

方型重油油壓缸採購指南 14Mpa Hydraulic Cylinders How to order

HOBR

63

* Ø35 *

100ST

LB

+ Y

+ PPV

+ Es2

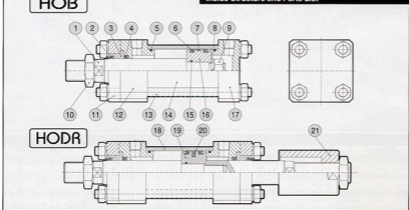
型式 TYPE	缸內徑 Cylinder bore	軸心 ROD Rod diameter	緩衝行程 Cushion stroke	行程 STROKE	缸體固定型式 ACCESSORY	軸心固定型式 ACCESSORY	無記憶 不對稱 PPV 防後滑
HOB 標準型 	Ø40 Ø50	Ø25 Ø30-Ø35	Ø18 Ø25	行程 Ø40-Ø200 最大行程 100	FA 磁芯型 FB 磁芯型 LB 磁芯型 TC 磁芯型 LA 磁芯型 CA 磁芯型 CB 磁芯型 CBP 磁芯型 CAS CA-P-CB	Y Y型 YP Y型 I 磁芯型 KG 浮球型 PHS 浮球型 T 1型 H 浮球型 A 可調型	磁簧開關 記憶 數量 Es1 1個 Es2 2個
HOBR 標準防塵型 	Ø63 Ø80	Ø35-Ø40 Ø40-Ø50	Ø35 Ø40	行程 Ø40-Ø100 最大行程 100			
HOD 磁芯型 	Ø100 Ø125	Ø50-Ø60 Ø60-Ø80	Ø50 Ø60				
HODR 磁芯防塵型 	Ø150 Ø180 Ø200	Ø80-Ø100 Ø100-Ø120 Ø100	Ø80 Ø100				

方型重油油壓缸特性資料 Specification

油壓缸內徑 Bore sizes of cylinder(mm)	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125	Ø150	Ø180	Ø200
工作液介 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/不銹鋼管 Stainless tubes SUS 304								
使用壓力範圍 The range of pressure(MPa)	0.3-14MPa(3-140kg/cm ²)								
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)								
緩衝行程(Cushion stroke) mm	20	25	25	30	35	40	45	50	55
訂製行程超過1501-2500mm以上時, 活塞(PM)長度為	60	70	70	80	100	100	100	140	140
訂製行程超過2501-4000mm以上時, 活塞(PM)長度為	120	140	140	150	180	180	180	200	200

方型重油油壓缸結構圖

Inside Structure and Parts List

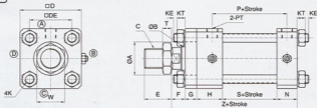


NO	零件名 Part name	數量 Quantity	NO	零件名 Part name	數量 Quantity	NO	零件名 Part name	數量 Quantity
1	活塞桿 Piston rod	1	8	彈簧華司 Spring washer	1	15	O型環 Gasket	1
2	刮油環 Dust wiper	1	9	螺帽 Nut	1	16	活塞本體 Piston	1
3	套筒 Rod bush	1	10	軸心螺帽 Rod nut	1	17	後蓋 End cover	1
4	軸用油封 Rod packing	1	11	銅壓板 End plate	1	18	油缸本體 Cylinder tube	1
5	O型環 Gasket	2	12	前蓋 Rod cover	1	19	活塞本體 Piston	1
6	螺絲活塞環 Piston packing	2	13	固定柱子 Tie bolt	4	20	磁石 Magnet	1
7	刮油環 Wearing ring	1	14	油缸本體 Cylinder tube	1	21	可調螺帽 Adjustable nut	1

