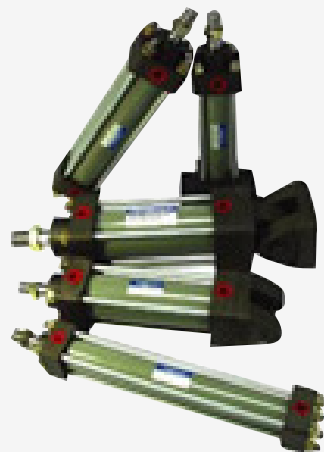


液压缸 MO

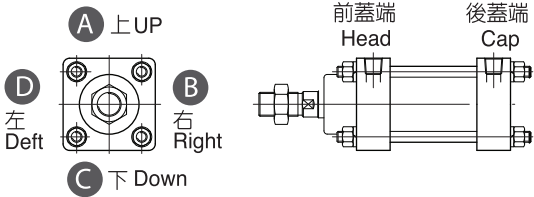


方型鑄件油壓缸特性資料 Specification

氣壓缸內徑 Bore sizes of cylinder(mm)	Ø30	Ø40	Ø50	Ø50A	Ø63	Ø80	Ø100	Ø125
缸管材質 Material of cylinder barrel	鋼管 Carbon steel STKM-13C OR/白鐵管 Stainless tubes SUS 304/鋁合金管 Aluminum alloy tubes							
使用壓力範圍 The range of pressure(MPa)	0.3-7MPa(3-70kg/cm ²)/另有特殊訂製,請來電洽詢							
使用溫度範圍 The range of temperature(c°)	NBR/PU{-25°~+80°(C°)}/VITON{-10°~150°(C°)}							
使用速度範圍 The range of speed(mm/sec)	8~300(mm/sec)/另有低摩擦高速油封選用(1000mm以上/sec),請來電洽詢							
標準衝程活塞(PM)的長度Standard stroke of the piston (PM) length	30	30	30	30	30	35	50	50
各缸徑最大容許衝程 STROKE .mm Max.Permissible	本系列最長衝程為1000mm,如需更長衝程請來電洽詢							
衝程之容許公差/Tolerance of stroke	衝程/STROKE	100 以下	100~250	250~630	631~1000	1001~1600	1601以上	
JIS B 8354 B級/Refer to Righ Table	容許差/Tolerance	0~+0.8	0~+1.0	0~+1.25	0~+1.4	0~+1.6	0~+1.8	
活塞桿螺紋加工精度/Accuracy of Threading at Rod End	JIS 6g/6H(相當JIS 2級)							

MO-B-N-050-A-A-020-0100-N-N-AST000-N



1	型式 / TYPE	B: 標準型 B: Standard type				D: 雙軸型 D: Double-Rod type				
2	磁石/MEANET	R: 內加磁石 (適用Ø32~Ø125) N:沒有 R: with magnet inside(Applicable to Ø32~Ø125) N:No symbol								
3	鋼管內徑/外徑 CYLINDER TUBES	Ø30/Ø36	Ø40/Ø45	Ø50/Ø55	Ø50/Ø55	Ø63/Ø68	Ø80/Ø86	Ø100/Ø110	Ø125/Ø135	
	不銹鋼缸徑/外徑 STAINLESS TUBES	Ø30/Ø36	Ø40/Ø46	Ø50/Ø56	Ø50/Ø56	Ø63/Ø70	Ø80/Ø89	Ø100/Ø110	Ø125/Ø140	
	鋁管內徑/外徑 ALUMINUM TUBES	Ø30/Ø35	Ø40/Ø47	Ø50/Ø58	Ø50/Ø58	Ø63/Ø75	NO	NO	NO	
	備註:本系列如訂製加磁石加鋁管時,最大使用壓力不得超過 3Mpa Note: This series such as custom magnet plus aluminum plus, the maximum working pressure must not exceed									
4	油封選用 SEAL SYMBOL 油封材質/Seal material			適用作動油種類 Kint of fluit						
				一般礦物性作動油 Pertroleum- Based fluid	水乙二醇 Water- Glycol fluid	磷酸酯油 Phosphate- Ester fluid	O/W作動油 Water in oil fluid	W/O作動油 Oil in Water fluid		
	A PU Polyurethane rubber	○	×	×	△	△				
	B NBR Nitrile rubber	○	○	×	○	○				
C VITON Fluoro elastomer	○	×	○	○	○					
備註: 允許使用 ○ 不允許使用 × 請與我們洽詢 △ Note: allowable ○ unallowable × consult us △										
5	入油口位置填入 Port position	前蓋端 Head	A:上(標準型)/B:右/C:下/D:左 A:UP(Standard)/B:Right/C:Down/D:Left							
		後蓋端 Cap	A:上(標準型)/B:右/C:下/D:左 A:UP(Standard)/B:Right/C:Down/D:Left							
		A=AA / B=BB / C=CC / D=DD E=AB / F=AC / G=AD / H=BA I=BC / J=BD / K=CA / L=CB M=CD / N=DA / O=DB / P=DC								
	軸心/ROD	標 準	Ø16	Ø20	Ø20	Ø25	Ø25	Ø30	Ø35	Ø50
		最 大	Ø16	Ø20	Ø20	Ø35	Ø25	Ø40	Ø55	Ø60
6	行程/STROKE	填入需要之衝程 Max Permissible stroke								
7	備註:標準品最大衝程,內徑Ø32~Ø63衝程為1000mm,內徑Ø80~Ø125衝程為1499mm長衝程訂製時,因考量活塞側向支撐力與繫緊柱子鎖固強度,另外因考量油壓缸固定形式與軸心撓曲度等等問題,需在計算強度或參閱技術資料或敬請與我們洽詢									

