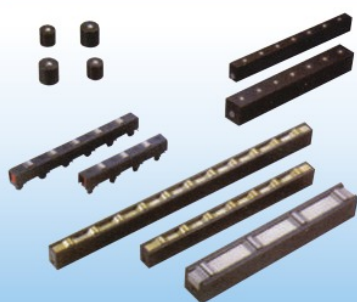




舉模器 / Die Lifter Series



計有DL,DU,DR,DB四種，詳見第16~22頁。
DL型舉模器(油壓式)
DB型舉模器(滾珠式)
DR/DU型舉模器(彈簧式)

For details, refer to pages 16~22.
DL Die Lifter
DB Die Lifter
DR, DU Die Lifter

氣動泵組合 / Power Unit



以氣動方式作動，出力為油壓，詳見8~13頁。
氣動泵組合(1迴路 / 2迴路 / 3迴路 / 4迴路)

For details, refer to pages 8~13.
Power Unit Selection of System Components
(1 Circuit / 2 Circuits / 3 Circuits / 4 Circuits)

操作箱 / Control Box



► 氣動泵組合選用

Power Unit - Selection of System Components



FP 6308U-1-C



FP 6308U-2-2C



FP 6308U-3-2CD

大陸專利號：ZL 01 2 66203.8
China Patent No: ZL 01 2 66203.8



FP 6308U-4-3CD

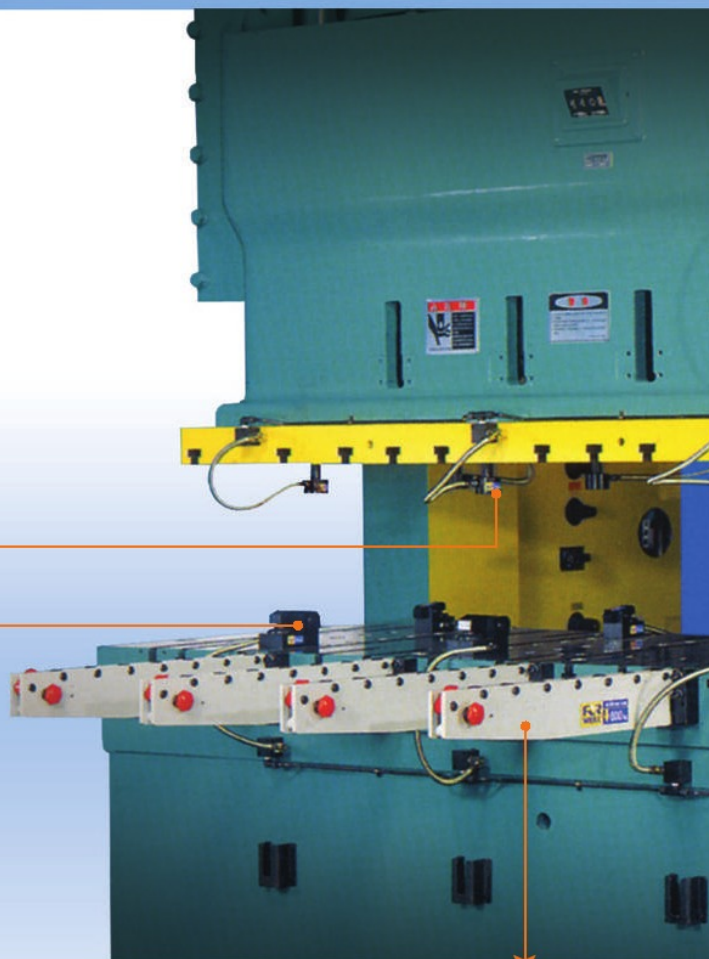
FP63	空氣壓力5kg/cm ² 時出力 At 5kg/cm ² Air Pressure	增壓比 Pressure Ratio
06	420 (kg/cm ²)	1 : 84
07	300 (kg/cm ²)	1 : 60
08	250 (kg/cm ²)	1 : 50
09	200 (kg/cm ²)	1 : 40
10	150 (kg/cm ²)	1 : 30
12	100 (kg/cm ²)	1 : 20
14	80 (kg/cm ²)	1 : 16
16	50 (kg/cm ²)	1 : 10
20	40 (kg/cm ²)	1 : 8
24	26 (kg/cm ²)	1 : 5



FP 1014U-4-3CD

► 快速換模系統元件組成

QDCS Unit Introduction



夾模器 / Die Clamp Series



可分TX, TY兩型詳述於第14,15頁。

TX型夾模器(直拉式)

TY型夾模器(壓板式)

For details, refer to pages 14 and 15.

