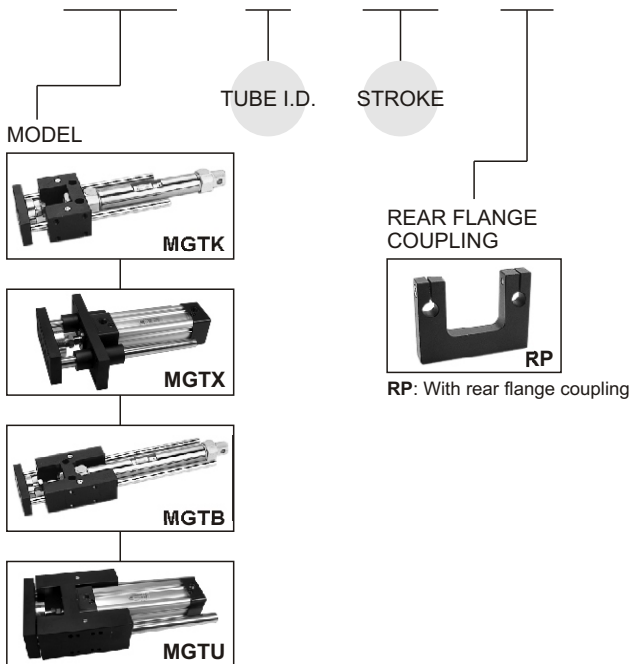
**MGTB** Heavy duty (bush) type

**MGTU** Heavy duty (linear bearing) type



### Order example:

**MGTB - 40 - 100 - RP**



### Features:

- MGTK(X): Light duty type, MGTB(U): Heavy duty type
- The guiding units can be assembled to cylinders in conformity ISO 6431/6432 standard
- Antirotation is guaranteed by two steel guide stems, which moment is support by four oilless bush in MGTK(X) series by four linear bearing in MGTU series and four brass bush in MGTB series.
- Easy to install, also reducing machine design work and cost.
- $\phi 32 \sim \phi 63$  with four grooves on the tube for sensor switch to be inserted into, position can be adjusted as needed.

### Specification

Model	MGTB, MGTU					
	MGTK		MGTX			
Tube I.D. (mm)	20	25	32	40	50	63
Port size Rc(PT)	PF 1/8		G 1/8	G 1/4	G 3/8	
The range of stroke (mm)	Stroke by request					
Medium	Air					
Operating pressure range	2~7 kgf/cm <sup>2</sup>					
Ambient temperature	-5~+60°C (No freezing)					
Lubrication	Not required					
Sensor switch	RCA		RCI			
Sensor switch holder	BA20	BA25	—			
	BGS20	BGS25	—			

### RCA sensor switch specification:

Model	RCA	RNA
Switch type	Reed switch	NPN current sinking
Voltage range	5~220V DC/AC	5 ~ 30V DC
Current range	100mA max.	200mA max.
Shock resistance	30G	50G

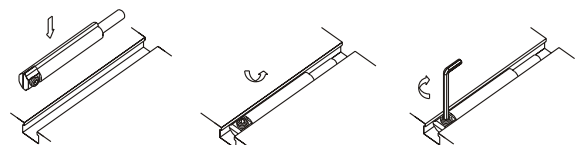
- Detail specification please refer to sensor switch RCA series.

### RCI sensor switch specification:

Model	RCI	RNI	RPI
Switch type	Reed switch	NPN current sinking	PNP current sourcing
Voltage range	5~220V DC/AC	10 ~ 30V DC	
Current range	100mA max.		
Shock resistance	30G	50G	
Voltage drop	3.0 V max.	2.0 V max.	

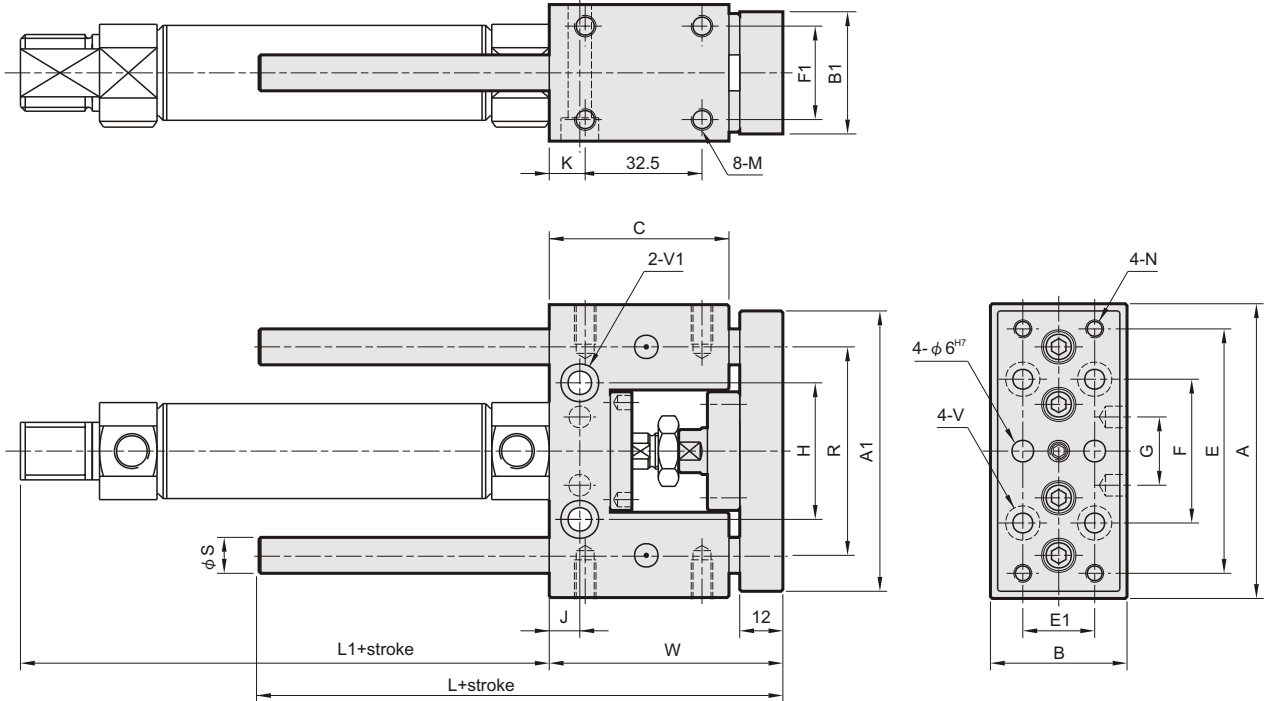
- Detail specification please refer to sensor switch RCI series.