MO 方型鑄件油壓缸採購指南

Series 7Mpa Hydraulic Cylinders How to Order

9	缸體 固定方式 BORE ACCESSORY	名稱 DESCRIPTION	記號 SYMBOL	略圖 CONFIGURATION	名稱 DESCRIPTION	記號 SYMBOL	略圖 CONFIGURATION
		前蓋矩形法蘭 Rectabgular flange at cylinder head	FA		後蓋矩形法蘭 Rectabgular flange at cylinder cup	FB	
		前後端凸耳形 Foot rounting side end angles	LB		U型搖擺座 U-shaped swing seat	TC	
		後蓋固定 單山型 Plaie clevis at cylinder cap	CA		後蓋可拆 雙山型 Clevis fork at cylinder cap	CB	
		備註：缸體固定如有其它方式可繪製圖面或與我們營業人員洽詢 Note: If the cylinder is fixed in other ways, you can draw a sketch or contact our sales staff					
10	軸心 用配件 ROD ACCESSORY	名稱 DESCRIPTION	記號 SYMBOL	略圖 CONFIGURATION	名稱 DESCRIPTION	記號 SYMBOL	略圖 CONFIGURATION
		Y型接頭 Rod Clevis	MY		Y型接頭附 插銷 Rod Clevis With Pin	MYP	
		I型接頭 I Rod end mounting	MI		浮動接頭 Compensating Joint	KG	
		魚眼接頭 Oscillating Eye	PH		T型接頭 T Rod end mounting	HT	
		焊接接頭 H Rod end mounting	HH		可調螺帽 Adjustble nut	AST	
		備註：軸心固定如有其它方式,可繪製草圖或與我們營業人員洽詢 Note: If the axis is fixed in other ways, you can draw a sketch or contact our sales staff					
11	雙軸 可調行程	填入需要的可調行程 AST mm 無記號:沒有 / NO Symbol Adjustble stroke					
12	近接開關 SENSOR SWITCH	無記號:無裝置(標準型)/B:兩端近接開關/X:近接在前/Y:近接在後/T:近接*3/U:近接*4 N:NO symbo /B:Double side sensor switch/X:Rod-cover side sensor switch/ Y:Head-cover side sensor switch/T:sensor switch*3/U:sensor switch*4					

MOB

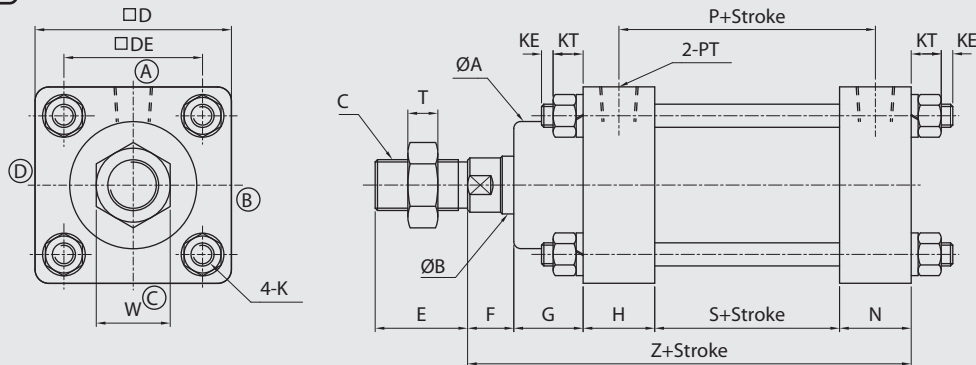
方型鑄件油壓缸結構圖
Inside Structure and Parts List

NO	零件名 Part mane	數量 Quantity	NO	零件名 Part mane	數量 Quantity	NO	零件名 Part mane	數量 Quantity
1	活塞桿 Piston rod	1	6	彈簧華司 Spring washer	1	11	固定柱子 Tie bolt	4
2	刮油環 Dust wiper	1	7	螺帽 Nut	1	12	O型環 Gasket	1
3	軸用油封 Rod packiog	1	8	軸心螺帽 Rod nut	1	13	活塞本體 Piston	1
4	O型環 Gasket	2	9	前蓋 Rod cover	1	14	後蓋 End cover	1
5	橡膠活塞環 Piston packing	2	10	油缸本體 Cylinder tube	1	15		