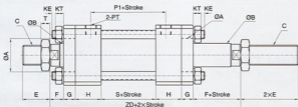
方型重油油缸缸尺寸圖

14Mpa Hydraulic Cylinders Dimensional Features

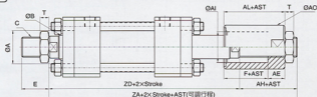
HOB HO+B(標準型) TYPE



HOD HO+D(雙軸型) TYPE



HOD HOD+AST(雙軸型附可調幅) TYPE



HOB-HOD TYPE

A(可調行程) TYPE

BORE	SIZE	GA	OB	C	□D	□DE	E	F	G	H	N	P	P1	PM	PT	K	KE	KT	S	T	W	Z	ZD	ZA	AH	AE	GAO	GAO AL
040	40	25	M22X1.5	65	45	40	20	17	33	28	76	74	30	3/8	M12X1.25	10	13.5	50	13	32	148	150	225	35	20	30	45	40
050	50	30	M26X1.5	80	56	40	20	17	38	30	85	85	35	3/8	M12X1.5	10	13.5	55	13	35	160	205	245	40	25	37	55	45
063	50	35	M30X1.5	90	62	45	20	17	38	30	85	85	35	3/8	M14X1.5	10	14.5	55	13	41	160	205	245	40	25	42	60	45
080	60	40	M30X1.5	110	80	45	20	20	38	35	107	105	50	1/2	M16X1.5	10	17	75	13	41	188	231	276	45	30	47	70	50
0100	80	50	M40X2.0	131	95	55	25	20	41	37	129.5	120	60	1/2	M18X1.5	10	19.5	90	15	55	213	262	307	45	30	57	90	55
0125	90	60	M50X2.0	162	122	70	35	30	57	47	143	140	70	3/4	M22X1.5	10	23.5	100	15	65	269	344	394	50	35	68	100	70
0150	110	80	M70X2.0	195	144	80	35	30	60	50	135	130	60	3/4	1"-8UNC	15	31	90	20	90	265	340	400	60	40	90	120	75
0180	135	100	M90X2.0	235	175	100	35	40	65	55	172	170	70	1	1.1/4"-8UNC	20	39	120	20	110	315	400	465	65	40	110	150	75
0200	135	100	M90X2.0	262	193	100	40	40	65	60	171	170	70	1	1.1/4"-8UNC	20	39	120	20	110	325	410	475	65	40	110	150	80

備註:

1. 軸心距如未註明長度尺寸時, 依本公司規章進行加工。

2. HOD 系列行程未超過 1500mm 時, 活塞桿長宜知照。

訂製行程如超過 1500mm 時, 悉依客戶要求請參閱特性資料表。

3. 本系列行程超過 2000 (含) mm 時, 須加註桿中間固定座。

4. 本系列軸心距規格 M30mm (含) 以上時, 其外徑為圓形。

5. AST 為客戶指定之可調行程。

1. The length and size of the axis were not specified when being enlarged or reduced.

The size of the axis will be constructed according to the specification table.

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

3. Where this series of stroke exceeds (includes) 2000mm, the fixed base of the pull rod must be added in the middle.

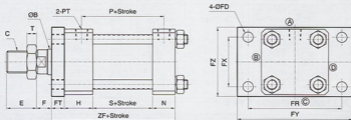
4. The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.

5. AST is the custom made adjustable stroke.

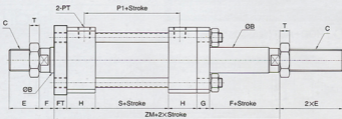
方型重油油壓缸FA板尺寸圖

14Mpa Hydraulic Cylinders FA Dimensional Features

HOB HOB+FA TYPE



HOD HOD+FA TYPE



HOB-HOD TYPE

FA TYPE

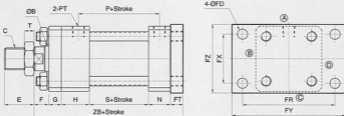
BORE	SIZE	OB	C	E	F	G	H	N	P	P1	PM	PT	S	T	ZF	ZM	OFD	FT	FR	FX	FY	FZ
Ø40	25	M22XP1.5	40	20	17	33	28	76	74	30	3/8	3/8	50	13	128	170	12	17	93	90	115	75
Ø50	30	M26XP1.5	40	20	17	38	30	85	85	35	3/8	5/8	55	13	140	185	14	17	110	96	150	85
Ø63	35	M30XP1.5	45	20	17	38	30	85	85	35	3/8	5/8	55	13	140	185	14	17	126	98	155	95
Ø80	40	M36XP1.5	45	20	20	38	35	107	105	50	1/2	7/8	13	168	211	18	20	152	75	190	129	
Ø100	50	M40XP2.0	55	25	20	41	37	123.5	120	60	1/2	90	15	168	237	20	20	180	100	220	140	
Ø125	60	M50XP2.0	70	35	30	57	47	143	140	70	3/4	100	15	234	309	24	30	222	123	280	170	
Ø150	80	M72XP2.0	80	35	30	60	50	136	130	60	3/4	90	20	230	305	28	30	260	155	310	206	
Ø180	100	M90XP2.0	100	35	40	65	55	172	170	70	1	120	20	260	365	35	40	315	188	375	250	
Ø200	100	M90XP2.0	100	40	40	65	60	175	170	70	1	120	20	285	370	35	40	355	207	425	272	

備註:

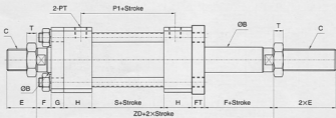
- 軸心加大如未註明長度尺寸時,按本公司規定自行加工。
- HOD 系列行程未超過 1500mm 時,活塞桿長度參閱附表。
- 訂製行程如超過 1500mm 時,活塞桿長度請參閱特性資料表。
- 本系列軸心螺絲規格 M50mm 及以上時,其外徑為圓形。

- The length and size of the axis were not specified when being enlarged or reduced. The size of the axis will be constructed according to the specification table.
- When this series of stroke exceeds (includes) 1500mm, as see the property information for the length of the piston. Within 1500mm see the (PM) length of piston.
- The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.