TX Die Clamp

TY Die Clamp

移模臂 / Die Arm Series



共有RC, RD, RE, RF四種型式，詳述於第23~27頁。

RC型移模臂

RD型移模臂

RE/RF型移模臂

For details, refer to pages 23~27.

RC/RD/RE/RF Die Arm

► 組件選用基準

Selection of System Components

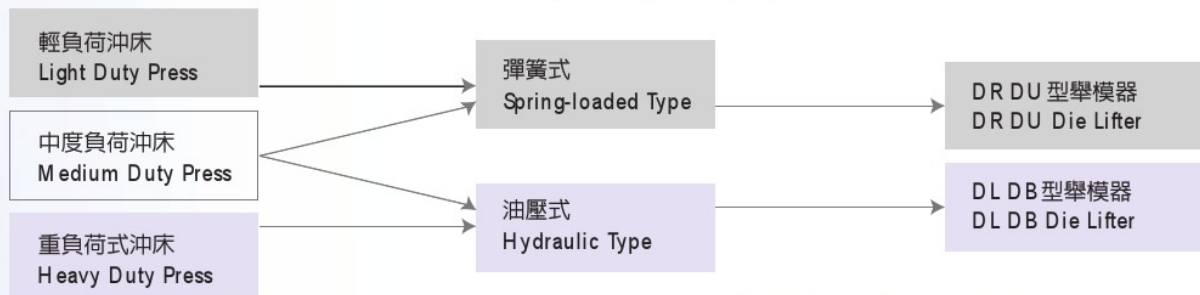
3 選擇舉模器 Selection of Die Lifters (性能規格詳載於第16~22頁) (For details, refer to pages 16~22)

彈簧式或油壓式之選定

依據沖床噸位選擇DL型(油壓式)或DR型(彈簧式)此外並需將
模具重量與所需舉模器之長度一併考量

Select Spring-loaded or Hydraulic Die Lifter

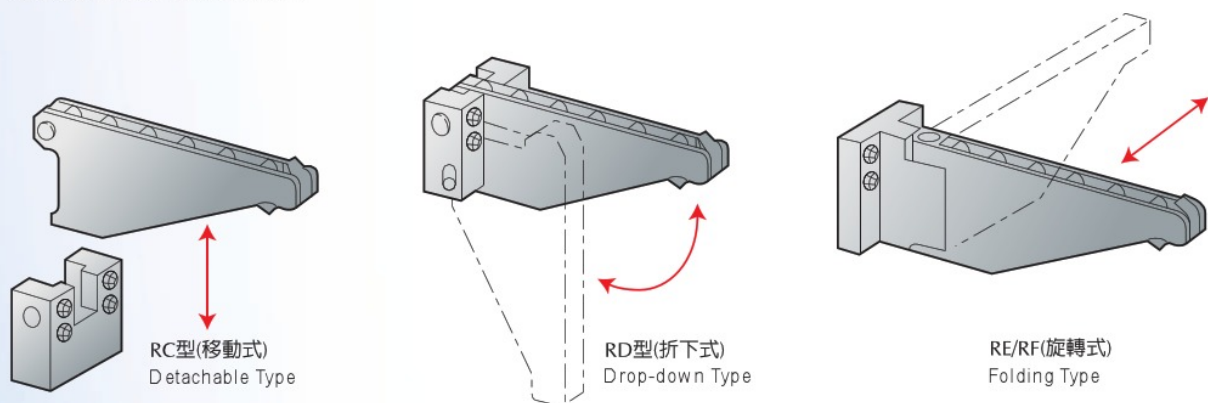
Select spring-loaded (DR DU) or hydraulic (DL) according to the press tonnage, die weight, and the die positioning accuracy required.



選用參考基準	Selection Criteria
舉模器長度	Die Lifter
舉模能力	Lift Capacity
最大承載重量	Maximum Die Lifter Load Weight
U槽尺寸	U-slot Size
配管配件	Accessories

4 選擇移模臂 Selection of Die Arm (性能規格詳載於第23~27頁) (For details, refer to pages 23~27)

基本型式之選定 Basic Selections



選用基準	Selection Criteria
模具尺寸	Die Dimensions
移模臂最大承載重量	Maximum Die Arm Load Weight
型式	Type

► 氣動泵組合選用

Power Unit - Selection of System Components

形式表示法 / Explanation of Model Numbers

FP 6308U - 1 - C

FP 63 08U

增壓桿面積
Surface area of pressure increased rod

活塞面積
Surface area of piston

Ø 63
Ø 100

(請參考第12~13頁。)

(For details, refer to pages 12~13.)

