RO□

圓型油壓缸採購指南 14Mpa Hydraulic Cylinders How to order

ROB | R | 63 * Ø35 * 100ST | LB + Y + Es2

型式 TYPE	
ROA	平尾型
ROB	LB型
ROC	CA型
ROD	雙軸型

缸內徑 CYLINDER BORE	軸心ROD 標準-最大
Ø40	Ø20-Ø25
Ø50	Ø25-Ø30
Ø63	Ø35-Ø40
Ø80	Ø40-Ø50
Ø100	Ø50-Ø70
Ø125	Ø60-Ø80

無記號	不附磁石
R	內附磁石
本系列適用Ø40-Ø100	

行程 STROKE	
鍍管	Ø40-Ø200
最大衝程4米	
白鐵管	Ø40-Ø100
最大衝程2.8米	

缸體固定型式 ACCESSORY		
FA	前法蘭型	
FB	後法蘭型	
LB	腳座型	
TC	耳軸型	

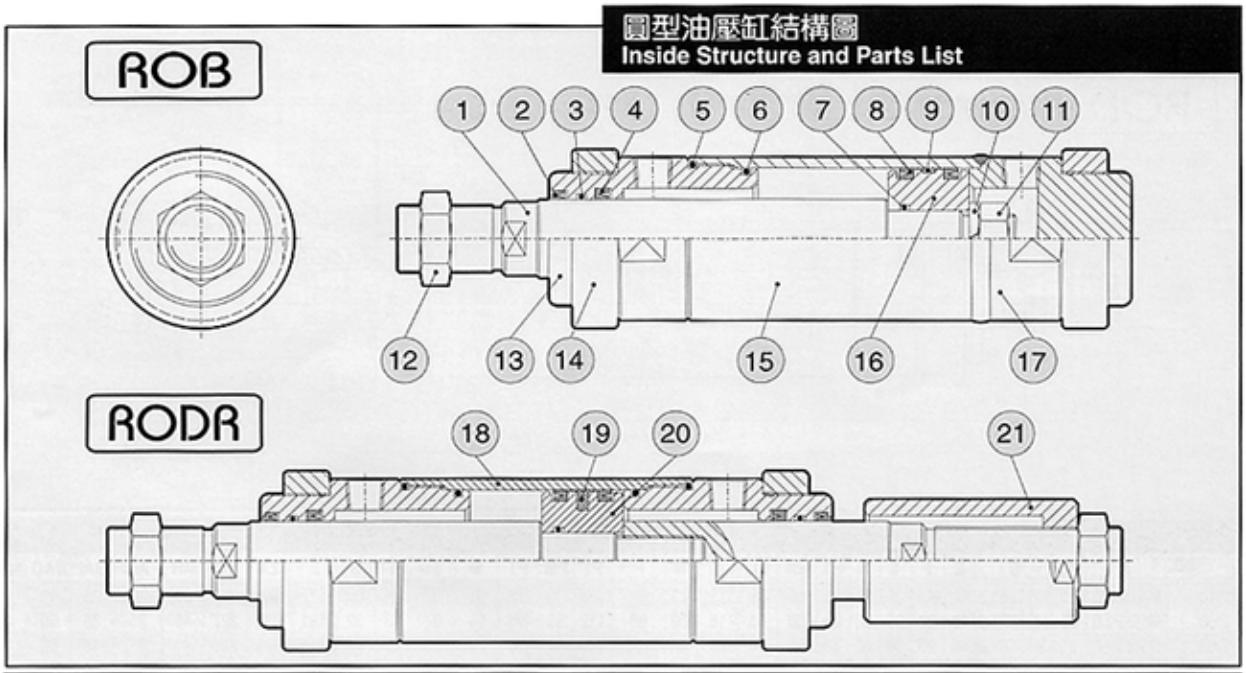
軸心固定型式 ACCESSORY		
YP	Y附PIN	
I	I型接頭	
KG	浮動接頭	
PHS	魚眼接頭	
T	T型接頭	
H	焊套接頭	
A	可調螺帽	