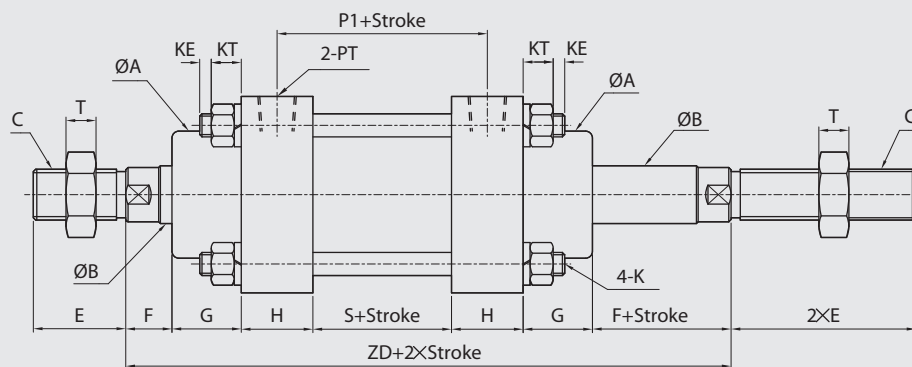
方型鑄件油壓缸尺寸圖

7Mpa Hydraulic Cylinders Dimensional Features

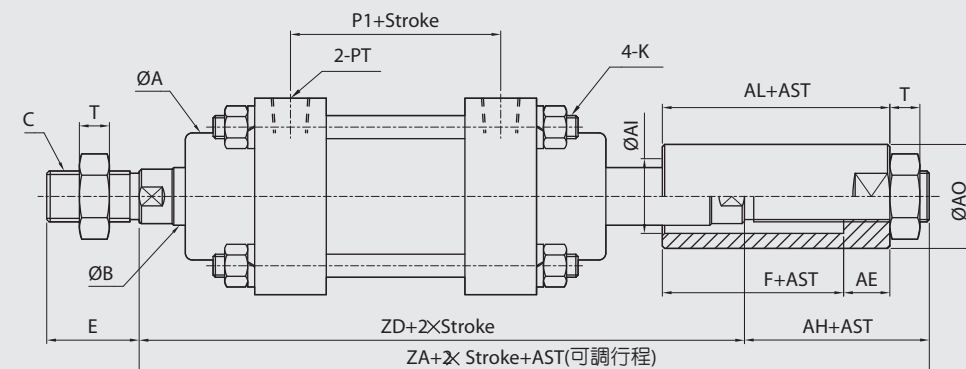
MOB MO+B(標準型) TYPE



MOD MO+D(雙軸型) TYPE



MOD MOD+AST(雙軸附可調帽) TYPE



MOB-MOD TYPE																									A(可調帽) TYPE				
BORE	SIZE	ØA	ØB	C	□D	□DE	E	F	G	H	N	P	P1	PM	PT	K	KE	KT	S	W	T	Z	ZA	ZD	AH	AE	ØAI	ØAO	AL
	Ø30	30	16	M14XP1.5	50	34	28	13	15	25	25	75	75	30	1/4	M8XP1.25	8	8.5	50	22	8	128	181	156	25	15	20	30	30
	Ø40	40	20	M16XP1.5	64	45	28	17	20	30	30	80	80	30	3/8	M8XP1.25	8	8.5	50	23.5	8	147	209	184	25	15	30	35	35
	Ø50	45	20	M16XP1.5	70	50	28	17	20	30	28	79	80	30	3/8	M10XP1.25	10	10.5	50	23.5	8	145	209	184	25	15	30	35	35
	Ø50A	50	25	M22XP1.5	70	50	40	20	30	30	28	79	80	30	3/8	M10XP1.25	10	10.5	50	32	13	158	245	210	35	20	35	45	40
	Ø63	55	25	M22XP1.5	85	60	40	20	30	31	31	81	81	30	3/8	M10XP1.25	10	10.5	50	32	13	162	247	212	35	20	35	45	40
	Ø80	62	30	M26XP1.5	106	74	40	20	32	37	35	91	92	35	1/2	M12XP1.5	10	13	55	35	13	179	268	233	35	20	40	50	40
	Ø100	78	35	M30XP1.5	122	89	45	20	32	37	37	117	117	50	1/2	M14XP1.5	10	14.5	80	41	13	206	293	258	40	25	45	60	45
	Ø125	85	50	M40XP2.0	147	110	55	25	31	40	40	120	120	50	1/2	M16XP1.5	10	17	80	55	15	216	317	272	50	30	60	80	55

備註：

- 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.M0 行程未超過 1500mm時,活塞(PM)長度如附表,訂製行程如超過1500mm時, 活塞長度參閱特性資料表。
- 3.M0 行程超過 2000mm(含)時,須加拉桿中間固定座。
- 4.M040~M050之行程超過500mm(含)以上時,軸心牙改為M18XP1.5。
- 5.AST為客戶指定之可調行程。

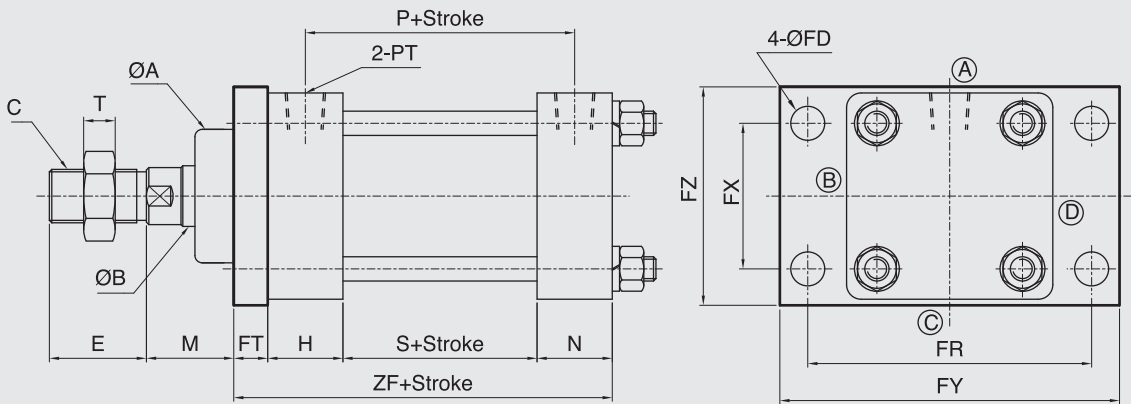
- 1.The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- 2.The MO series stroke exceed within (include) 1500mm as see the property information of the length (PM) to order exceed stroke 1500mm.
- 3.When this series of stroke exceeds(includes) 2000mm,the fixed base of the pull rod must be added in the middle.
- 4.M040~M050 stroke exceed (include) 500mm, axletree broaden be M18xP1.5.
- 4.AST:Adjustable stroke by customer assignment.

