

Features

1. Hard anodized aluminum body provides corrosion and wear resistance.
2. Simplified design.
3. Compact size and space saving.
4. Non-rotated.
5. Low deviation.
6. Built-in magnet.



How to order

<b>TRC</b>	<b>M</b>	<b>12</b>	<b>B50</b>	<b>SR</b>	<b>D</b>	<b>1</b>
Type	Guide rod	Bore size	Stroke	Sensor	Type	Number of sensor
Three rod cylinder	M: Bush bearing L: Linear bearing	12: Ø12 16: Ø16 20: Ø20 25: Ø25 32: Ø32 40: Ø40 50: Ø50 63: Ø63		Black: W/O sensor SR: Round type	Blank: Reed switch D: NPN E: PNP	1 pc 2 pcs



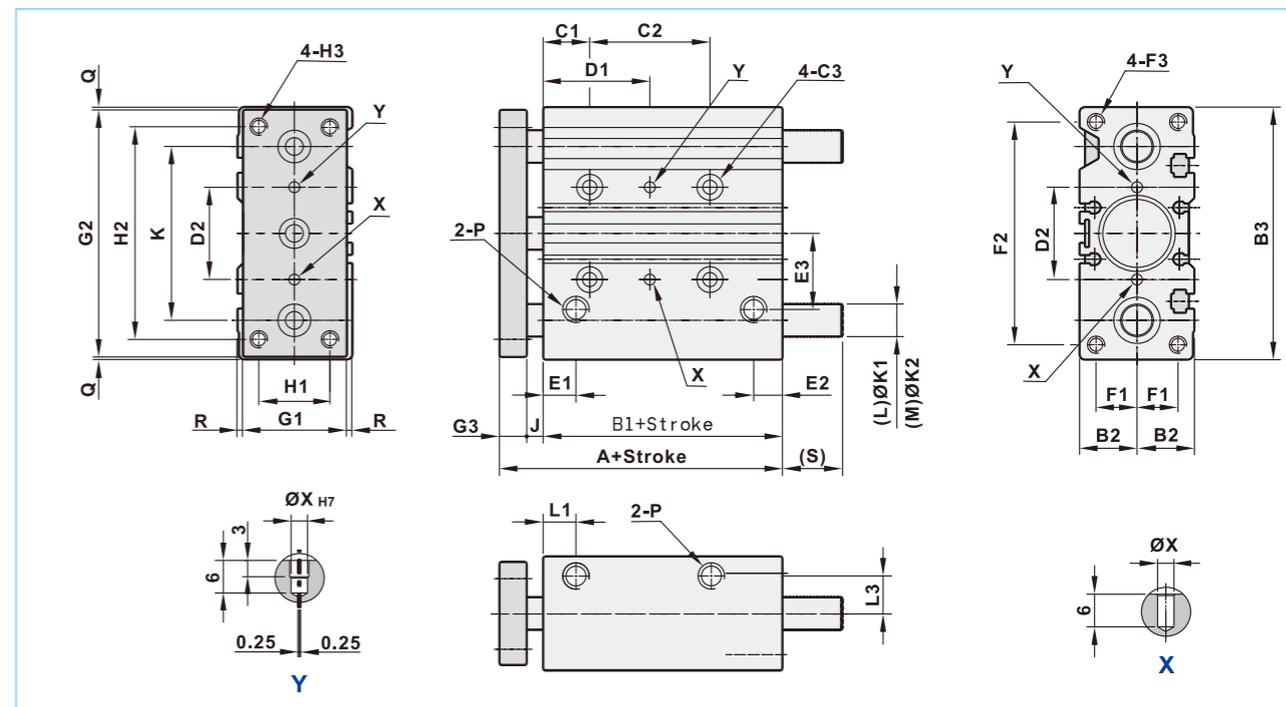
\*Rod: M-Carbon steel(Bush bearing)  
L-Bearing steel(Linear bearing)

\*Sensor please refer to P3-191

Specifications

Bore size	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63
Port size	M5xP0.8		1/8"			1/4"		
Fluid	Compressed air							
Acting	Double acting							
Operating pressure range	1.5 ~ 9.5 kgf/cm <sup>2</sup>							
Max operating pressure	10 kgf/cm <sup>2</sup>							
Lubrication	Not required							
Barrel material	Aluminum alloy							
Magnet	Built-in							
Ambient temperature	0°C ~ 60°C							
Piston speed mm/Sec	100 ~ 500							

Dimensions



(Unit: mm)