磁簧開關	
記號	數量
無記號	無
Es1	1個
Es2	2個

圓型油壓缸特性資料 Specification

油壓缸內徑 Bore sizes of cylinder(mm)	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125
工作媒介 Power fluid	以濾清之標準液壓油 Filtered oil					
缸管材質 Material of cylinder bareel	碳鋼管 Carbon steel STKM-13C/白鐵管 Stainless tubes SUS 304					
使用壓力範圍 The range of pressure(MPa)	0.3-14MPa(3-140kg/cm²)					
使用溫度範圍 The range of temperature(°C)	-10°~+60°(C°)					
使用速度範圍 The range of speed(mm/sec)	8~300(mm/sec)					
行程於1500~2500mm時,活塞(PM)長度	60	70	70	100	100	120
行程於2501~4000mm時,活塞(PM)長度	90	100	100	150	180	200

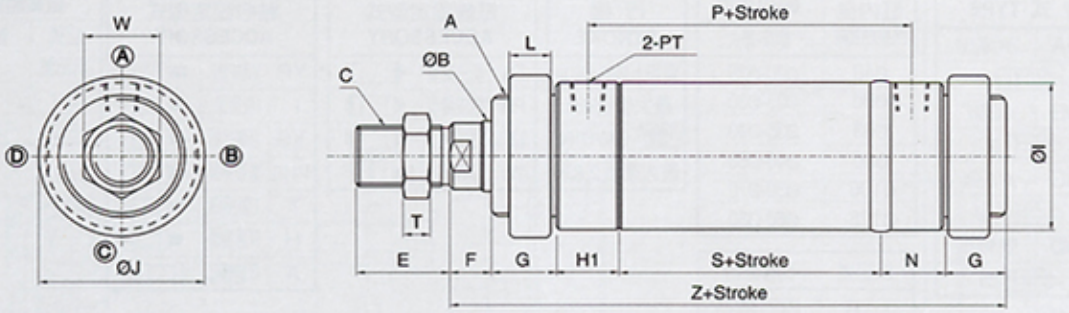
圓型油壓缸結構圖 Inside Structure and Parts List



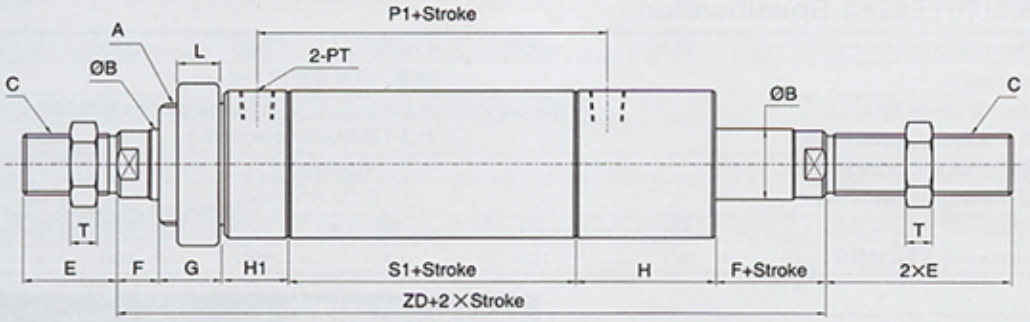
NO	零件名 Part mane		數量 Quantity	NO	零件名 Part mane		數量 Quantity	NO	零件名 Part mane		數量 Quantity
1	活塞桿	Piston rod	1	8	PU活塞環	Piston packing	2	15	缸管本體	Cylinder tube	1
2	刮油環	Dust wiper	1	9	耐磨環	Wearing ring	1	16	活塞本體	Piston	1
3	O型環	Gasket	1	10	彈簧華司	Spring washer	1	17	後蓋	End cover	1
4	軸用油封	Rod packiog	1	11	螺帽	Nut	1	18	缸管本體	Cylinder tube	1
5	O型環	Gasket	1	12	軸心螺帽	Rod nut	1	19	磁石	Magnet	1
6	O型環	Gasket	1	13	前蓋	Rod cover	1	20	活塞本體	Piston	1
7	O型環	Gasket	1	14	前蓋螺帽	Cover nut	1	21	可調螺帽	Adjustble nut	1