HOB HOB+FB TYPE



HOD HOD+FB TYPE



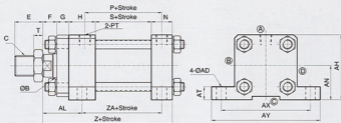
SIZE	HOB-HOD TYPE													FB TYPE							
	ØB	C	E	F	G	H	N	P	P1	PH	PT	S	T	ZB	ZD	ØFD	FT	FR	FX	FY	FZ
Ø40	25	M22XP1.5	40	20	17	33	28	76	74	30	3/8	50	13	165	190	12	17	93	90	115	75
Ø50	30	M26XP1.5	40	20	17	38	30	85	85	35	3/8	55	13	177	205	14	17	110	96	150	85
Ø63	35	M30XP1.5	45	20	17	38	30	85	85	35	3/8	55	13	177	205	14	17	126	68	155	95
Ø80	40	M30XP1.5	45	20	20	38	35	107	105	50	1/2	75	13	208	231	18	20	152	75	190	120
Ø100	50	M40XP2.0	55	25	20	41	37	123.5	120	60	1/2	90	15	233	262	20	20	180	100	230	140
Ø125	60	M50XP2.0	70	35	30	57	47	143	140	70	3/4	100	15	289	344	24	30	222	122	280	170
Ø150	80	M70XP2.0	80	35	30	60	50	135	130	60	3/4	90	20	295	340	28	30	260	155	310	206
Ø180	100	M90XP2.0	100	35	40	65	55	172	170	70	1	120	20	355	400	35	40	315	188	375	250
Ø200	100	M90XP2.0	100	40	40	65	60	175	170	70	1	120	20	365	410	35	40	355	207	425	272

備註：

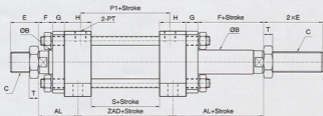
- 1.本系列軸心加大或縮小時如未註明長度尺寸時,按圖本公司規定自行加工。
- 2.HO系列行程未超過 1500mm時,活塞杆的長度知時,訂製行程知超過 1500mm時, 活塞長須參閱特性資料表。
- 3.本系列軸心標稱規格M50mm(含)以上時,其外徑為圓形。

- 1.The length and size of the axis were not specified when being enlarged or reduced. The size of the axis will be constructed according to the specification table.
- 2.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1500mm see the (PH) length of piston.
- 3.The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.

HOB HOB+LA TYPE



HOD HOD+LA TYPE



HOB-HOD TYPE

LA TYPE

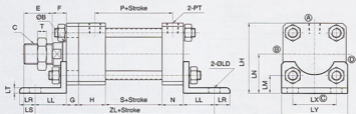
BORE	ROD	OB	C	E	F	G	H	N	AH	AL	AN	P	P1	PH	PT	S	T	ZA	ZAD	Z	OAD	AT	AX	AY
Ø40	25	M22X1.5	40	20	17	33	28	69.5	53.5	37	76	74	30	3/8	50	13	80.5	83	148	12	14	90	112	
Ø50	30	M26X1.5	40	20	17	38	30	85	56	45	85	85	35	3/8	55	13	89	93	160	14	17	115	140	
Ø63	35	M30X1.5	45	20	17	38	30	95	56	50	85	85	35	3/8	55	13	89	93	160	14	19	128	156	
Ø80	40	M36X1.5	45	20	20	38	35	115	59	60	107	105	50	1/2	75	13	111.5	113	188	18	25	152	184	
Ø100	50	M42X2.0	55	25	20	41	37	135.5	65.5	70	123.5	120	60	1/2	90	15	129	131	213	21	27	178	210	
Ø125	60	M50X2.0	70	35	30	57	47	171	93.5	90	143	140	70	3/4	100	15	152	157	269	24	30	230	280	
Ø150	80	M70X2.0	80	35	30	60	50	208	95	113	135	130	90	3/4	90	20	145	150	265	28	35	270	325	
Ø180	100	M90X2.0	100	35	40	65	55	260.5	107.5	143	172	170	70	1	120	20	180	185	315	35	45	330	395	
Ø200	100	M90X2.0	100	40	40	65	60	292	112.5	161	175	170	70	1	120	20	182.5	185	325	35	50	360	430	