Ref. MA HA MT MTH SR MR MI, MK Pneu. accessories MO HO FO SO RO CRO HSO HRO Hydra. accessories

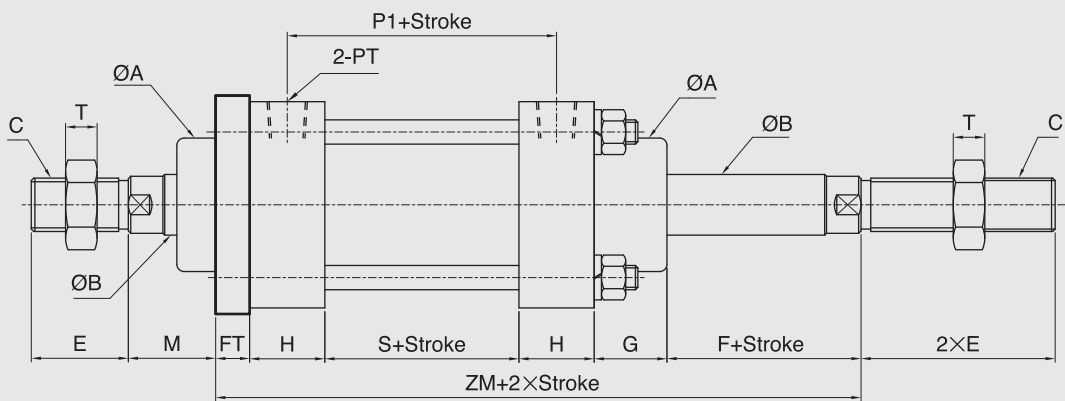
MO-FA
Series

方型鑄件油壓缸FA板尺寸圖
7Mpa Hydraulic Cylinders FA Dimensional Features

MOB MOB+FA TYPE



MOD MOD+FA TYPE



MOB-MOD TYPE																			FA- TYPE					
BORE	SIZE	ØA	ØB	C	E	F	G	H	M	N	P	P1	PM	PT	S	T	ZF	ZM	ØFD	FT	FR	FX	FY	FZ
	Ø32	30	16	M14XP1.5	28	13	15	25	17	25	75	75	30	1/4	50	8	111	139	9	11	80	34	105	52
	Ø40	40	20	M16XP1.5	28	17	20	30	26	30	80	80	30	3/8	50	8	121	158	12	11	93	50	115	72
	Ø50	45	20	M16XP1.5	28	17	20	30	26	28	79	80	30	3/8	50	8	119	158	12	11	93	50	115	72
	Ø50A	50	25	M22XP1.5	40	20	30	30	39	28	79	80	30	3/8	50	13	119	171	12	11	93	50	115	72
	Ø63	55	25	M22XP1.5	40	20	30	31	36	31	81	81	30	3/8	50	13	126	176	14	14	117	60	140	90
	Ø80	62	30	M26XP1.5	40	20	32	37	32	35	91	92	35	1/2	55	13	147	201	14	20	152	75	180	105
	Ø100	78	35	M30XP1.5	45	20	32	37	32	37	117	117	50	1/2	80	13	174	226	16	20	158	90	200	125
	Ø125	85	50	M40XP2.0	55	25	31	40	36	40	120	120	50	1/2	80	15	180	236	18	20	184	110	225	153

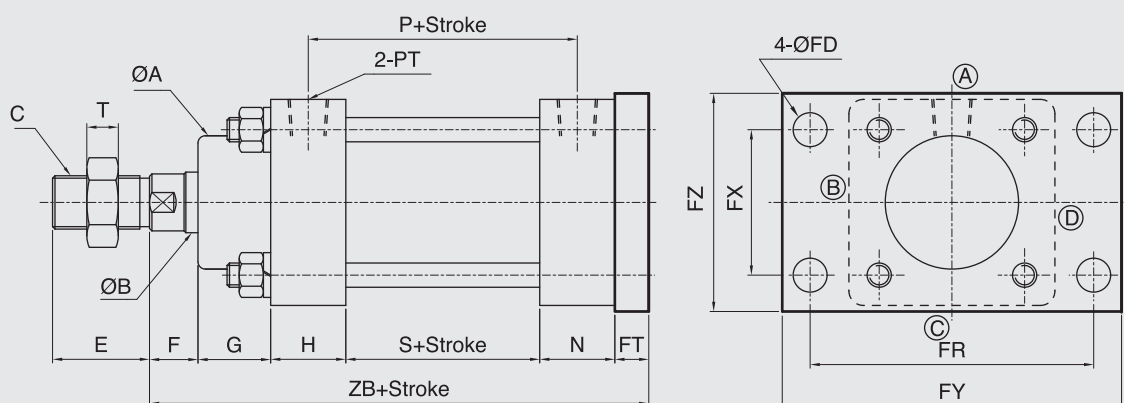
備註：

- 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.MO 行程未超過 1500mm時,活塞(PM)長度如附表,訂製行程如超過1500mm時,活塞長度參閱特性資料表。
3.MO40~MO50之行程超過500mm(含)以上時,軸心牙改為M18XP1.5。
- 1.The length and size of axis were not specifice to constructed must be according to our company design's modify without prior notice.
2.The MO series stroke exceed within (include)1500mm as see the property information of the length (PM) to order exceed stroke 1500mm.
3.MO40~MO50 stroke exceed (include) 500mm, axletree broaden be M18xP1.5.