### Mounting :



### MGTK (Oilless bush guide)

Bore  $\phi 20, \phi 25$



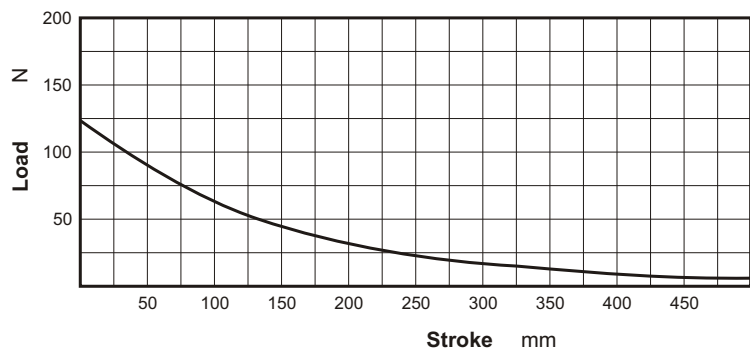
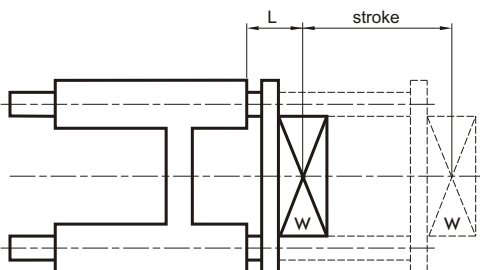
### Dimensional table

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	$\phi 5.5, \phi 9.5(D)5.4$	$\phi 6.5, \phi 10.5(D)6.5$	65
25	82	78	38	34	50	68	20	40	26	19	38	8.5	5	85	89	M6,(D)11	M5	58	10	$\phi 5.5, \phi 9.5(D)5.4$	$\phi 6.5, \phi 10.5(D)6.5$	65