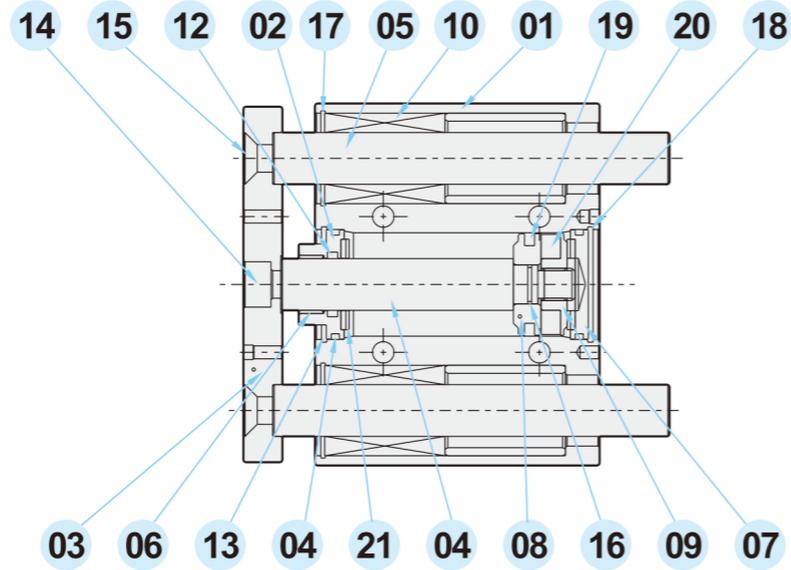
Bore size	A	B1	B2	B3	C1	C2		C3	D1	
						Over 30ST	Over 31ST		Over 30ST	Over 31ST
Ø12	42	29	13	58	5	20	40	M4 Countersink, Rear M5x0.8Px10dp	15	25
Ø16	46	33	15	64	5	24	44	M4 Countersink, Rear M5x0.8Px10dp	17	27
Ø20	53	37	18	83	17	24	44	M5 Countersink, Rear M6x1.0Px12dp	29	39
Ø25	53.5	37.5	21	93	17	24	44	M5 Countersink, Rear M6x1.0Px12dp	29	39
Ø32	59.5	37.5	24	112	21	24	48	M6 Countersink, Rear M8x1.25Px16dp	33	45
Ø40	66	44	27	120	22	24	48	M6 Countersink, Rear M8x1.25Px16dp	34	46
Ø50	72	44	32	148	24	24	48	M8 Countersink, Rear M10x1.5Px20dp	36	48
Ø63	77	49	39	162	24	28	52	M8 Countersink, Rear M10x1.5Px20dp	38	50

Bore size	D2	E1	E2	E3	F1	F2	F3	G1	G2	G3	H1	H2	H3
Ø12	23	10	8	18	9	50	M4x0.7Px10dp	22	56	7	14	48	M4x0.7P
Ø16	24	10.5	8.5	17	11	56	M5x0.8Px12dp	25	62	7	16	54	M5x0.8P
Ø20	28	11.5	9	25	12	72	M5x0.8Px13dp	30	81	8	18	70	M5x0.8P
Ø25	34	11.5	10	28	15	82	M6x1.0Px15dp	38	91	9	26	78	M6x1P
Ø32	42	12	11	32	17	98	M8x1.25Px20dp	44	110	10	30	96	M8x1.25P
Ø40	50	15	11	39.5	20	106	M8x1.25Px20dp	44	118	10	30	104	M8x1.25P
Ø50	66	15	12	47	23	130	M10x1.5Px22dp	60	146	12	40	130	M10x1.5P
Ø63	80	15.5	13.5	58	29	142	M10x1.5Px22dp	70	158	12	50	130	M10x1.5P

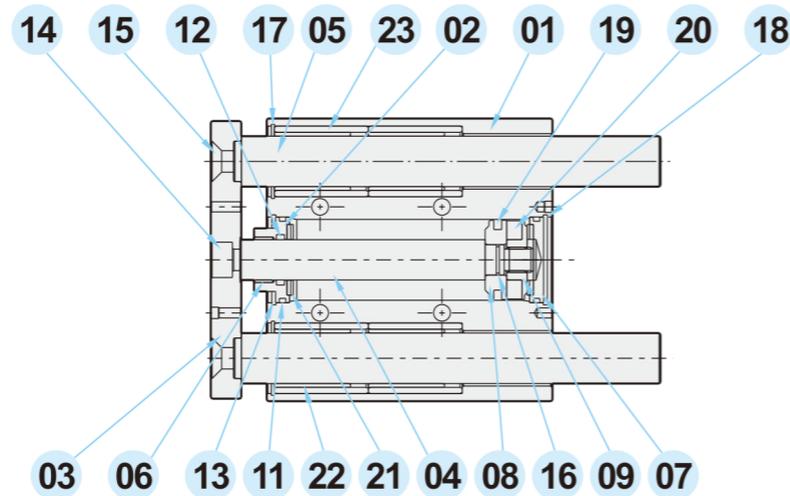
Bore size	J	K	K1	K2	L1	L3	P	Q	R	X	S(Bush bearing M)		S(Linear bearing L)	
											Over 30ST	Over 31ST	Over 30ST	Over 31ST
Ø12	6	41	6	8	10	8.5	M5	1	2	3	0	13	0	13
Ø16	6	46	8	10	10.5	10.5	M5	1	2.5	3	0	19	0	19
Ø20	8	54	10	12	11.5	11.5	G 1/8	1	3	3	0	27	0	27
Ø25	7	64	12	16	11.5	14	G 1/8	1	2	4	0	28.5	0	28.5
Ø32	12	78	16	20	12	16.5	G 1/8	1	2	4	18.5	42.5	5.5	42.5
Ø40	12	86	16	20	15	18	G 1/8	1	5	4	9	50	13.5	50
Ø50	16	110	20	25	15	21.5	G 1/4	1	2	5	16.5	55.5	19.5	55.5
Ø63	16	124	20	25	15.5	28	G 1/4	2	4	5	11.5	50.5	14.5	50.5

