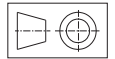




Hydraulic Cylinders - LM7 Series (Magnetic)



- Rated Pressure 50 kg/cm²
- Peak Pressure 70 kg/cm²
- Cylinder bore diameters up to 160 mm
- Temperature range:- -20°C to 90°C. (optional seals for temp. up to 180°C)



BASIC CYLINDER

SPECIFICATION OF MATERIALS

END COVERS : Precision machined steel

CYLINDER BARREL : Stainless steel, honed and polished internally to a maximum surface roughness of Ra=0.4 microns.

PISTON : Stainless steel, precisely machined for perfect alignment

PISTON BEARING : Polyester fabric with polyester resin+PTFE for maximum rigidity

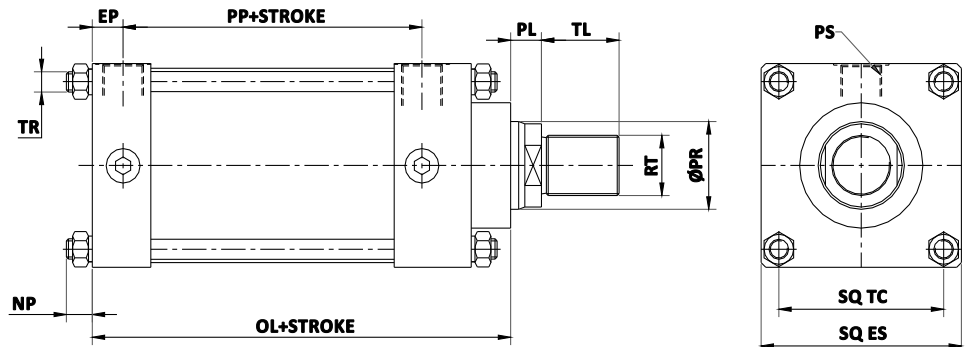
PISTON ROD : Medium carbon steel, ground Hard-chrome plated & polished to a maximum roughness of Ra=0.4 microns

PISTON ROD BEARING : Polyester fabric with polyester resin+PTFE for maximum rigidity

SEALING SYSTEM : We use a wide range of international standard sealing systems to suit various applications & temperatures

MOUNTINGS : Accurately machined steel suitable for heavy duty application

TIE RODS : Stainless Steel

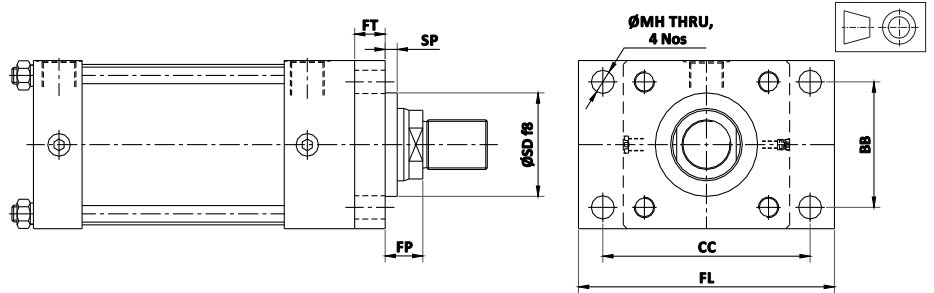
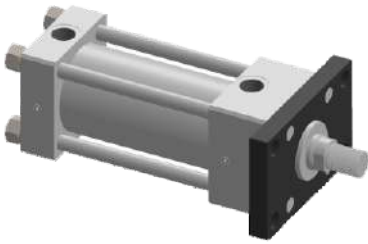


BORE DIA	PR DIA	ES (Sq)	RT	PS (BSP)	OL	PL	TL	PP	TR	NP	EP	Reed Switch Code
25	12	40	M10x1.25	1/4"	135	8	15	82	M6x1	8	12	RS-206
40	16	54	M12x1.25	3/8"	151	8	20	95	M8x1.25	10	14	RS-208
50	20	68	M14x1.5	3/8"	155	10	25	95	M8x1.25	10	14	RS-208
63	25	76	M20x1.5	3/8"	172	10	30	103	M10x1.5	12.5	17	RS-210
80	28	94	M22x1.5	1/2"	191	12	30	119	M12x1.75	15	18	RS-212
100	36	112	M27x2	1/2"	218	16	45	133	M12x1.75	15	20	RS-212
125	45	148	M36x2	1/2"	228	18	45	142	M16x2	18	21	RS-216
160	56	184	M42x2	3/4"	271	20	50	160	M16x2	18	26	RS-216