### Maximum allowable torque moment

Max. allowable load

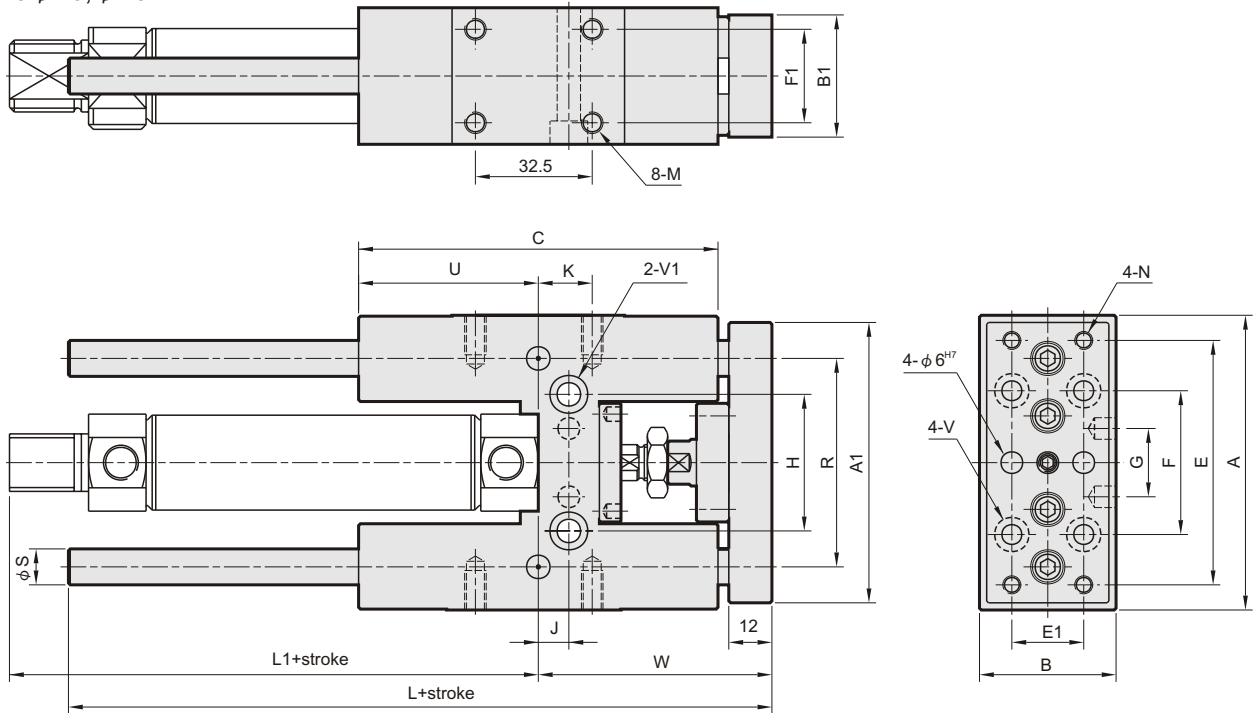
MGTK Bore  $\phi 20, \phi 25$



**MGTB** (Brass bush guide)

**MGTU** (Linear bearing guide)

Bore  $\phi 20, \phi 25$



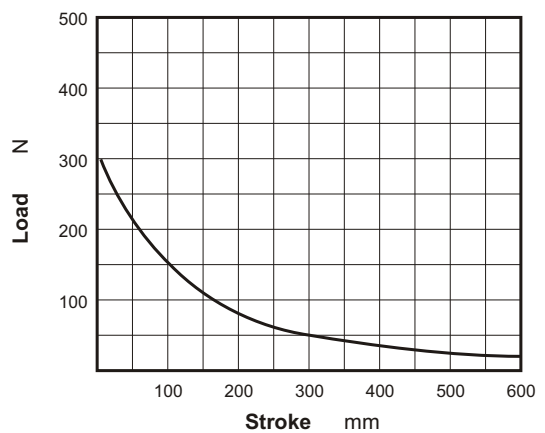
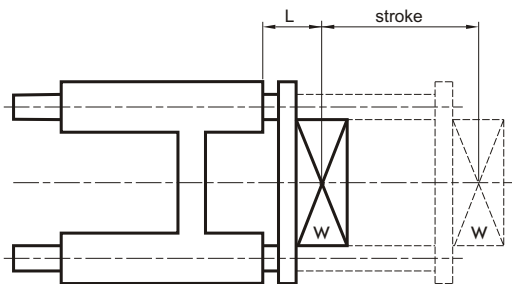
**Dimensional table**

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	$\phi 5.5, \phi 9.5(D)5.4$	$\phi 6.5, \phi 10.5(D)6.5$	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	$\phi 5.5, \phi 9.5(D)5.4$	$\phi 6.5, \phi 10.5(D)6.5$	65

