

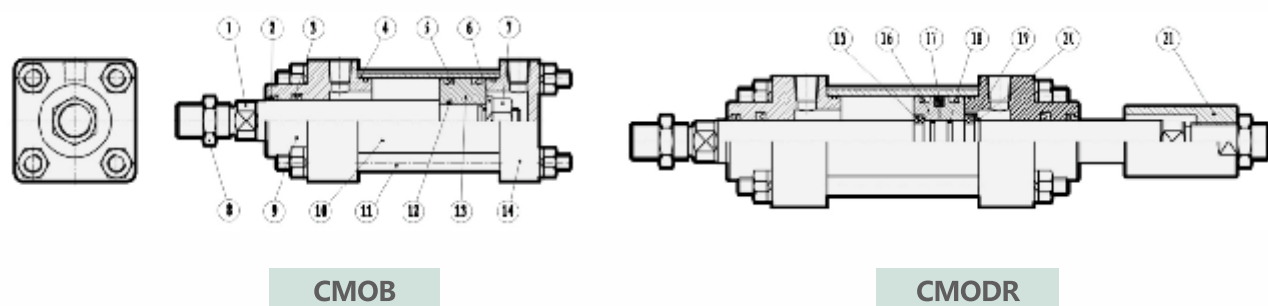
# CMO

## 系列輕型油壓缸

### CMO SERIES HYDRAULIC CYLINDER



#### 輕型油壓缸結構圖 INSIDE STRUCTURE



NO	零件名 Part name	數量 Quantity	NO	零件名 Part name	數量 Quantity	NO	零件名 Part name	數量 Quantity
1	活塞桿 Piston rod	1	8	軸心螺母 Rod nut	1	15	半卡環 Half snap ring	2
2	防塵油封 Dustproof seal	1	9	前端蓋 Rod cover	1	16	銅活塞 Copper piston	1
3	軸用油封 Oil seal for shaft	1	10	缸筒 Cylinder tube	1	17	磁環 Magnet ring	1
4	O型圈 Gasket	2	11	拉桿 Tie rod	4	18	O型圈 Gasket	2
5	活塞油封 Piston seal	2	12	O型圈 Gasket	1	19	擋環 Baffle ring	1
6	彈性墊圈 Spring washer	1	13	活塞 Piston	1	20	軸用擋圈 Washer on shaft	1
7	螺母 Nut	1	14	後端蓋 End cover	1	21	可調螺母 Adjustable nut	1

#### 輕型油壓缸特性資料 Specifications

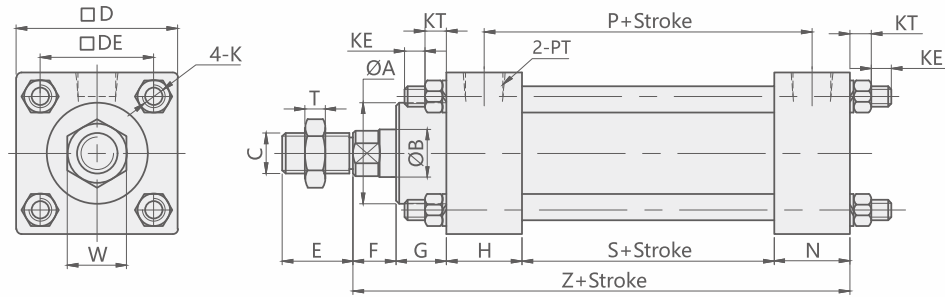
油缸內徑 Hydraulic cylinder inside diameter (mm)	Φ30	Φ40	Φ50	Φ63	Φ80	Φ100	Φ125
工作流體 Power Fluid	以濾清之標準液壓油 Filtered Oil						
缸管材質 Material of cylinder barrel	碳鋼管 Carbon steel STKM-13c / 白鐵管 Stainless tubes SUS 304 / AL Tube A6063TDS-T5						
使用壓力範圍 The range of pressure (MPa)	0.3-7.0 MPA (3-70kg/cm <sup>2</sup> )						
使用速度範圍 The range of speed (mm/sec)	8~300 (mm/sec)						
使用溫度範圍 Range of temperature (°C)	-10 ~ + 60 (°C)						
標準活塞長度 Length of standard piston (PM)	30	30	30	30	35	50	50
訂製行程於 1501-2500mm 間 活塞長度 (PM) Piston length when the stroke is between 1501-2500 mm	60	60	60	60	70	100	100
訂製行程於 2501-4000mm 間 活塞長度 (PM) Piston length when the stroke is between 2501-4000 mm	120	120	120	120	140	150	150