中型油壓缸尺寸圖
14Mpa RO Series Dimensional Features

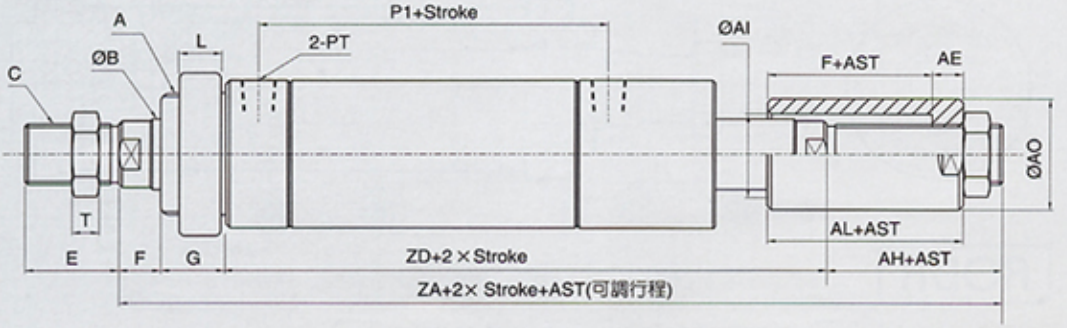
ROB RO+B(後蓋焊接式) TYPE



ROD RO+D(雙軸型) TYPE



ROD ROD+AST(雙軸型附可調帽) TYPE



ROB-ROD TYPE | **A(可調帽) TYPE**

BORE \ SIZE	A	ØB	C	E	F	G	H	H1	ØI	J	L	N	P	P1	PM	PT	S	S1	T	W	Z	ZA	ZD	AH	AE	ØAI	ØAO	AL
Ø40	M40XP2.0	20	M16XP1.5	28	17	25	50	25	50	55	15	25	86	107	30	3/8	61	82	8	23.5	178	246	216	30	20	25	40	37
Ø50	M50XP2.0	25	M22XP1.5	40	20	25	50	25	60	65	15	30	96	112	35	3/8	66	87	13	32	191	267	227	40	25	35	50	45
Ø63	M60XP2.0	35	M30XP1.5	45	20	30	60	30	73	80	20	35	105	125	35	3/8	70	95	13	41	215	295	255	40	25	45	60	45
Ø80	M70XP2.0	40	M30XP1.5	45	20	30	60	30	95	90	20	40	127.5	150	50	1/2	90	120	13	41	240	325	280	45	30	50	70	50
Ø100	M90XP2.0	50	M40XP2.0	55	25	30	60	30	114	110	20	40	147.5	180	60	1/2	110	150	15	55	265	365	320	45	30	60	90	55
Ø125	M120XP2.0	60	M50XP2.0	70	30	30	70	40	140	150	20	50	172.5	210	70	3/4	125	170	15	65	305	420	370	50	35	70	100	65

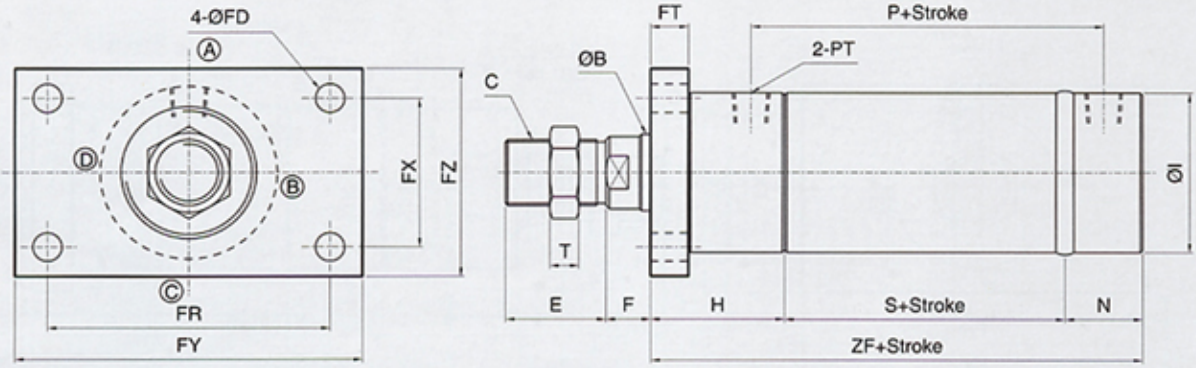
備註：

1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
3.RO系列行程未超過 1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。
5.AST為客戶指定之可調行程。