備註：

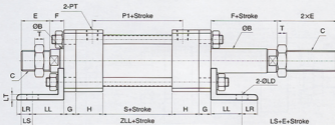
1. 本系列軸心加大或縮小時均須註明長度尺寸, 並請本公司能定自行加工。
2. HOD 系列行程不超過 1500mm 時, 憑著 IPM 長度知列表, 訂製行程知超過 1500mm 時, 憑著長度請參閱特性資料表。
3. 本系列行程若超過 2000mm (含) 以上時, 須加註桿中間固定座。
4. 本系列軸心螺帽規格 M50mm (含) 以上時, 其外徑為圓角。

1. The length and size of the axis were not specified when being enlarged or reduced. The size of the axis will be constructed according to the specification table.
2. When this series of stroke exceeds/including 1500mm, as see the property information for the length of the piston. With 1500mm see the (PH) length of piston.
3. When this series of stroke exceeds/including 2000mm, the fixed base of the pull rod must be added in the middle.
4. The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.

HOB HOB+LB TYPE



HOD HOD+LB TYPE



HOB-HOD TYPE

LB TYPE

Bore	SIZE	HOB-HOD TYPE														LB TYPE									
		OB	C	E	F	G	H	N	LN	LS	P	P1	PT	S	T	ZL	ZLL	OLD	LL	LM	LR	LT	LX	LY	
O40	25	M22X1.5	40	20	17	33	28	78.5	46	22.5	76	74	30	3/8	50	13	203	225	11	37.5	23.5	12.5	6	45	68
O50	30	M26X1.5	40	20	17	38	30	94	54	18	85	85	35	3/8	55	13	224	249	14	42	26	22	8	56	85
O63	35	M30X1.5	45	20	17	38	30	102	57	21	85	85	35	3/8	55	13	228	253	16	44	26	22	8	62	95
O80	40	M30X1.5	45	20	20	38	35	131	76	2	107	105	50	1/2	75	13	294	317	18	63	36	27	13	80	120
O100	50	M40X2.0	55	25	20	41	37	158.5	93	14	123.5	120	60	1/2	90	15	320	344	20	66	45.5	24	15	100	140
O125	60	M50X2.0	70	35	30	57	47	195	114	25	143	140	70	3/4	100	15	394	434	24	80	53	30	15	122	169
O150	80	M70X2.0	80	35	30	60	50	220	125	35	135	130	60	3/4	90	20	390	430	28	80	53	30	20	144	200
O180	100	M90X2.0	100	35	40	65	55	267.5	150	45	172	170	70	1	120	20	460	510	35	90	62.5	40	20	175	240
O200	100	M90X2.0	100	40	40	65	60	301	170	45	175	170	70	1	120	20	475	520	35	95	73.5	40	25	193	265

備註:

1. 本系列軸心加大縮小時如未註明長度尺寸時, 按照本公司規定自行訂定。
2. HOD 系列行程未超過 1500mm 時, 活塞(PM)長度如附表, 如訂行程如超過 1500mm 時, 活塞長度請參閱附件資料表。
3. 本系列行程若超過 2000mm (含) 時, 須加訂行程中間固定座。
4. 本系列軸心螺帽規格 M50mm (含) 以上時, 其外徑為圓形。

1. The length and size of the axis were not specified when being enlarged or reduced.

The size of the axis will be constructed according to the specification table.

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

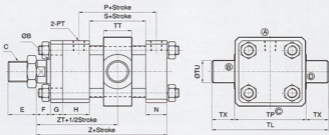
3. When this series of stroke exceeds(includes) 2000mm, the fixed base of the pull rod must be added in the middle.