#### 訂購標示法 ORDERING INDICATION

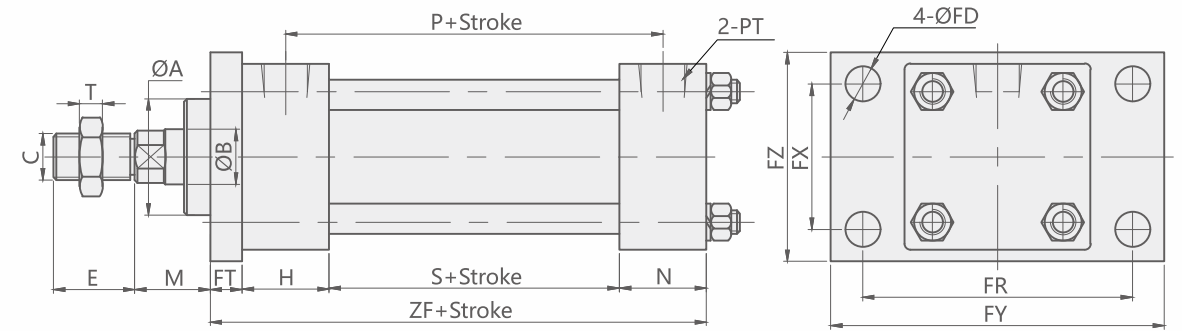
示例: CMOB-R-D-63/25-100-LB-Y

CMOB	系列 Series	CMOB 標準型 Standard type	CMOD 雙軸型 Double Rods type
R	磁性感應 Magnetic	無記號: 不附磁石 R: 內附磁石	Blank: No magnet R: Magnet
D	固定緩衝型式 Fixed Cushioning Type	無記號: 無 F: 前蓋側緩衝 cushion on head cover B: 後蓋側緩衝 cushion on end cover	Blank: No cushion D: 雙側緩衝 cushions on both ends
63	油缸內徑 Hydraulic cylinder inside diameter	Φ30 Φ40 Φ50 Φ63 Φ80 Φ100 Φ125	
25	軸心 Rod	標準 Standard Φ16 Φ20 Φ20 Φ25 Φ30 Φ35 Φ50 最大 Max - Φ25 Φ30 Φ35 Φ40 Φ50 Φ60 無記號: 標準軸心 Blank: standard rod	
100	行程 Stroke	鋼管 Steel barrel (Φ30-Φ125) 白鋼管 Iron barrel (Φ40-Φ100) 標準行程 Standard stroke: 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000.	最大行程: 4米 Max: 4m 最大行程: 2.8米 Max: 2.8m
LB	缸體固定型式 Accessories for body	FA 前法蘭型 Front flange FB 後法蘭 Rear flange LB 腳座型 Foot mount TC 耳軸型 Trunnion type	CA 單耳型 Single trunnion CB 雙耳型 Double trunnion CBP CB+Pin CB with pin CAB CA+P+CB
Y	軸心固定型式 Accessories for rod	Y Y型接頭 Y joint YP Y+Pin Y with pin I I型接頭 I joint KG 浮動接頭 Floating joint	PHS 魚眼接頭 Rod-eye joint T T型接頭 T joint H 焊套接頭 Welding sleeve joint A 可調螺帽 Adjustable nut