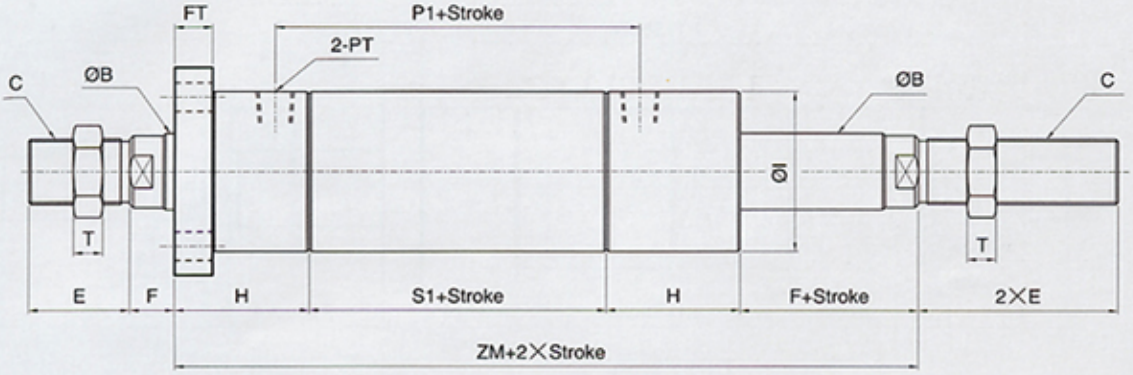
1.The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.
2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
3.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
4.External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.
5.AST:Adjustable stroke by customer assigment.

重型中型油壓缸FA板尺寸
14Mpa RO Series FA Dimensional Features

ROA ROA(後平)+FA TYPE(後蓋焊接式)



ROD ROD+FA TYPE



ROB-ROD TYPE																	FA TYPE					
BORE \ SIZE	ØB	C	E	F	H	ØI	N	P	P1	PM	PT	S	S1	T	ZF	ZM	ØFD	FT	FR	FX	FY	FZ
Ø40	20	M16XP1.5	28	17	50	50	25	86	107	30	3/8	61	82	8	136	199	12	11	93	50	115	72
Ø50	25	M22XP1.5	40	20	50	60	30	96	112	35	3/8	66	87	13	146	207	14	17	110	56	150	85
Ø63	35	M30XP1.5	45	20	60	73	35	105	125	35	3/8	70	95	13	165	235	14	17	126	68	155	95
Ø80	40	M30XP1.5	45	20	60	95	40	127.5	150	50	1/2	95	120	13	195	260	18	20	152	75	190	120
Ø100	50	M40XP2.0	55	25	60	114	40	147.5	180	60	1/2	110	150	15	210	295	20	20	180	100	220	140
Ø125	60	M50XP2.0	70	30	70	140	50	172.5	210	70	3/4	125	170	15	245	340	24	30	222	122	280	170

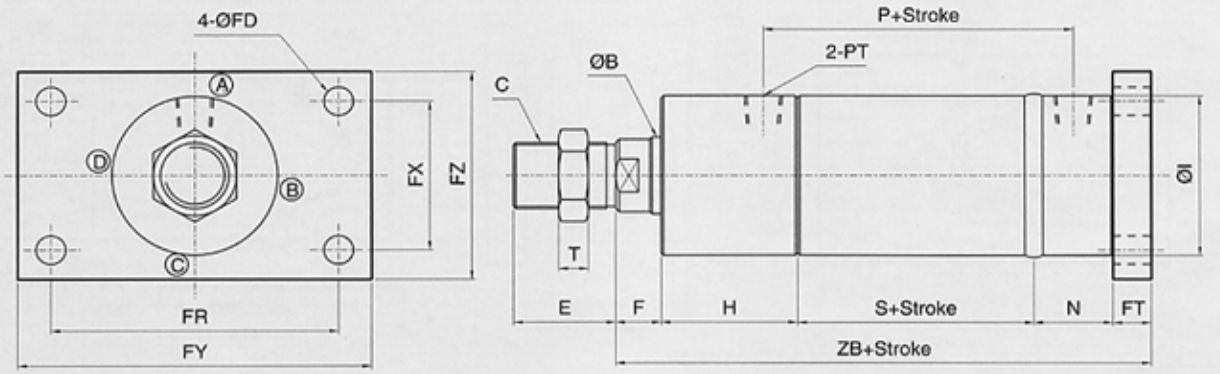
備註：

1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
3.RO系列行程未超過 1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。