**Maximum allowable torque moment**

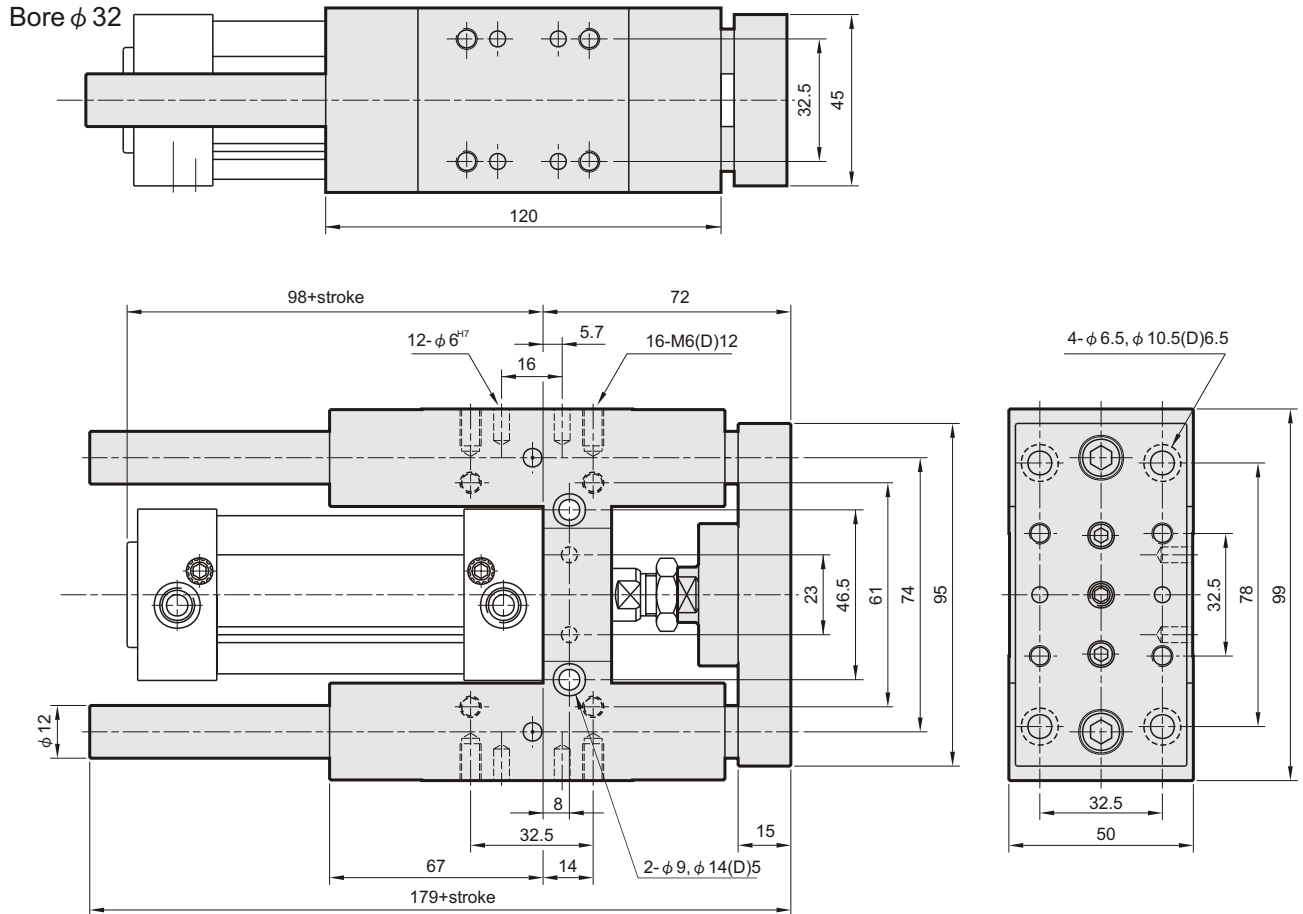
Max. allowable load

**MGTB.MGTU** Bore  $\phi 20, \phi 25$



**MGTB** (Brass bush guide)

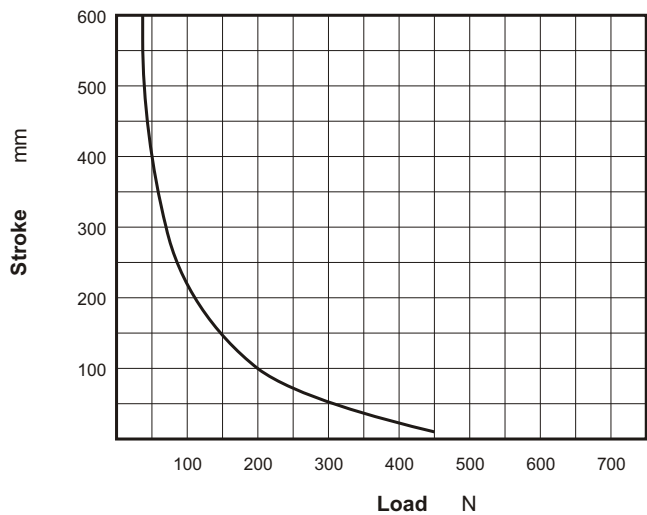
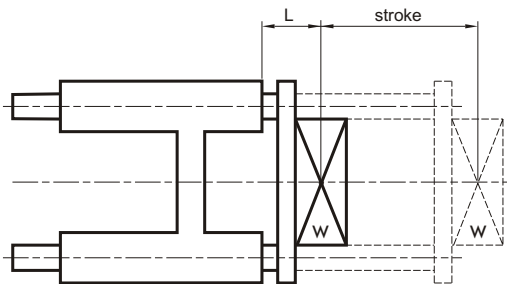
**MGTU** (Linear bearing guide)