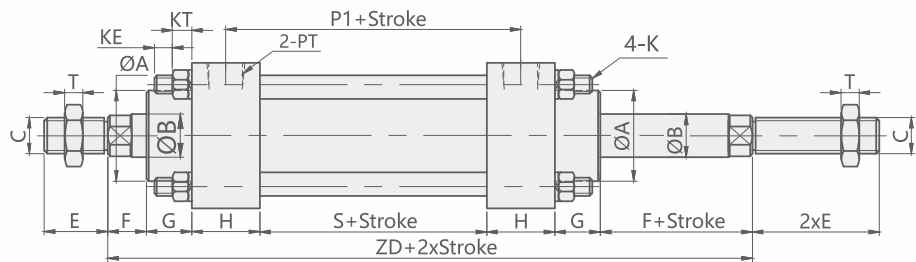
CMOB基本型 CMOB BASIC TYPE



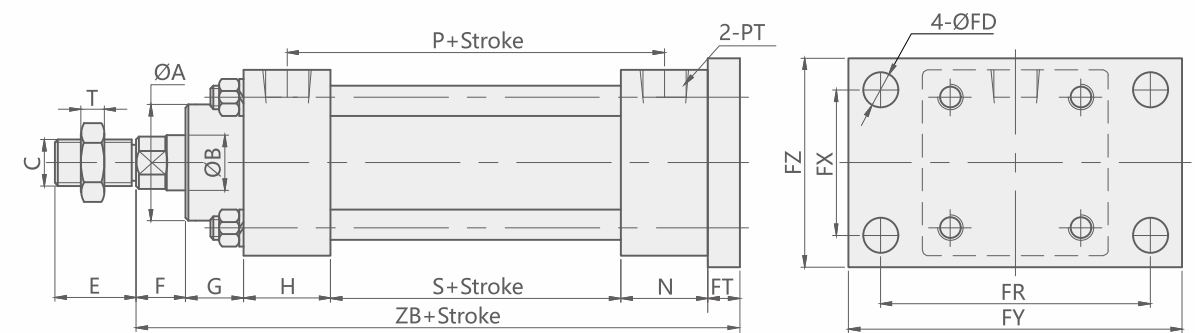
CMOB-FA 前法蘭型 CMOB-FA FRONT FLANGE TYPE



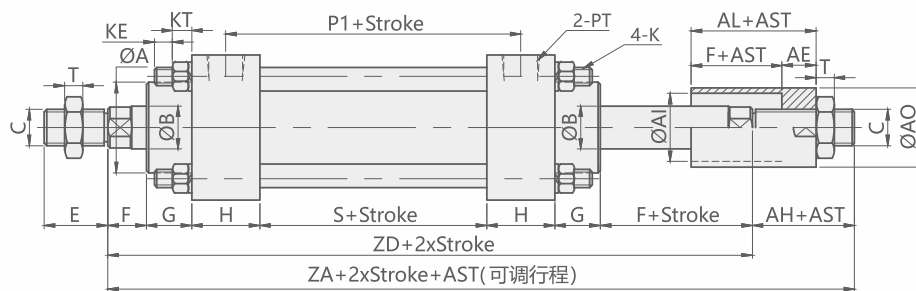
CMOD 双轴型 CMOD DOUBLE-END ROD



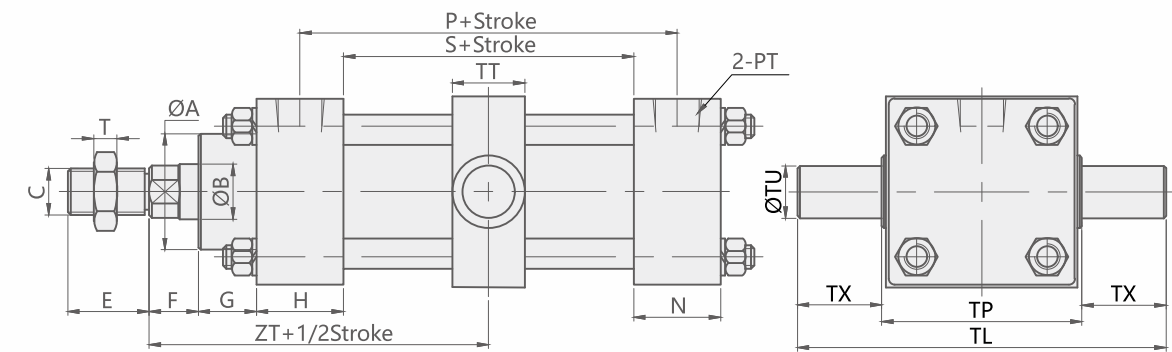
CMOB-FB 後法蘭型 CMOB-FB REAR FLANGE TYPE



CMOD-A双轴可调型 CMOD-A ADJUSTABLE DOUBLE-END ROD



CMOB+TC 中耳軸型 CMOB+TC MIDDLE TRUNNION TYPE



Unit:mm

CMOB-CMOD TYPE																											
BORE	ΦA	ΦB	C	□D	□DE	E	F	G	H	N	P	P1	PT	K	KE	KT	S	W	T	Z	ZA	ZD	AH	AE	ΦAI	ΦAO	AL
Φ30	30	16	M14x1.5	50	34	28	13	15	25	25	71	71	1/4"	M8X1.25	8	8.5	50	22	8	128	181	156	25	17	20	30	30
Φ40	40	20	M16x1.5	64	45	28	17	20	30	30	76.5	76.5	3/8"	M8X1.25	8	8.5	50	23.5	8	147	209	184	25	18	30	35	35
Φ50	45	20	M16x1.5	70	50	28	17	20	30	28	76.5	77	3/8"	M10X1.25	10	10.5	50	23.5	8	145	209	184	25	18	30	35	35
Φ63	55	25	M22x1.5	85	60	40	20	30	31	31	77	77	3/8"	M10X1.25	10	10.5	50	32	13	162	247	212	35	20	35	45	40
Φ80	62	30	M26x1.5	106	74	40	20	32	37	35	87	87	1/2"	M12X1.25	10	13	55	35	13	179	268	233	35	20	40	50	40