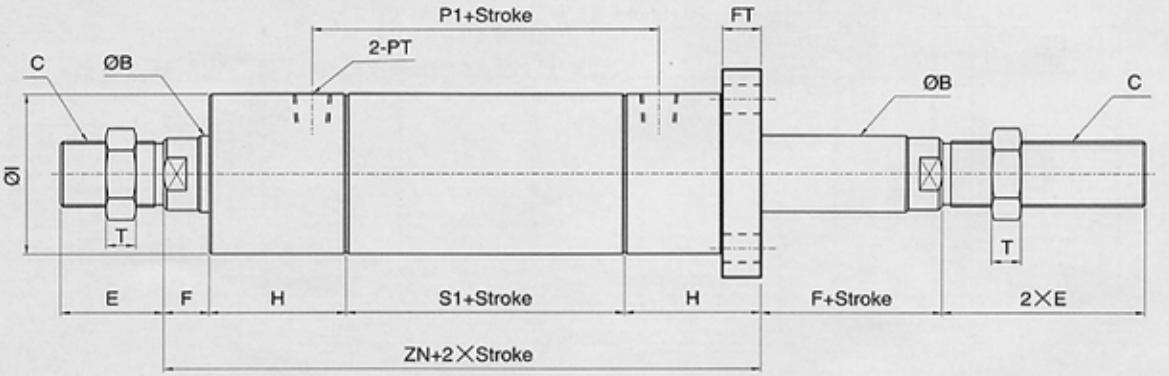
1.The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.
2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
3.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
4.External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸FB板尺寸圖
14Mpa RO Series FB Dimensional Features

ROB ROB+FB TYPE



ROD ROD+FB TYPE



ROB-ROD TYPE																	FB TYPE					
BORE \ SIZE	ØB	C	E	F	H	ØI	N	P	P1	PM	PT	S	S1	T	ZB	ZN	ØFD	FT	FR	FX	FY	FZ
Ø40	20	M16XP1.5	28	17	50	50	25	86	107	30	3/8	61	82	8	164	199	12	11	93	50	115	72
Ø50	25	M22XP1.5	40	20	50	60	30	96	112	35	3/8	66	87	13	183	207	14	17	110	56	150	85
Ø63	35	M30XP1.5	45	20	60	73	35	105	125	35	3/8	70	95	13	202	235	14	17	126	68	155	95
Ø80	40	M30XP1.5	45	20	60	95	40	127.5	150	50	1/2	90	120	13	230	260	18	20	152	75	190	120
Ø100	50	M40XP2.0	55	25	60	114	40	147.5	180	60	1/2	110	150	15	255	295	20	20	180	100	220	140
Ø125	60	M50XP2.0	70	30	70	140	50	172.5	210	70	3/4	125	170	15	305	340	24	30	222	122	280	170

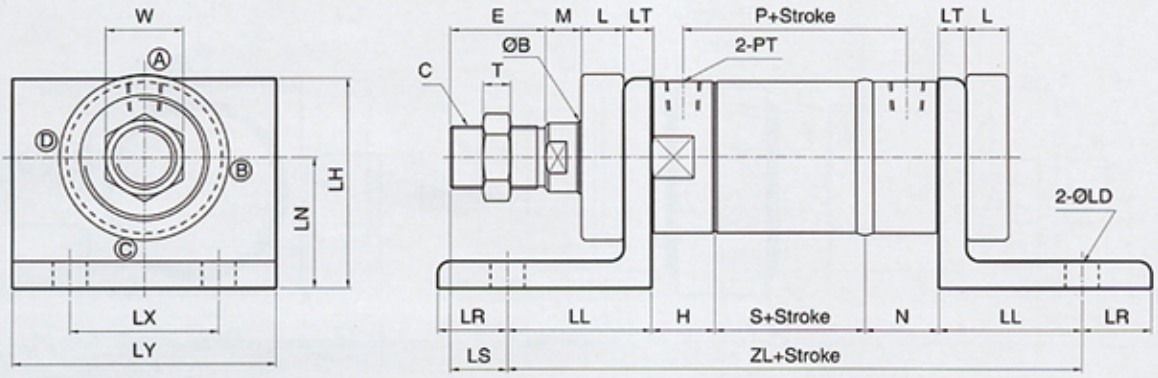
備註：

1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
3.RO系列行程未超過 1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。