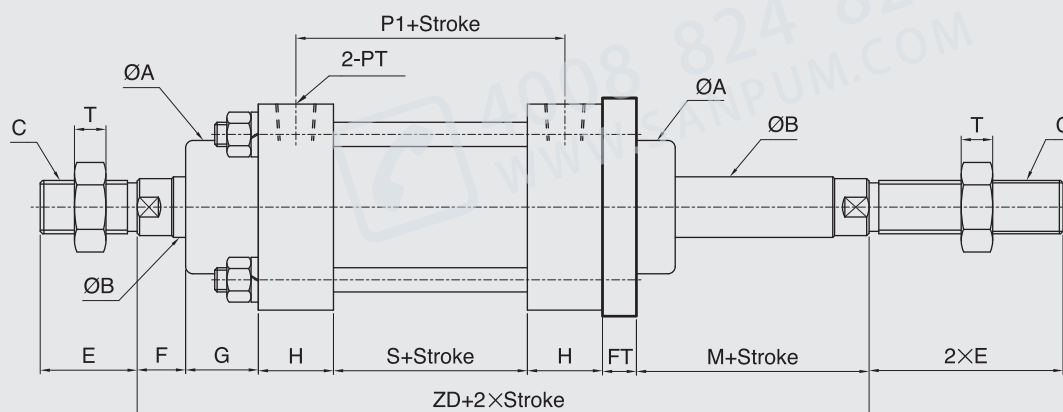
方型鑄件油壓缸FB板尺寸圖

7Mpa Hydraulic Cylinders FB Dimensional Features

MOB MOB+FB TYPE



MOD MOD+FB TYPE



MOB-MOD TYPE																		FB TYPE						
BORE	SIZE	ØA	ØB	C	E	F	G	H	M	N	P	P1	PM	PT	S	T	ZB	ZD	ØFD	FT	FR	FX	FY	FZ
	Ø32	30	16	M14XP1.5	28	13	15	25	17	25	75	75	30	1/4	50	8	139	156	9	11	80	34	105	52
	Ø40	40	20	M16XP1.5	28	17	20	30	26	30	80	80	30	3/8	50	8	158	184	12	11	93	50	115	72
	Ø50	45	20	M16XP1.5	28	17	20	30	26	28	79	80	30	3/8	50	8	156	184	12	11	93	50	115	72
	Ø50A	50	25	M22XP1.5	40	20	30	30	39	28	79	80	30	3/8	50	13	169	210	12	11	93	50	115	72
	Ø63	55	25	M22XP1.5	40	20	30	31	36	31	81	81	30	3/8	50	13	176	212	14	14	117	60	140	90
	Ø80	62	30	M26XP1.5	40	20	32	37	32	35	91	92	35	1/2	55	13	199	233	14	20	152	75	180	105
	Ø100	78	35	M30XP1.5	45	20	32	37	32	37	117	117	50	1/2	80	13	226	258	16	20	158	90	200	125
	Ø125	85	50	M40XP2.0	55	25	31	40	36	40	120	120	50	1/2	80	15	236	272	18	20	184	110	225	153

備註：

- 軸心加大如未註明長度尺寸時,依照本公司規定自行加工。
- M0 行程未超過 1500mm時,活塞(PM)長度如附表,訂製行程如超過1500mm時, 活塞長度參閱特性資料表。
- M040~M050之行程超過500mm(含)以上時,軸心牙改為M18XP1.5。

- The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- The MO series stroke exceed within (include)1500mm as see the property information of the length (PM) to order exceed stroke 1500mm.
- MO40~MO50 stroke exceed (include) 500mm, axletree broaden be M18xP1.5.