Φ100	78	35	M30x1.5	122	89	45	20	32	37	37	115	115	1/2"	M14X1.5	10	14.5	80	41	13	206	298	258	40	25	45	60	45
Φ125	85	50	M40x2.0	147	110	55	25	31	40	40	120	120	1/2"	M16X1.5	10	17	80	55	15	216	322	272	50	30	60	80	55

注意事项

- 1.軸心加大如未註明長度尺寸時，依照本公司規定自行加工。
- 2.CMO系列行程未超過1500mm時，活塞長度 (PM) 如附表，訂製行程如超過1500mm時，活塞長度參閱特性資料表。
- 3.CMO系列行程超過2000mm(含)時，須加拉桿中間固定座。
- 4.CMO系列缸徑40-50油缸之行程超過500mm (含) 以上時，軸心牙改為M18\*P1.5。
- 5.AST為客戶指定之可調行程。

NOTE

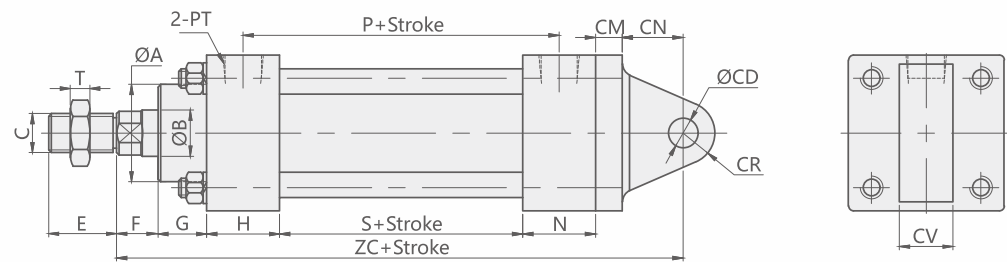
1. For rods extending processing, if the length is not specified, then it should follow our company's stipulation for processing.
2. For the CMO series whose stroke is less than 1500mm, the length of piston is shown in the affiliated table, for those customized stroke, which is more than 1500mm, the length of piston conforms to characteristic table.
3. Middle rod holder must be installed for those CMO series whose stroke is equal to or more than 2000mm.
4. Rod thread should be changed into M18\*P1.5 for CMO series bore size 40-50 bore size whose stroke is equal to or more than 500mm.
5. AST stands for the adjustable stroke designated by customers.