C: 夾模器 / Die Clamp

D: 舉模器 / Die Lifter

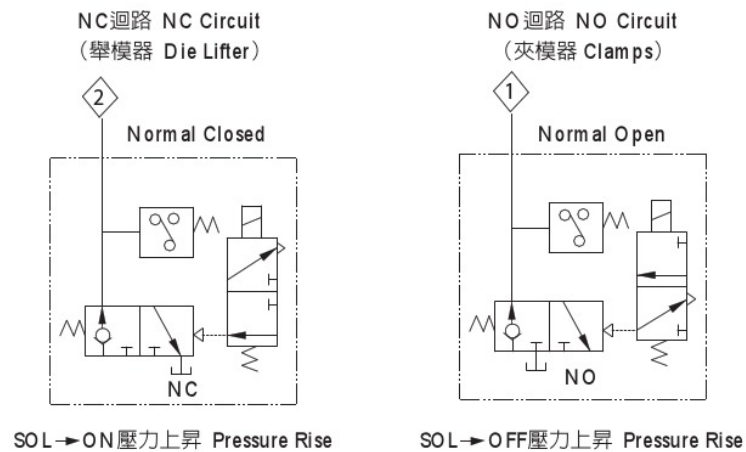
迴路數 No. of Circuits	迴路型式 Circuit Code	迴路分配使用情形	System Configuration
1	C	迴路使用於夾持上模	One circuit for clamping the upper die
		迴路使用於夾持下模	One circuit for clamping the lower die
		迴路使用於同時夾持上下模	One circuit for simultaneously clamping the upper and lower dies
2	D	迴路使用於舉模器	One circuit for the lifter
		一個迴路使用於夾持上模，且另一個迴路使用於下模	One circuit for upper die One circuit for lower die
		一個迴路使用於同時夾持上下模，且另一個迴路使用於舉模器	One circuit for simultaneously clamping the upper and lower dies One circuit for the lifter
3	2CD	一個迴路使用於夾持上模，另一個迴路使用於下模，且第三個迴路使用於舉模器	Two circuits for clamping the upper and lower dies One circuit for the lifter
4	3CD	二個迴路使用於夾持上模交叉方式，另一個迴路使用於夾持下模，且第四個迴路使用於舉模器	Two circuits for clamping the upper die One circuit for clamping the lower die One circuit for the lifter