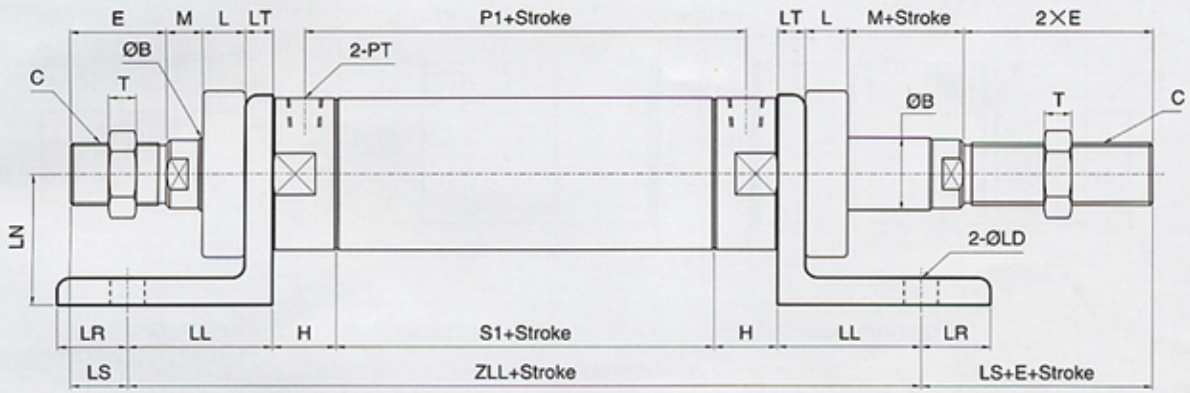
1.The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.
2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
3.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
4.External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸LB架尺寸圖
14Mpa RO Series LB Dimensional Features

ROB ROB+LB (架) TYPE



ROD ROD+LB TYPE



ROB-ROD TYPE																		LB TYPE							
BORE \ SIZE	ØB	C	E	M	H	N	L	LS	P	P1	PM	PT	S	S1	T	ZL	ZLL	ØLD	LH	LN	LL	LR	LT	LX	LY
Ø40	20	M16XP1.5	28	18	25	25	15	25	86	107	30	3/8	61	82	8	201	222	12	75	47	45	30	9	60	88
Ø50	25	M22XP1.5	40	18	25	30	15	30	96	112	35	3/8	66	87	13	231	247	14	88	57	55	33	9	70	100
Ø63	35	M30XP1.5	45	17	30	35	20	29	105	125	35	3/8	70	95	13	271	291	16	101	63	68	33	13	70	124
Ø80	40	M30XP1.5	45	17	30	40	20	29	127.5	150	50	1/2	90	120	13	296	316	18	101	60	68	33	13	80	140
Ø100	50	M40XP2.0	55	20	30	40	20	40	147.5	180	60	1/2	110	150	15	320	350	18	140	80	70	35	15	90	144
Ø125	60	M50XP2.0	70	25	40	50	20	60	172.5	210	70	3/4	125	170	15	375	410	22	190	110	80	40	20	120	160