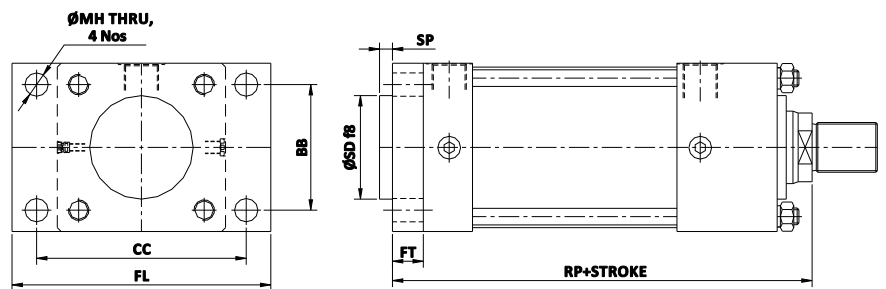
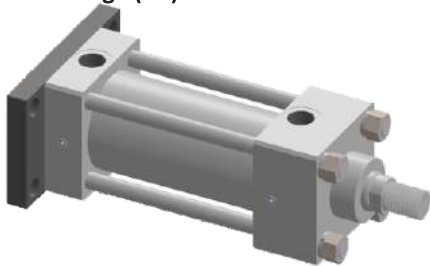
Standard Mountings - LM7 Series



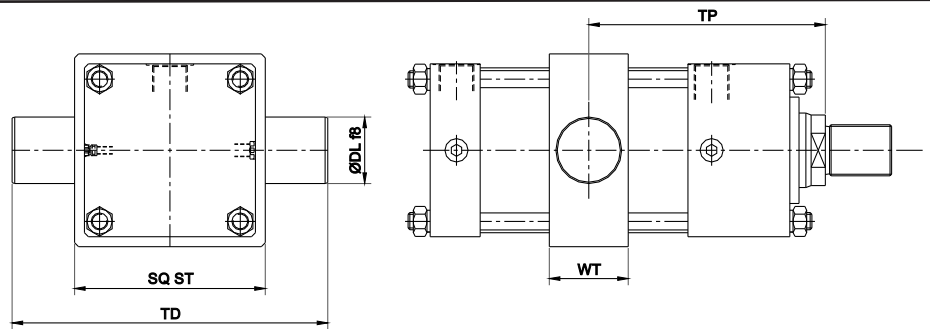
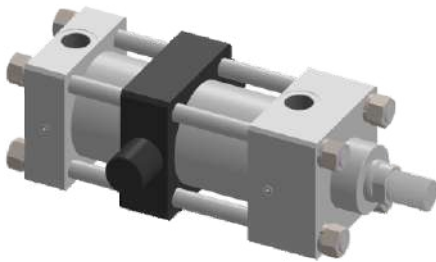
Front Flange (FF)



Rear Flange (RF)



Intermediate Trunnion (IT)



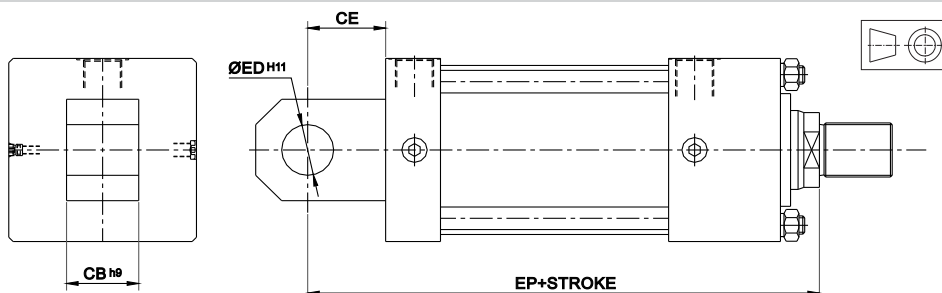
DIMENSIONAL DETAILS

BORE	25	40	50	63	80	100	125	160
BB	28	42	52	58	72	90	118	156
CC	52	66	84	92	114	134	174	210
FL	65	78	100	108	134	154	200	236
SD	27	44	44	62	62	88	88	100
SP	4	4	4	4	4	4	4	4
MH	6.6	6.6	9	9	11	11	14	14
FT	8	10	10	16	16	20	20	25
FP	12	12	14	14	16	20	22	24
RP	151	169	175	198	219	254	266	316
WT	25	32	38	38	50	50	50	58
TD	80	104	118	130	150	170	208	278
ST	48	58	76	84	100	125	162	208
DL	20	25	25	25	25	25	25	35
TP	TO BE SPECIFIED BY CUSTOMER							