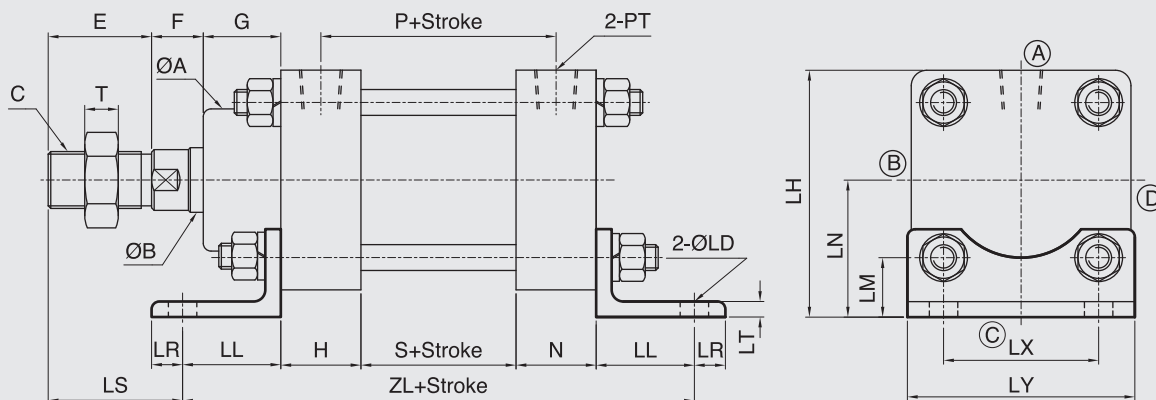
MO-LB

Series

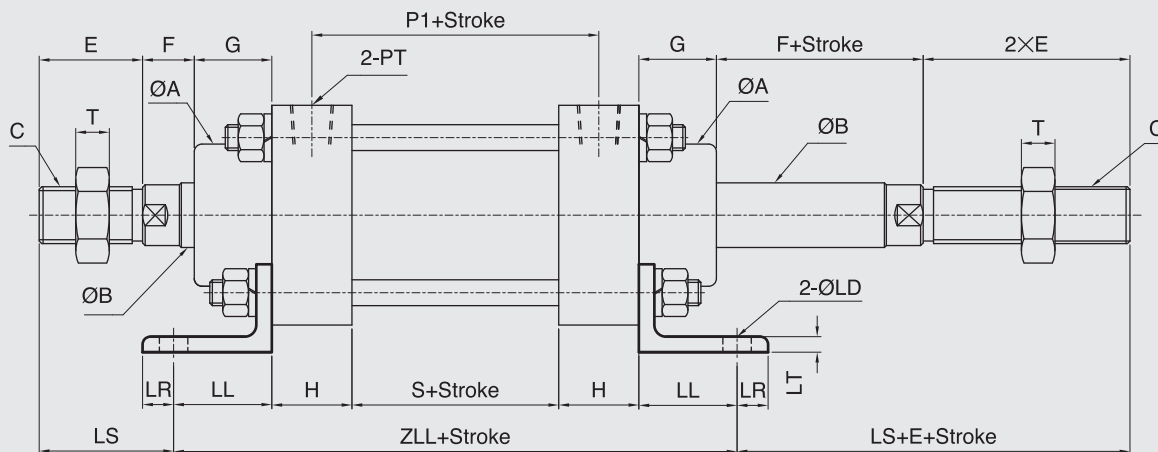
方型鑄件油壓缸LB架尺寸圖

7Mpa Hydraulic Cylinders LB Dimensional Features

MOB MOB+LB(架) TYPE



MOD MOD+LB TYPE



MOB-MOD TYPE

LB TYPE

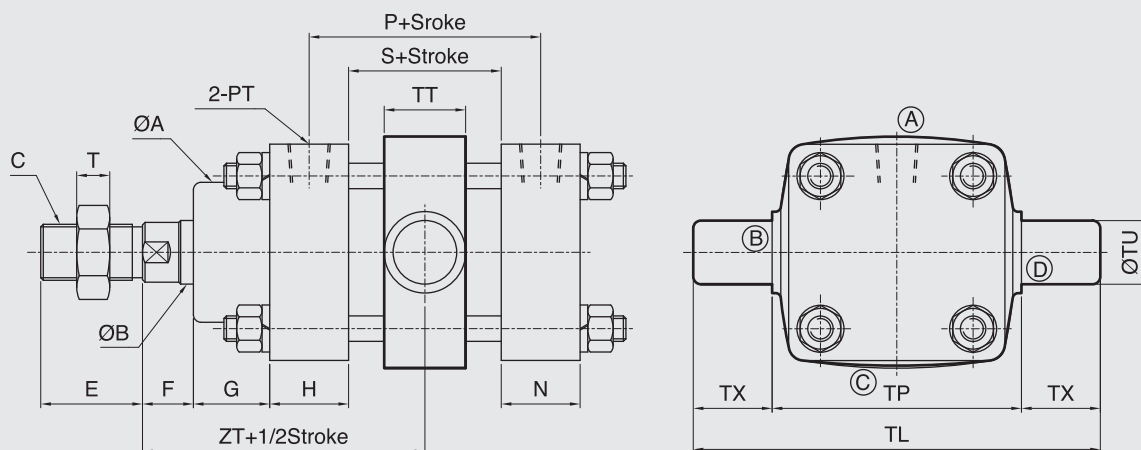
BORE	SIZE	ØA	ØB	C	E	F	G	H	N	LS	P	P1	PM	PT	S	T	ZL	ZLL	ØLD	LH	LN	LM	LL	LR	LT	LX	LY
	Ø32	30	16	M14XP1.5	28	13	15	25	25	28	75	75	30	1/4	50	8	156	156	9	60	35	18	28	10	5	34	53
	Ø40	40	20	M16XP1.5	28	17	20	30	30	27	80	80	30	3/8	50	8	186	186	9	77	45	22.5	38	12	6	45	68
	Ø50	45	20	M16XP1.5	28	17	20	30	28	27	79	80	30	3/8	50	8	184	186	11	81	46	21	38	12	6	50	73
	Ø50A	50	25	M22XP1.5	40	20	30	30	28	52	79	80	30	3/8	50	13	184	186	11	81	46	21	38	12	6	50	73
	Ø63	55	25	M22XP1.5	40	20	30	31	31	52	81	81	30	3/8	50	13	188	188	11	96	53	23	38	12	6	60	88
	Ø80	62	30	M26XP1.5	40	20	32	37	35	56	91	92	35	1/2	55	13	199	201	13	113	60	23	36	14	6	74	105
	Ø100	78	35	M30XP1.5	45	20	32	37	37	49	117	117	50	1/2	80	13	250	250	16	139	78	33.5	48	27	9	89	127
	Ø125	85	50	M40XP2.0	55	25	31	40	40	60	120	120	50	1/2	80	15	262	262	18	161	87	32	51	24	9	110	150