**Maximum allowable torque moment**

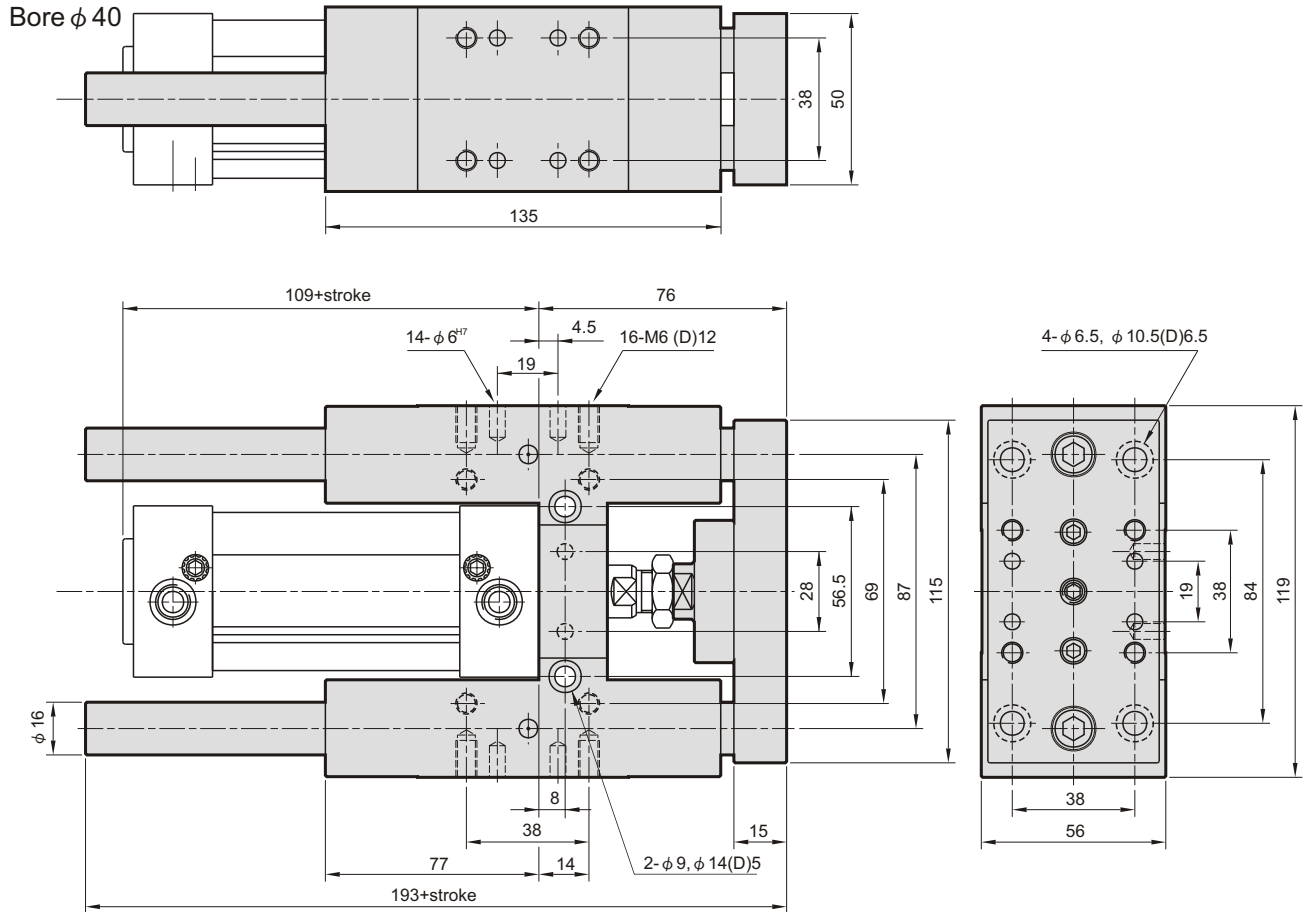
Max. allowable load

**MGTB.MGTU** Bore  $\phi 32$



**MGTB** (Brass bush guide)

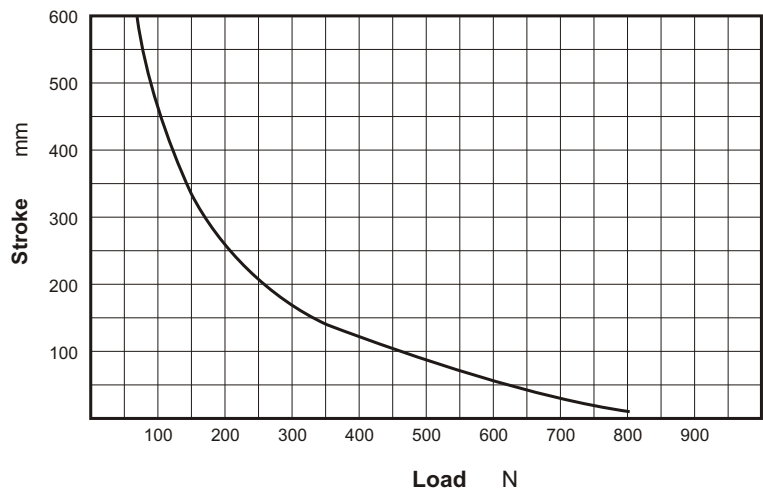
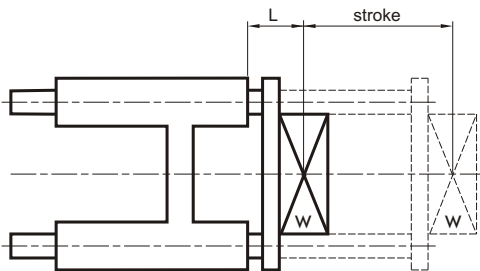
**MGTU** (Linear bearing guide)