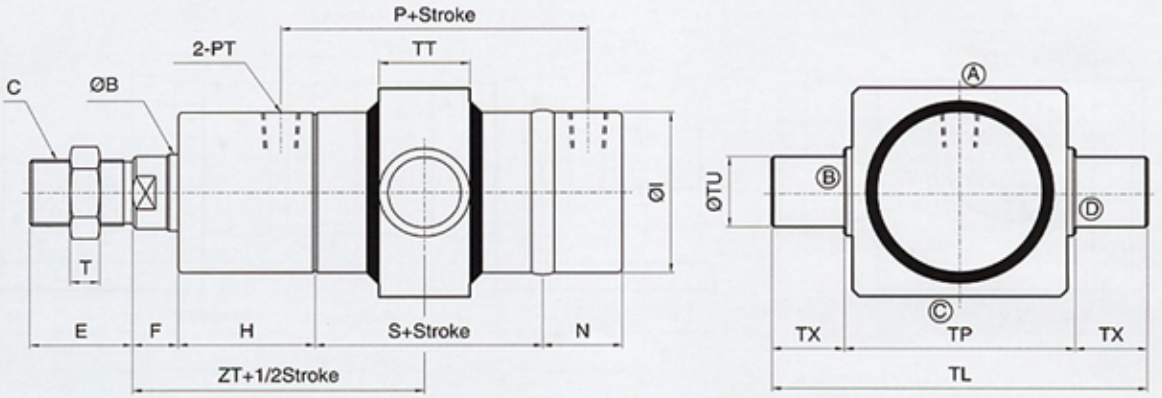
備註：

1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
3.RO系列行程超過1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W指其外徑。

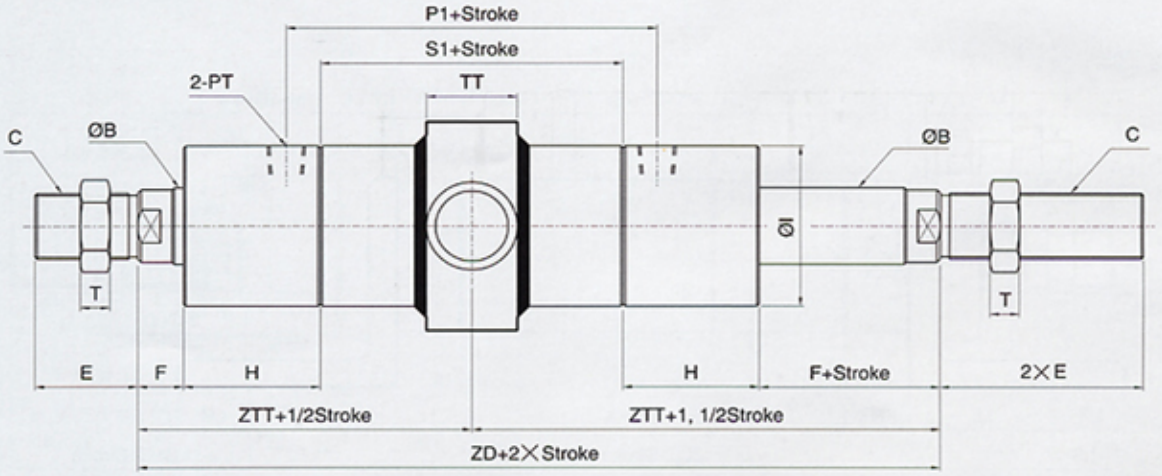
1.The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.
2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
3.When this series of stroke exceeds(includes) 1499mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
4.External diameter is round (W),when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸TC尺寸圖
14Mpa RO Series TC Dimensional Features

ROA ROA+TC TYPE



ROD ROD+TC TYPE



ROA-ROD TYPE																		TC TYPE				
BORE \ SIZE	ØB	C	E	F	H	ØI	N	P	P1	PM	PT	S	S1	T	ZT	ZTT	ZD	ØTU	TL	TP	TT	TX
Ø40	20	M16XP1.5	28	17	50	50	25	86	107	30	3/8	61	82	8	97.5	108	216	20	115	75	28	20
Ø50	25	M22XP1.5	40	20	50	60	30	96	112	35	3/8	66	87	13	103	113.5	227	25	140	90	33	25
Ø63	35	M30XP1.5	45	20	60	73	35	105	125	35	3/8	70	95	13	115	127.5	255	32	166	102	40	32
Ø80	40	M30XP1.5	45	20	60	95	40	127.5	150	50	1/2	90	120	13	125	140	280	32	184	120	43	32
Ø100	50	M40XP2.0	55	25	60	114	40	147.5	180	60	1/2	110	150	15	140	160	320	40	220	140	53	40
Ø125	60	M50XP2.0	70	30	70	140	50	172.5	210	70	3/4	125	170	15	162.5	185	370	50	275	175	58	50

備註：

1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。

2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。

3.RO系列行程超過1499mm時,活塞(PM)長度依據規格表組裝.行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。

4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型.W,J指其外徑。

1.The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.