備註：

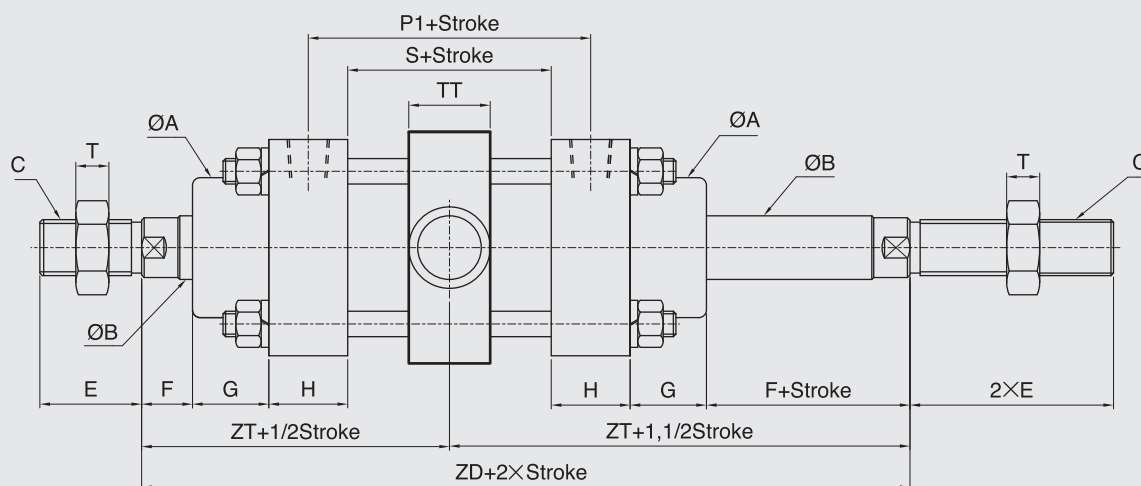
- 軸心加大如未註明長度尺寸時,依照本公司規定自行加工。
- MO 行程未超過 1500mm時,活塞(PM)長度如附表,訂製行程如超過1500mm時, 活塞長度參閱特性資料表。
- MO 行程超過 2000mm(含)時,須加拉桿中間固定座。
- MO40~MO50之行程超過500mm(含)以上時,軸心牙改為M18XP1.5。

- The length and size of axis were not specifice to constructed must be according to our company design's modify without prior notice.
- The MO series stroke exceed within (include)1500mm as see the property information of the length (PM) to order exceed stroke 1500mm.
- When this series of stroke exceeds(includes) 2000mm,the fixed base of the pull rod must be added in the middle.
- MO40~MO50 stroke exceed (include) 500mm, axletree broaden be M18xP1.5.

MOB MOB+TC TYPE



MOD MOD+TC TYPE



MOB-MOD TYPE																		TC TYPE				
BORE	SIZE	ØA	ØB	C	E	F	G	H	N	P	P1	PM	PT	S	T	ZD	ZT	TL	TP	TT	ØTU	TX
	Ø30	30	16	M14XP1.5	28	13	15	25	25	75	75	30	1/4	50	8	156	78	87	55	25	16	16
	Ø40	40	20	M16XP1.5	28	17	20	30	30	80	80	30	3/8	50	8	184	92	127	69	25	18	29
	Ø50	45	20	M16XP1.5	28	17	20	30	28	79	80	30	3/8	50	8	184	92	153	83	28	20	35
	Ø50A	50	25	M22XP1.5	40	20	30	30	28	79	80	30	3/8	50	13	210	105	153	83	28	20	35
	Ø63	55	25	M22XP1.5	40	20	30	31	31	81	81	30	3/8	50	13	212	106	170	98	32	25	36
	Ø80	62	30	M26XP1.5	40	20	32	37	35	91	92	35	1/2	55	13	233	116.5	194	124	35	28	35
	Ø100	78	35	M30XP1.5	45	20	32	37	37	117	117	50	1/2	80	13	258	129	222	142	38	30	40
	Ø125	85	50	M40XP2.0	55	25	31	40	40	120	120	50	1/2	80	15	272	136	255	175	40	32	40

備註：

- 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.MO 行程未超過 1500mm時,活塞(PM)長度如附表,訂製行程如超過1500mm時, 活塞長度參閱特性資料表。
- 3.MO40~MO50之行程超過500mm(含)以上時,軸心牙改為M18XP1.5。

- 1.The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- 2.The MO series stroke exceed within (include)1500mm as see the property information of the length (PM) to order exceed stroke 1500mm.
- 3.MO40~MO50 stroke exceed (include) 500mm, axletree broaden be M18xP1.5.