電壓 Voltage: DC 24V, AC-110V, AC-220V

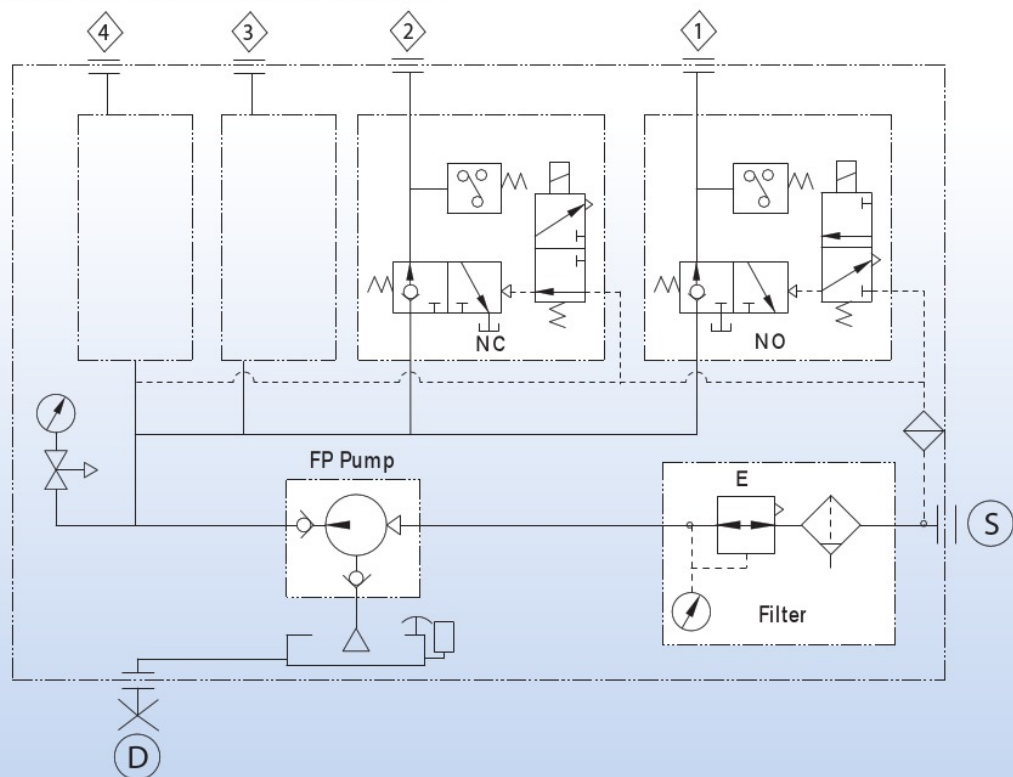
► 氣動泵組合選用

Power Unit - Selection of System Components

油壓系統迴路圖 / Hydraulic Schematics (Typical)



迴路圖例 (Combined Circuit Example)

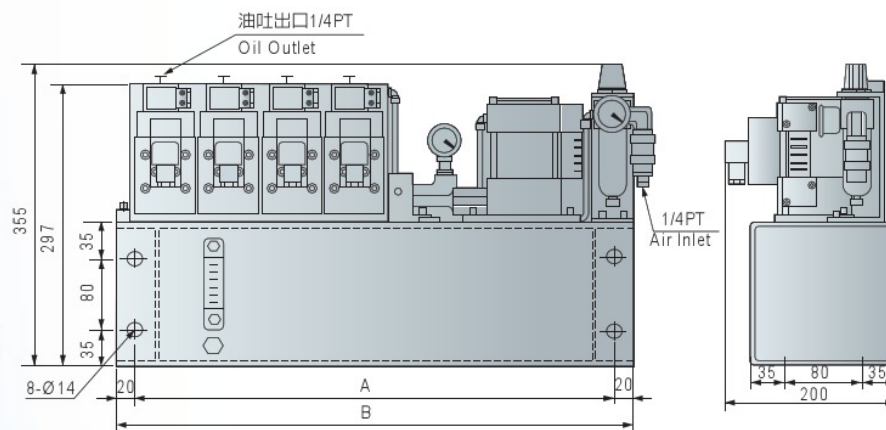


- 註：訂貨時請指定電磁閥 (SOL) 使用電壓 (DC 24V, AC110V, AC220V)
When ordering, please confirm the usage voltage of the magnetical valve.

► 氣動泵組合 外型尺寸

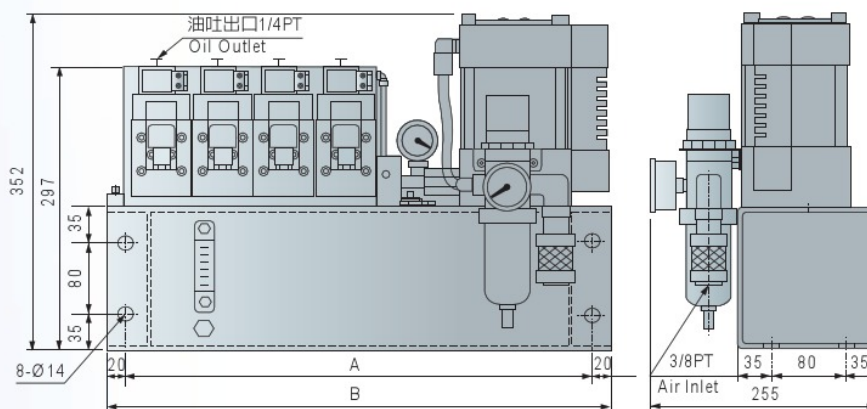
Hydraulic Power Units - Specifications

型號 / Model : FP63 Pump



型號 Model	迴路數 Total Circuits	A	B	油箱全容量 (ℓ) Reservoir Capacity	可用容量 (ℓ) Available Lubricant	重量Weight (kg)	使用油 Lubricant
FP63 □□U	1	353	393	6	4.7	23	一般液壓作動油 ISO VG32- VG68 Standard hydraulic oil
FP63 □□U	2	353	393	6	4.7	27	
FP63 □□U	3	423	463	7.5	5.9	35	
FP63 □□U	4	493	533	9	7.1	43	