Material of parts

TRCL  
Linear bearing type



TRCM  
Bush bearing type

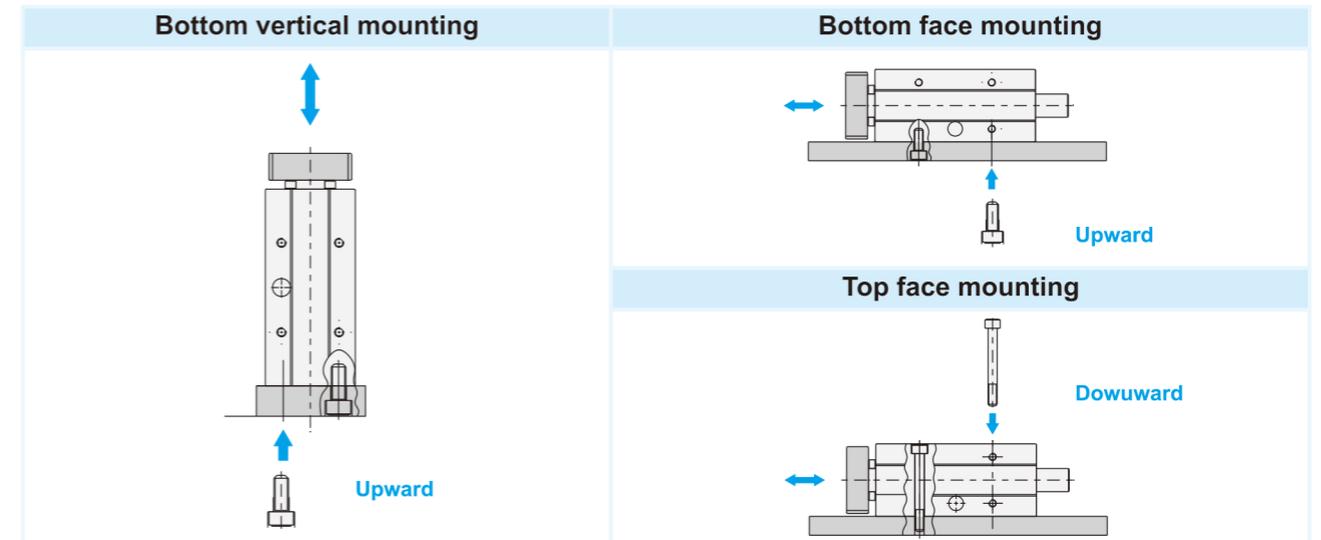


No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Barrel	Aluminum alloy	1	13	Snap ring	Spring steel	1
2	Front cover	Aluminum alloy	1	14	Fixing screw	Alloy steel	1
3	Front plate	Ferroalloy	1	15	Fixing screw	Alloy steel	2
4	Piston rod	Carbon steel	1	16	Piston O-ring	NBR	1
5	Guide rod	Carbon steel/ Bearing steel	2	17	Snap ring	Spring steel	2
6	Bush bearing	Alloy steel	1	18	Snap ring	Spring steel	1
7	Rear cover	Aluminum alloy	1	19	Piston packing	NBR	1
8	Piston	Aluminum alloy	1	20	Magnet	Ferrite magnet	1
9	Magnet holder	Aluminum alloy	1	21	Cushion plate	NBR	2
10	Linear bearing	Bearing steel	2(4)	22	Bush bearing	Alloy steel	2(4)
11	O-ring	NBR	2	23	Bush bearing support	Aluminum alloy	2(4)
12	Rod packing	NBR	1				

Stroke table

Model	Standard stroke (mm)											
	10	20	25	30	40	50	75	100	125	150	175	200
TRCL12 / TRCM12	●	●	●	●	●	●	●	●				
TRCL16 / TRCM16	●	●	●	●	●	●	●	●				
TRCL20 / TRCM20	●	●	●	●	●	●	●	●				
TRCL25 / TRCM25	●	●	●	●	●	●	●	●				
TRCL32 / TRCM32			●			●	●	●	●	●	●	●
TRCL40 / TRCM40			●			●	●	●	●	●	●	●
TRCL50/ TRCM50			●			●	●	●	●	●	●	●
TRCL63 / TRCM63			●			●	●	●	●	●	●	●

Mounting example



Sensor mounting example