Ref. MA HA MT MTH SR MR MI, MK Pneu. accessories MO HO FO SO RO CRO HSO HRO Hydra. accessories

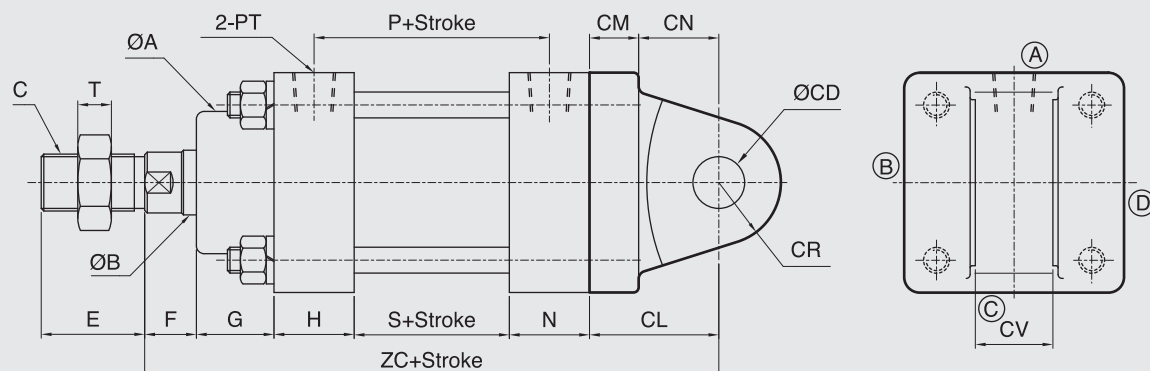
MO-CA,CB

Series

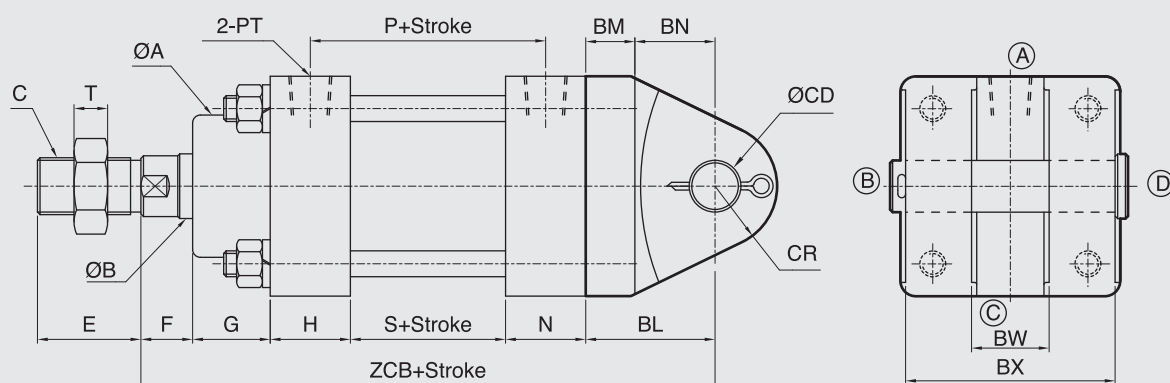
方型鑄件油壓缸CA,CB尺寸圖

7Mpa Hydraulic Cylinders CA,CB Dimensional Features

MOB MOB+CA TYPE



MOB MOB+CB TYPE



MOB TYPE																		CA TYPE				CB TYPE					
BORE	SIZE	ØA	ØB	C	E	F	G	H	N	P	PM	PT	S	T	ZC	ZCB	ØCD	CR	CL	CM	CN	CV	BL	BM	BN	CW	CX
	Ø30	30	16	M14XP1.5	28	13	15	25	25	75	30	1/4	50	8	159	162	10	10	31	11	20	16	34	12	22	16	48
	Ø40	40	20	M16XP1.5	28	17	20	30	30	80	30	3/8	50	8	183	187	12	13	36	11	25	22	40	14	26	22	62
	Ø50	45	20	M16XP1.5	28	17	20	30	28	79	30	3/8	50	8	181	185	12	13	36	12	24	22	40	14	26	22	68
	Ø50A	50	25	M22XP1.5	40	20	30	30	28	79	30	3/8	50	13	194	198	12	13	36	12	24	22	40	14	26	22	68
	Ø63	55	25	M22XP1.5	40	20	30	31	31	81	30	3/8	50	13	212	212	20	24	50	19	31	30	50	18	32	30	81
	Ø80	62	30	M26XP1.5	40	20	32	37	35	91	35	1/2	55	13	247	247	30	30	68	18	50	30	68	18	50	31	61
	Ø100	78	35	M30XP1.5	45	20	32	37	37	117	50	1/2	80	13	279	279	35	35	73	18	55	35	73	18	55	36	76
	Ø125	85	50	M40XP2.0	55	25	31	40	40	120	50	1/2	80	15	289	289	35	35	73	18	55	35	73	18	55	36	76

備註：

- 軸心加大如未註明長度尺寸時,軸心尺寸依照本公司規定自行加工。
- MO 行程未超過 1500mm時,活塞(PM)長度如附表,訂製行程如超過1500mm時,活塞長度參閱特性資料表。
- MO40~MO50之行程超過500mm(含)以上時,軸心牙改為M18XP1.5。
- MO系列Ø30-Ø125標準CA配件為鑄造成形(材質FCD-45),另有鐵製焊接(材質SS41)可供選擇。
- MO系列Ø30-Ø63標準CB配件為鑄造成形(材質FCD-45),另有鐵製焊接(材質SS41)可供選擇。
- MO系列Ø80-Ø125標準CB配件為鐵製焊接(材質SS41)式。

- The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.
- The MO series stroke exceed within (include)1499mm as see the property information of the length (PM) to order exceed stroke 1500mm.
- MO40~MO50 stroke exceed (include) 500mm, axletree broaden be M18xP1.5.
- MO series Ø30~Ø125 of CA standard accessories is cast type. (material:FCD-45) and iron type (SS41) for optional.
- MO series Ø30~Ø63 of CB standard accessories is cast type (material FCD-45) and material iron SS41 of welding type for optional.
- MO series Ø80~Ø125 of CB standard accessories is iron welding type. (material SS41).

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