Unit:mm

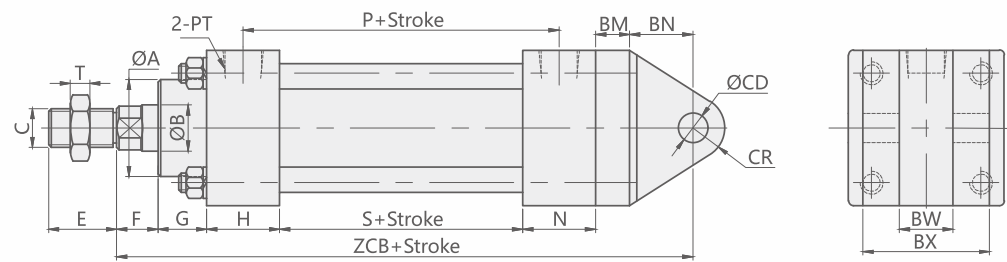
CMOB TYPE													FA+FB TYPE						TC TYPE									
BORE	ΦA	ΦB	C	E	F	G	H	M	N	P	P1	PT	S	T	ZF	ZB	FD	FT	FR	FX	FY	FZ	ZT	TL	TP	TT	ΦTU	TX
Φ30	30	16	M14x1.5	28	13	15	25	17	25	71	71	1/4"	50	8	111	139	9	11	80	34	105	52	78	87	55	25	16	16
Φ40	40	20	M16x1.5	28	17	20	30	26	30	76.5	76.5	3/8"	50	8	121	158	12	11	93	50	115	72	92	127	69	25	18	29
Φ50	45	20	M16x1.5	28	17	20	30	26	28	76.5	77	3/8"	50	8	119	156	12	11	93	50	115	72	92	153	83	28	20	35
Φ63	55	25	M22x1.5	40	20	30	31	36	31	77	77	3/8"	50	13	126	176	14	14	117	60	140	90	106	170	98	32	25	36
Φ80	62	30	M26x1.5	40	20	32	37	32	35	87	87	1/2"	55	13	147	199	14	20	152	75	180	106	116.5	194	124	35	28	35
Φ100	78	35	M30x1.5	45	20	32	37	32	37	115	115	1/2"	80	13	174	226	16	20	158	90	200	125	129	222	142	38	30	40
Φ125	85	50	M40x2.0	55	25	31	40	36	40	120	120	1/2"	80	15	180	236	18	20	184	110	225	153	136	255	175	40	32	40



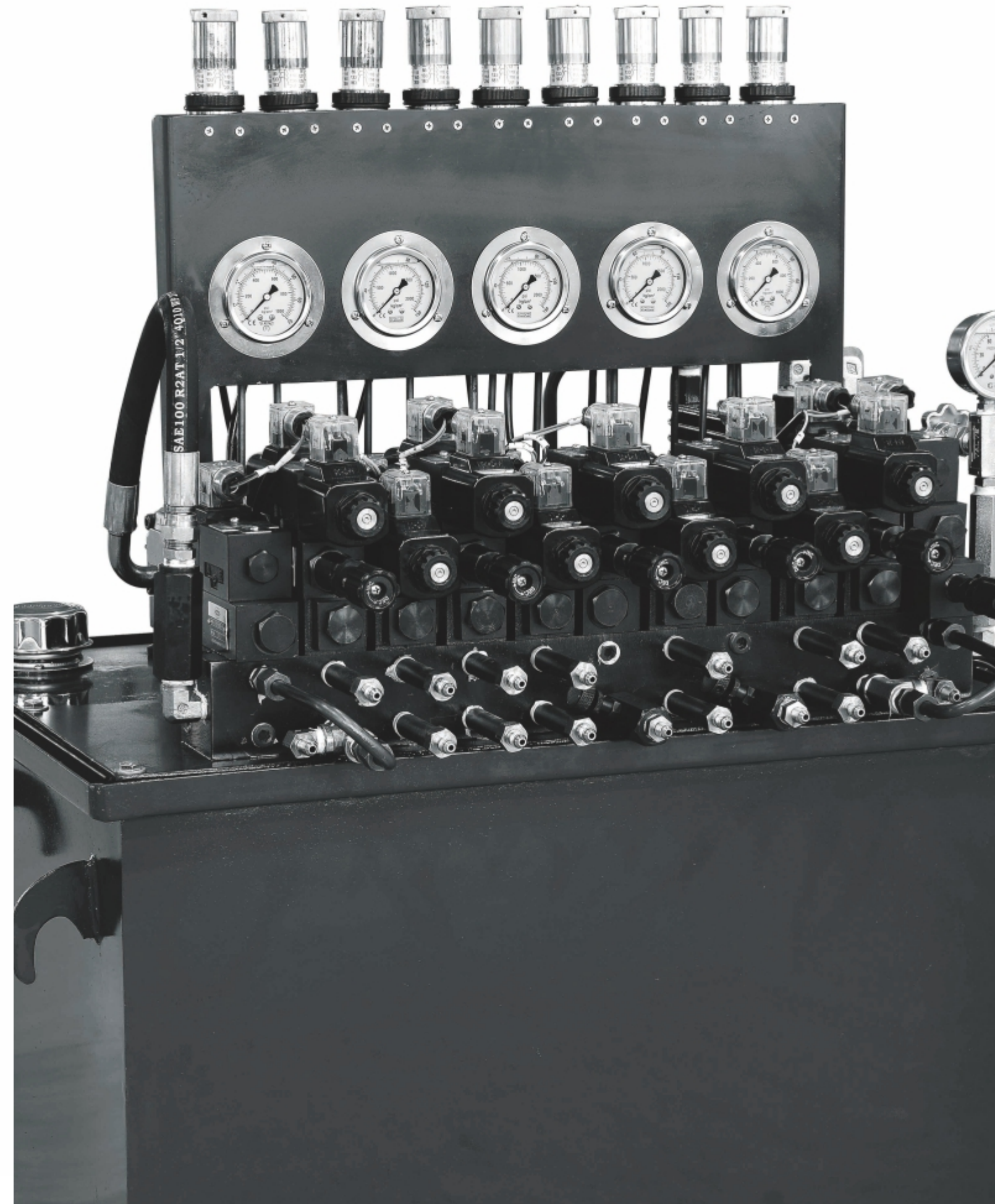
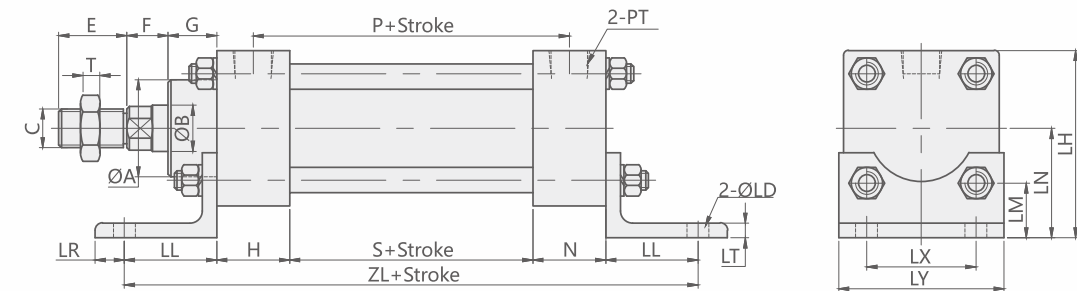
### CMOB+CA單耳型 Single Trunnion Mounting Type