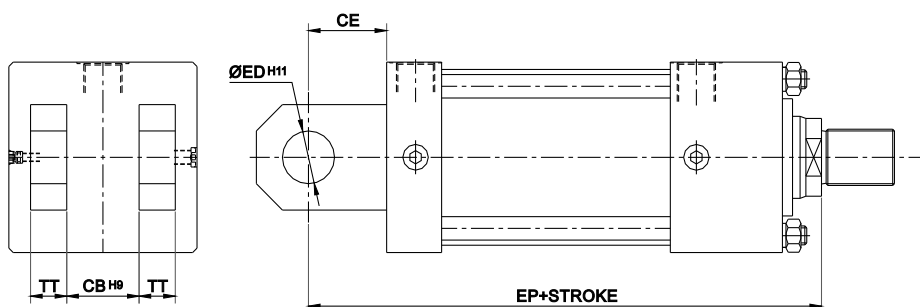
Standard Mountings - LM7 Series



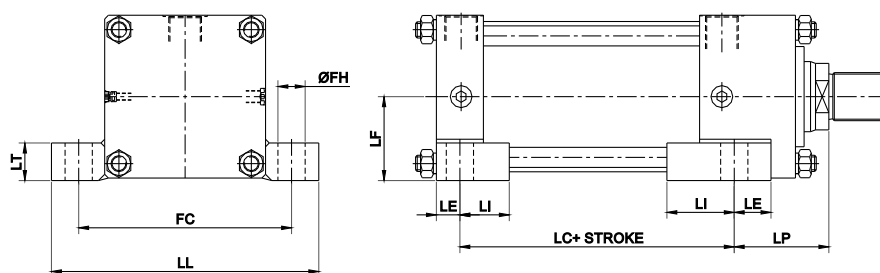
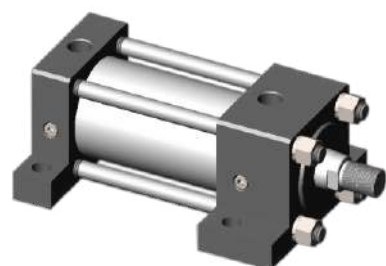
Rear Eye (RE)



Rear Clevis (RC)



Foot Lug (FL)



DIMENSIONAL DETAILS

BORE	25	40	50	63	80	100	125	160
CB	12	20	20	20	32	32	32	40
TT	8	12	12	12	16	16	16	20
ED	10	12	12	12	20	20	20	25
CE	18	20	20	20	32	32	32	40
EP	161	179	185	202	235	266	278	331
LC	85	110	118	120	138	148	155	188
LL	70	98	112	120	146	168	228	264
FC	58	78	92	100	122	144	192	228
LI	8	22	22	22	32	32	40	40
LE	8	10	10	10	12	12	18	18
LT	8	12	12	12	20	20	25	28
LF	20	30	36	40	50	60	76	95
FH	7	11	11	11	14	14	22	22
LP	50	39	37	52	53	74	73	85

Technical Data & Ordering Details for LM7 Series



TECHNICAL DETAILS											
Bore Dia	Rod Dia	Piston Area		Action Force at Pressure in kgf				Piston velocity in m/s at flow=1 ltr/min		Requisite flow in ltr/min for velocity=0.1 m/s	
(mm)	(mm)	(cm ²)		30 kg/cm ²		50 kg/cm ²					
		+	-	+	-	+	-	+	-	+	-
25	12	4.9	3.8	147.2	113.3	245.3	188.8	0.0340	0.0441	2.94	2.27
40	16	12.6	10.6	376.8	316.5	628.0	527.5	0.0133	0.0158	7.54	6.33
50	20	19.6	16.5	588.8	494.6	981.3	824.3	0.0085	0.0101	11.78	9.89
63	25	31.2	26.3	934.7	787.5	1557.8	1312.5	0.0053	0.0063	18.69	15.75
80	28	50.2	44.1	1507.2	1322.6	2512.0	2204.3	0.0033	0.0038	30.14	26.45
100	36	78.5	68.3	2355.0	2049.8	3925.0	3416.3	0.0021	0.0024	47.10	41.00
125	45	122.7	106.8	3679.7	3202.8	6132.8	5338.0	0.0014	0.0016	73.59	64.06
160	56	201.0	176.3	6028.8	5290.3	10048.0	8817.1	0.0008	0.0009	120.58	105.81