4. The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.

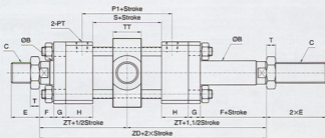
方型重油油壓缸TC尺寸圖

14Mpa Hydraulic Cylinders TC Dimensional Features

HOB HOB+TC TYPE



HOD HOD+TC TYPE



HOB-HOD TYPE

TC TYPE

SIZE	ØB	C	E	F	G	H	N	P	P1	P1	PT	S	T	Z	ZD	ZT	ØTU	TL	TP	TT	TX
Ø40	25	M22X1.5	40	20	17	33	28	76	74	30	3/8	50	13	148	190	95	20	115	75	28	20
Ø50	30	M26X1.5	40	20	17	38	30	85	85	35	3/8	55	13	160	205	102.5	25	140	90	33	25
Ø63	35	M30X1.5	45	20	17	38	30	85	85	35	3/8	55	13	160	205	102.5	32	166	102	40	32
Ø80	40	M36X1.5	45	20	20	38	35	107	105	50	1/2	75	13	188	231	115.5	32	184	120	43	32
Ø100	50	M42X2.0	55	25	20	41	37	123.5	120	60	1/2	90	15	213	262	131	40	220	140	53	40
Ø125	60	M50X2.0	70	35	30	57	47	143	140	70	3/4	100	15	269	344	172	50	275	175	58	50
Ø150	80	M70X2.0	80	35	30	60	50	135	130	80	3/4	90	20	265	340	170	60	326	206	73	60
Ø160	100	M90X2.0	100	35	40	65	55	172	170	70	1	120	20	315	400	200	80	403	243	98	80
Ø200	100	M90X2.0	100	40	40	65	60	175	170	70	1	120	20	325	410	205	90	452	272	108	90

備註:

1. 本系列軸心加大或縮小時均來往註明長度尺寸時, 並請本公司精確自行加工。
2. HO 系列行程未超過 1500mm 時, 活塞(PH)長度知照, 訂製行程如超過 1500mm 時, 活塞長度請參閱特性資料表。
3. 本系列軸心螺帽規格 M50mm (含) 以上時, 其外徑為圓形。

1. The length and size of the axis were not specify when being enlarged or reduced. The size of the axis will be constructed according to the specification tablet.
2. When this series of stroke exceeds (includes) 1500mm, as see the property information for the length of the piston. Within 1500mm see the (PH) length of piston.
3. The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.

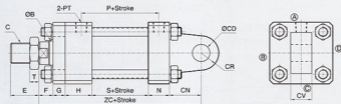
Series

HO-CA, CB

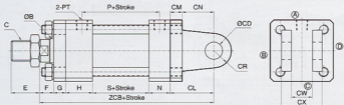
方型重油油壓缸CA, CB尺寸圖

14Mpa Hydraulic Cylinders CA, CB Dimensional Features

HOB HOB+CA TYPE



HOB HOB+CB TYPE



HOB TYPE

CA-CB TYPE

SIZE	OB	C	E	F	G	H	N	P	PM	PT	S	T	ZC	ZCB	ØCD	CL	CM	CN	CR	CW	CX	CR
D40	25	M22XP1.5	40	20	17	33	28	76	30	3/8	50	13	173	190	16	42	17	25	15	22	23	47
D50	30	M26XP1.5	40	20	17	38	30	85	35	3/8	55	13	195	212	20	52	17	35	20	22	23	47
D63	35	M30XP1.5	45	20	17	38	30	85	35	3/8	55	13	205	222	25	62	17	45	25	30	31	59
D80	40	M36XP1.5	45	20	20	38	35	107	50	1/2	75	13	238	258	30	70	20	50	30	35	36	76
Ø100	50	M42XP2.0	55	25	20	41	37	123.5	60	1/2	90	15	273	293	35	80	20	60	35	40	41	81
Ø125	60	M50XP2.0	70	35	30	57	47	143	70	3/4	100	15	339	369	50	100	30	70	50	55	56	106
Ø150	80	M70XP2.0	80	35	30	60	50	155	80	3/4	90	20	345	375	60	110	30	80	60	60	61	121
Ø180	100	M90XP2.0	100	35	40	65	55	172	70	1	120	20	415	455	80	140	40	100	80	80	81	161
Ø200	100	M90XP2.0	100	40	40	65	60	175	70	1	120	20	435	475	90	150	40	110	90	90	91	171

備註:

1. 本系列軸心加大或縮小時請來函註明長度尺寸時, 依原本公司規定自行加工。
2. HOB 系列行程未超過 1500mm 時, 活塞(PM)長度如附表, 訂製行程如超過 1500mm 時, 還應長查詢參閱特性資料表。
3. 本系列行程若超過 2000mm(含)時, 須加訂作中環固定套。
4. 本系列軸心縮短規格 M50mm(含)以上時, 其外型為圓形。

1. The length and size of the axis were not specified when being enlarged or reduced.

2. The size of the axis will be constructed according to the specification table.

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

4. When this series of stroke exceeds(includes) 2000mm, the fixed base of the pull rod must be added in the middle.

5. The screw nut specification of this series of axis over M50 is round and W stands for its external diameter.