### CMOB+CB雙耳型 Double Trunnion Mounting Type



### CMOB+LB 前後腳座型 Front & Rear Foot Mounting Type



Unit:mm

CMOB TYPE													CA+CB TYPE							LB TYPE													
BORE	ΦA	ΦB	C	E	F	G	H	N	P	PT	S	T	ZC	ΦCD	CR	CM	CN	CV	ZCB	BM	BN	BW	BX	ZL	ΦLD	LH	LN	LM	LL	LR	LT	LX	LY
Φ30	30	16	M14x1.5	28	13	15	25	25	71	1/4"	50	8	159	10	10	11	20	16	162	12	22	16	48	156	9	60	35	18	28	10	5	34	53
Φ40	40	20	M16x1.5	28	17	20	30	30	76.5	3/8"	50	8	183	12	13	11	25	22	187	14	26	22	62	186	9	77	45	22.5	38	12	6	45	68
Φ50	45	20	M16x1.5	28	17	20	30	28	76.5	3/8"	50	8	181	12	13	12	24	22	185	14	26	22	68	184	11	81	46	21	38	12	6	50	73
Φ63	55	25	M22x1.5	40	20	30	31	31	77	3/8"	50	13	212	20	24	19	31	30	212	18	32	30	81	188	11	96	53	23	38	12	6	60	88
Φ80	62	30	M26x1.5	40	20	32	37	35	87	1/2"	55	13	247	30	30	18	50	30	247	18	50	31	61	199	13	113	60	23	36	14	6	74	105
Φ100	78	35	M30x1.5	45	20	32	37	37	115	1/2"	80	13	279	35	35	18	55	35	279	18	55	36	76	250	16	139	78	33.5	48	27	9	89	127
Φ125	85	50	M40x2.0	55	25	31	40	40	120	1/2"	80	15	289	35	35	18	55	35	289	18	55	36	76	262	18	161	87	32	51	24	9	110	150