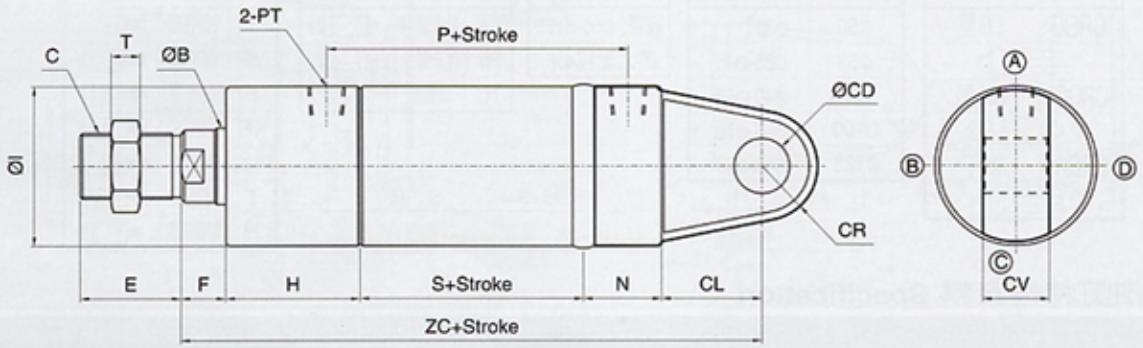
2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.

3.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.

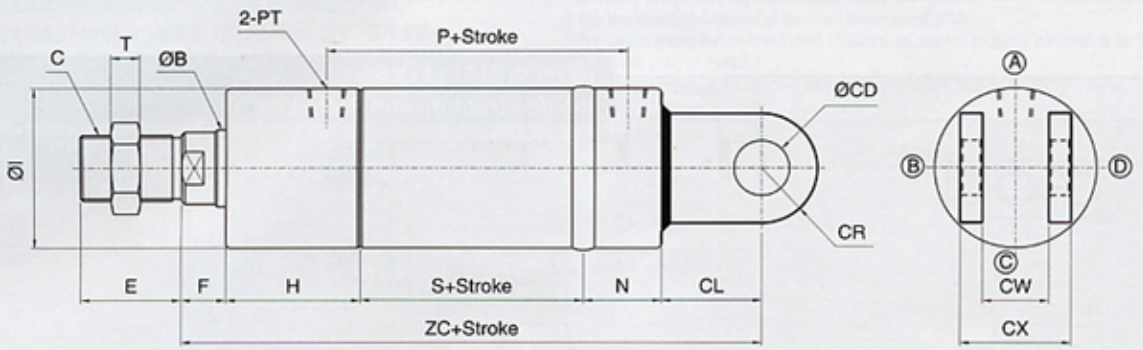
4.External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸CA,CB尺寸
14Mpa RO Series CA,CB Dimensional Features

ROC ROC TYPE



ROCB ROCB TYPE



BORE \ SIZE	RO TYPE ØB	C	E	F	H	ØI	N	P	PM	PT	S	T	ZC	CA,CB TYPE ØCD	CL	CR	CV	CW	CX
Ø40	20	M16XP1.5	28	17	50	50	25	86	30	3/8	61	8	178	16	25	18	25	26	41
Ø50	25	M22XP1.5	40	20	50	60	30	96	35	3/8	66	13	201	20	35	25	25	26	46
Ø63	35	M30XP1.5	45	20	60	73	35	105	35	3/8	70	13	230	25	45	30	30	31	56
Ø80	40	M30XP1.5	45	20	60	95	40	127.5	50	1/2	90	13	260	30	50	30	35	36	66
Ø100	50	M40XP2.0	55	25	60	114	40	147.5	60	1/2	110	15	295	35	60	35	40	41	81
Ø125	60	M50XP2.0	70	30	70	140	50	172.5	70	3/4	125	15	345	50	70	50	55	56	106

備註：

1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。

2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。

3.RO系列行程超過1499mm時,活塞(PM)長度依據規格表組裝.行程如超過1500mm以上時.活塞長度(PM)請參閱特性資料表。

4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時.其外徑為圓型.W,J指其外徑。

1.The length and size of axis were not specifide to constructed must be according to our company design's modify without prior notice.

2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.

3.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.

4.External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.