### Maximum allowable torque moment

Max. allowable load

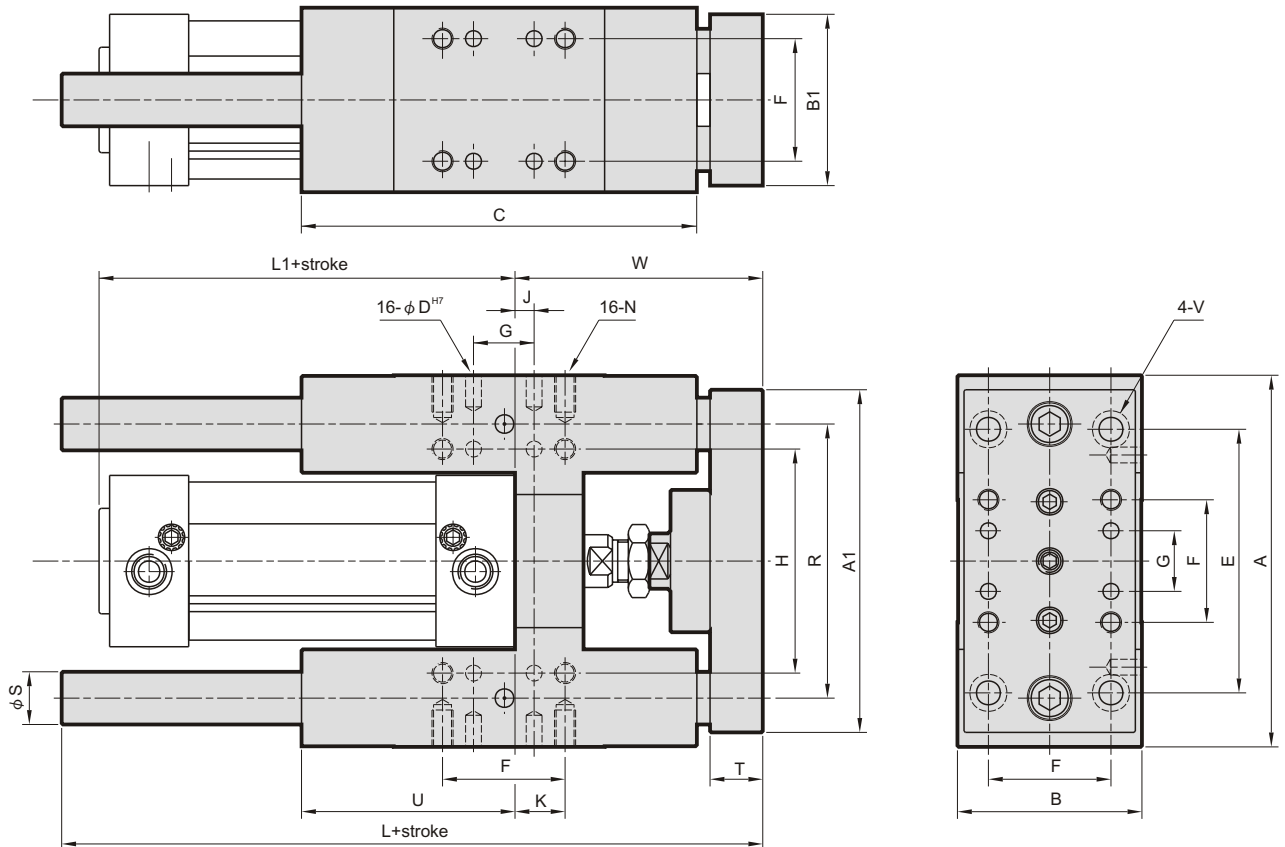
**MGTB.MGTU** Bore  $\phi 40$



**MGTB** (Brass bush guide)

**MGTU** (Linear bearing guide)

Bore  $\phi 50, \phi 63$



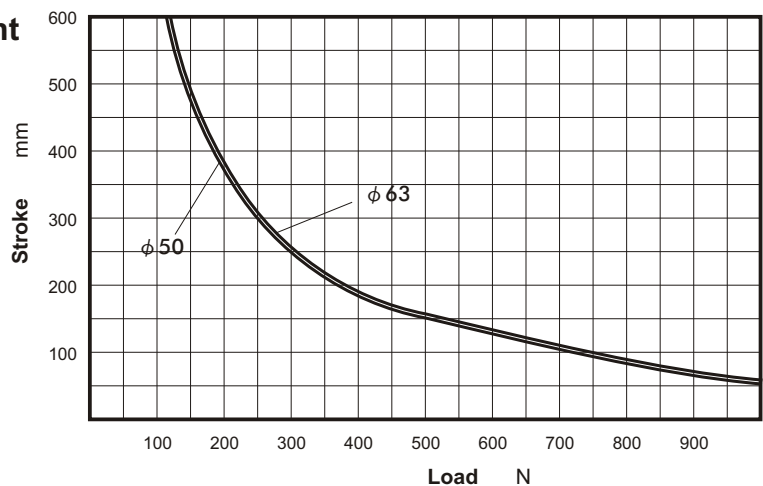
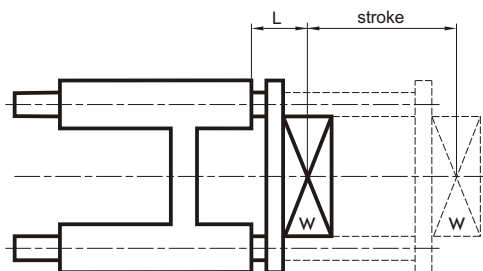
Dimensional table

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	215	110	M8,(D)14	104	20	20	81	$\phi 9, \phi 14(D)8.5$	94
63	156	150	80	75	150	6	105	56.5	28	100	5	19	230	125	M8,(D)14	119	20	20	96	$\phi 9, \phi 14(D)8.5$	94