Model Code Indication

L M 7 - 1 0 0 / 5 0 0 - F F - 3 6 - C B - (X) - S S 1 2 - R S - 2 1 2

Series	Bore sizes	Stroke	Mountings	Piston Rod sizes	Cushioning	Accessories & Special features	Sealing System Code	Reed Switch
LM7 Rated Hydraulic Pressure of 50kg/cm ²	Ø25 - 160mm (8 Std. sizes)	To be specified in mm	FF - Front Flange RF - Rear Flange RC - Rear Clevis RE - Rear Eye FL - Foot Lug IT - Intermediate Trunnion ET - Extended Tie Rod	Ø12 - 56mm (8 Std. sizes)	CB - Cushioned at both ends CR - Cushioned at Rear end CF - Cushioned at Front end NC - Non Cushioned	PRE - Rod Eye PRF - Rod Fork SA - Single Acting DE - Double Ended	SS12 (Std.) for alternatives contact us.	RS-206 RS-208 RS-210 RS-212 RS-216 (Select suitable Reed Switch from page 2.120/1)
NOTE:- The right of modification for technical improvement is reserved. All dimensions are in mm unless otherwise specified								

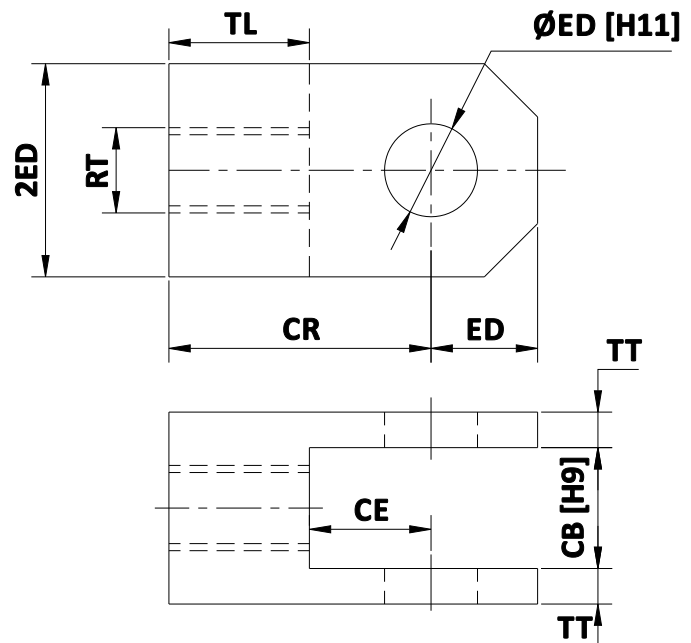
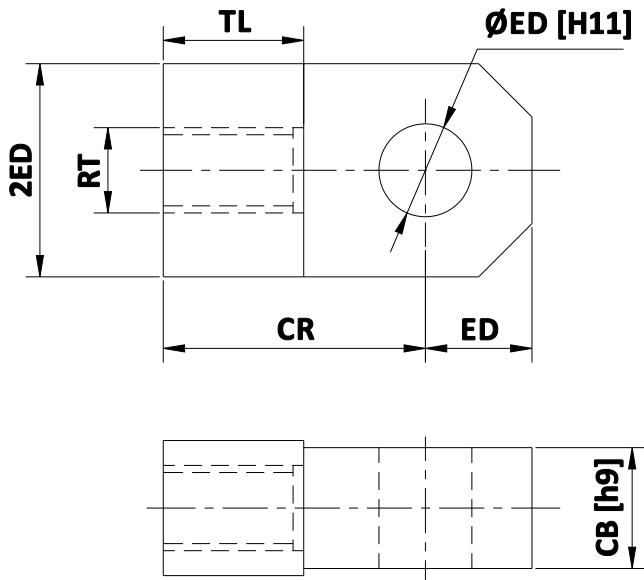
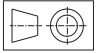
CUSTOM BUILT CYLINDERS CAN ALSO BE OFFERED ON REQUEST

Piston Rod Eye & Piston Rod Fork for LM7 Series



Piston Rod Eye (PRE)

Piston Rod Fork (PRF)



Ordering Code

For Piston Rod Eye :- LM7-PRE-**

where ** - Piston Rod Dia

For Piston Rod Fork :- LM7-PRF-**

where ** - Piston Rod Dia

SPECIFICATION & DIMENSIONAL DETAILS

ROD DIA	RT	TL	CR	ED	CB	TT	CE
12	M10x1.25	18	36	10	12	8	18
16	M12x1.25	22	42	12	20	12	20
20	M14x1.5	29	49	12	20	12	20
25	M20x1.5	35	55	12	20	12	20
28	M22x1.5	35	67	20	32	16	32
36	M27x2	50	82	20	32	16	32
45	M36x2	50	82	20	32	16	32
56	M42x2	55	95	25	40	20	40