Maximum allowable torque moment

Max. allowable load

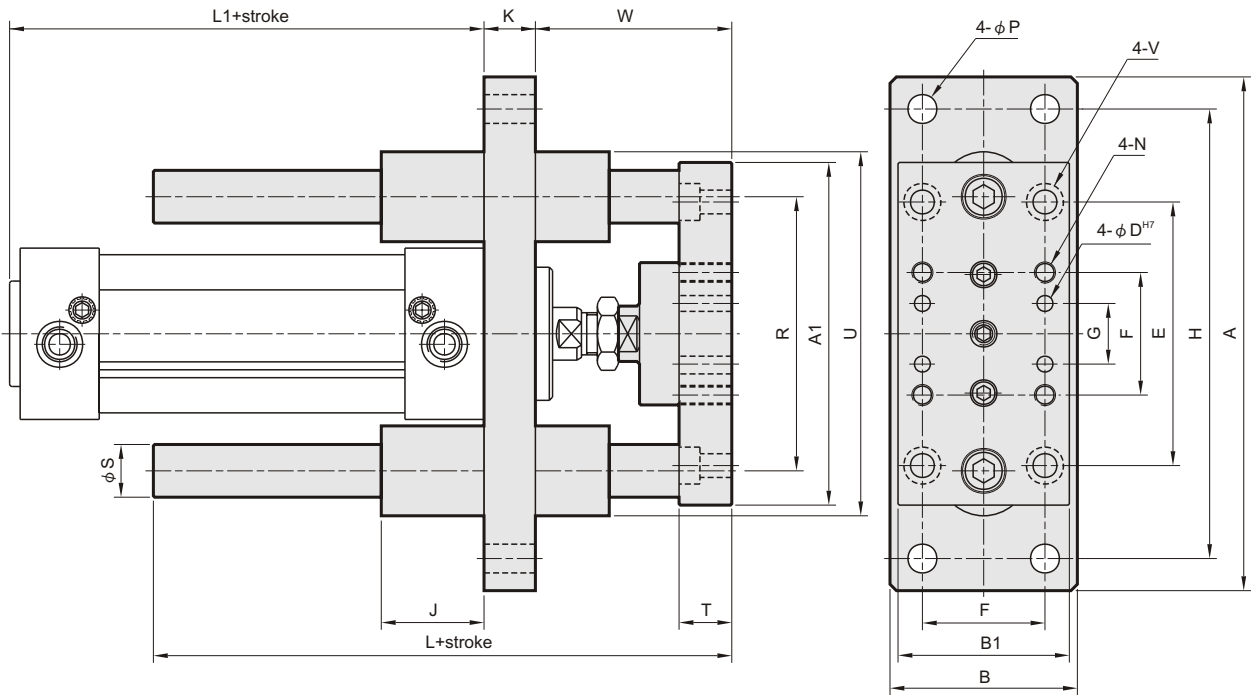
**MGTB.MGTU** Bore  $\phi 50, \phi 63$





### MGTX (Flange type)

Bore  $\phi 40, \phi 50, \phi 63$



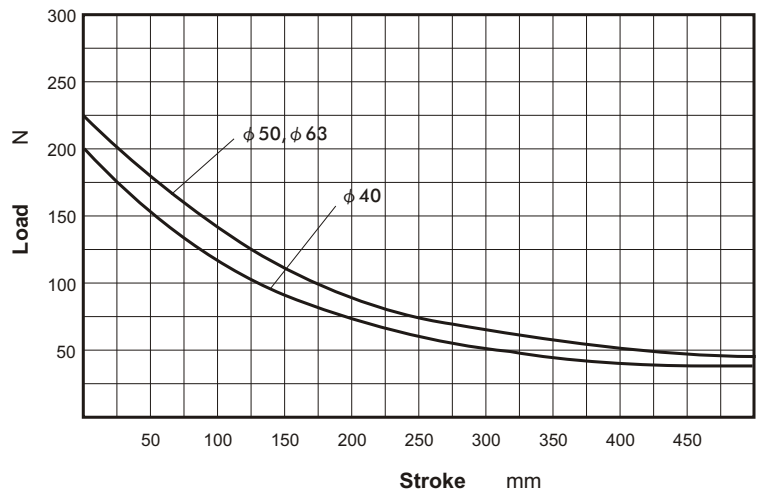
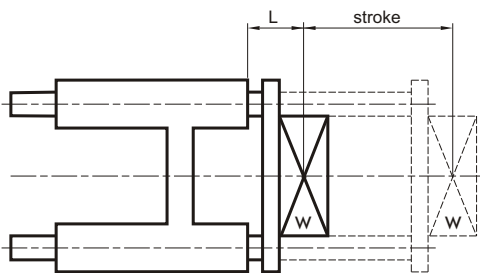
### Dimensional table

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	M6,(D)12	$\phi 9$	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	M8,(D)14	$\phi 9$	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	M8,(D)16	$\phi 9$	119	20	20	151	$\phi 9, \phi 14(D)8.5$	74

### Maximum allowable torque moment

Max. allowable load

MGTX Bore  $\phi 40 \sim \phi 63$





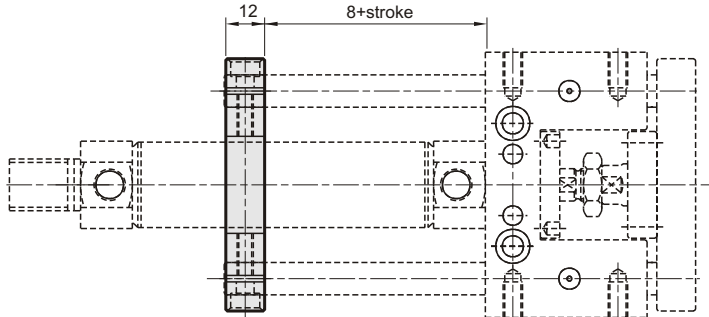
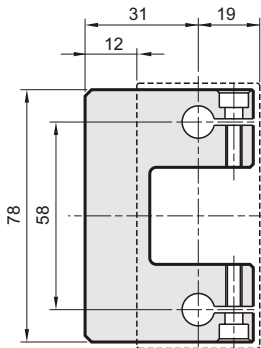
# MGT\* $\phi 20, \phi 25$ Rear flange coupling

## TWIN-GUIDE CYLINDERS



### MGTK

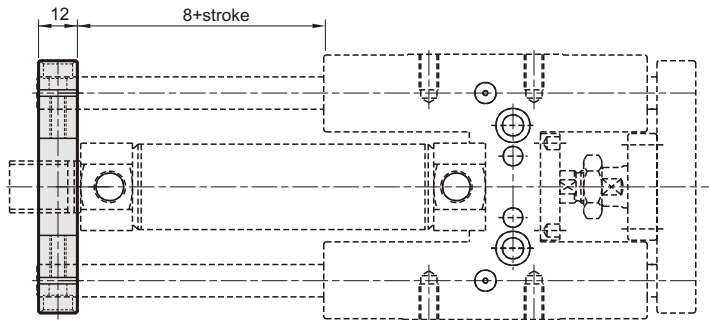
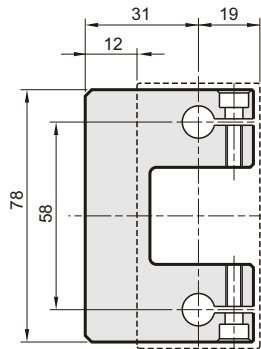
Bore  $\phi 20, \phi 25$



### MGTB

### MGTU

Bore  $\phi 20, \phi 25$



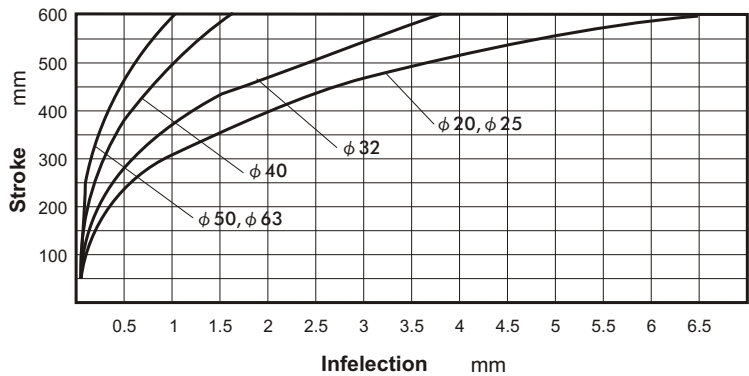
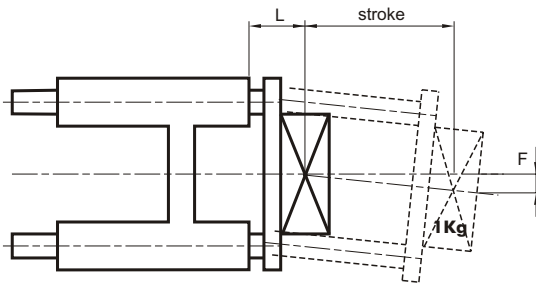
Building material: aluminium alloy  
2 Clamps screws are included in the supply

### 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 of the guide cylinder

unit: kg

Bore	Basic weight		Stroke 25 mm		Basic weight		Stroke 25 mm	
	GTK (Oilless bush guide)	GTB (Brass bush guide)	GTK (Oilless bush guide)	GTB (Brass bush guide)	GTU (Linear bushing guide)	GTB (Brass bush guide)	GTU (Linear bushing guide)	GTB (Brass bush guide)
20	0.690	1.090	0.050	0.050	0.967	1.090	0.050	0.050
25	0.716	1.137	0.058	0.058	1.015	1.137	0.058	0.058

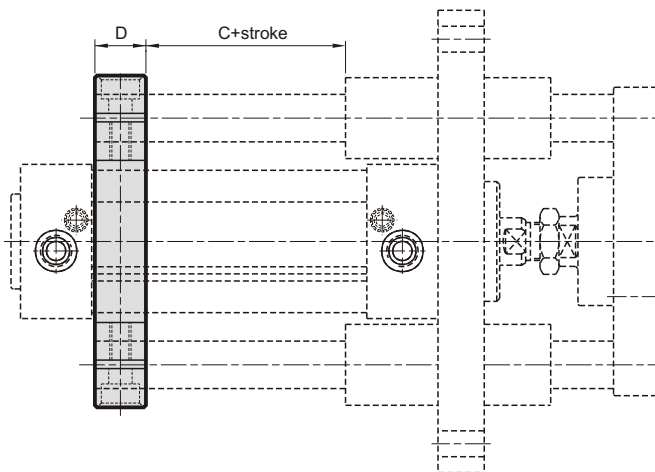
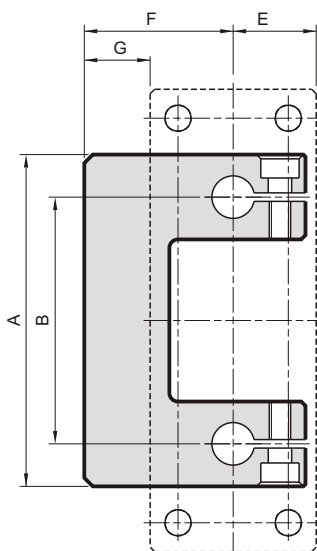
# MGT\* $\phi 32, \phi 40, \phi 50, \phi 63$ Rear flange coupling

## TWIN-GUIDE CYLINDERS



### MGTX

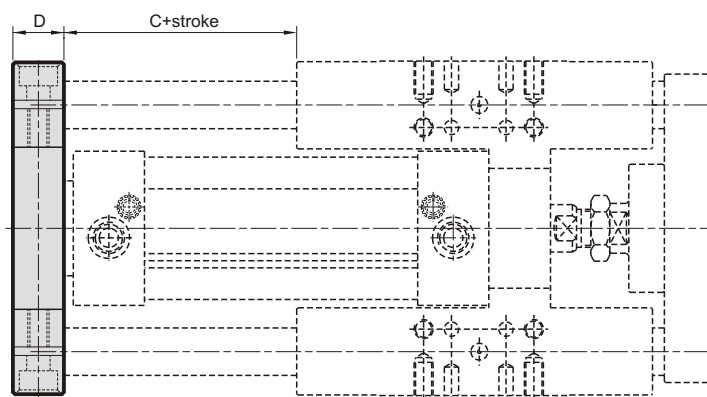
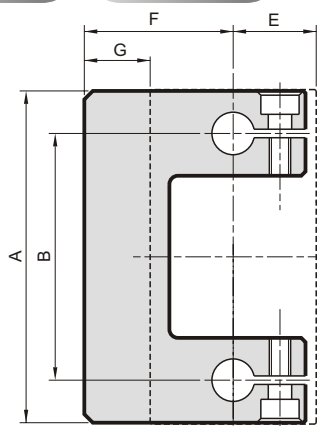
Bor  $\phi 32, \phi 40, \phi 50, \phi 63$



### MGTB

### MGTU

Bor  $\phi 32, \phi 40, \phi 50, \phi 63$



### Dimensional table

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

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

### Weight of the guide cylinder

unit: kg

Bore	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm	Basic weight	Stroke 25 mm
	GTB (Brass bush guide)		GTU (Linear bushing guide)		GTX (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