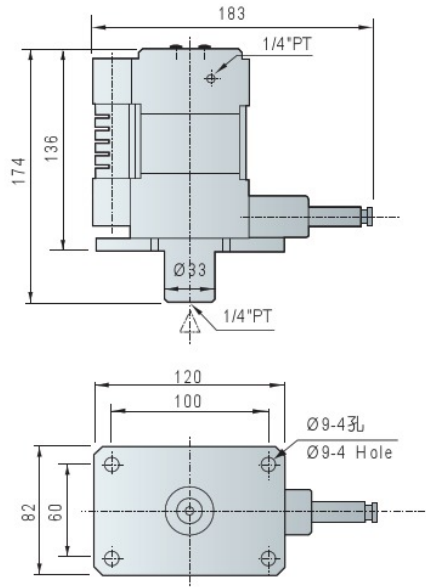
型號 / Model : FP100 Pump



型號 Model	迴路數 Total Circuits	A	B	油箱全容量 (ℓ) Reservoir Capacity	可用容量 (ℓ) Available Lubricant	重量Weight (kg)	使用油 Lubricant
FP10 □□U	1	353	393	6	3.8	30	一般液壓作動油 ISO VG32- VG68 Standard hydraulic oil
FP10 □□U	2	353	393	6	3.8	34	
FP10 □□U	3	423	463	7.5	4.8	42	
FP10 □□U	4	493	533	9	5.8	50	

► 氣動泵組合選用

Power Unit - Selection of System Components



*L= 公升

FP63規格特性 Specifications

驅動流體 Drive Fluid	空氣 Air
空氣使用壓力範圍 Air Pressure	2~6 kg / cm ² (2~6 bar)
使用溫度範圍 Operating Temperature	-5°~60°C
使用油 Lubricant	一般液壓作動油 (ISO VG32-VG68) Standard hydraulic oil
單一重量 Weight	4 kg

● 本表為壓力：流量特性表提供參考

Pressure : Flow characteristics tables provided below for your reference.

(一) 空氣消耗量為MAX=0.35Nm³ / min.

Air consumption MAX=0.35Nm³ / min.

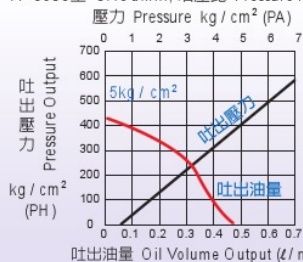
(二) 須大流量請指示說明。

Please refer to instructions for large flow.

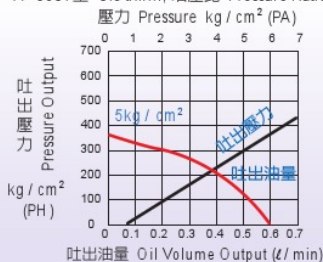
(三) 為品質不斷改良，使用前煩請電話查詢確認。

Specifications are subject to change, please phone to confirm values.

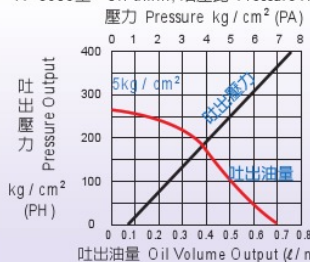
FP-6306型 0.45 l/min, 增壓比 Pressure Ratio 1:84



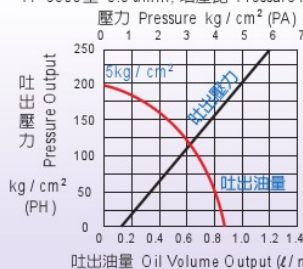
FP-6307型 0.6 l/min, 增壓比 Pressure Ratio 1:60



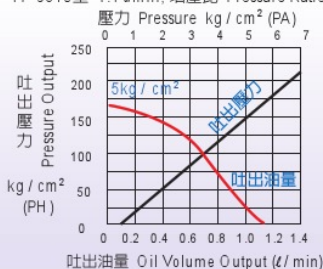
FP-6308型 0.7 l/min, 增壓比 Pressure Ratio 1:50



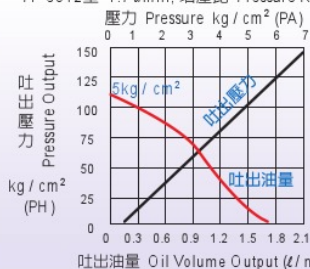
FP-6309型 0.9 l/min, 增壓比 Pressure Ratio 1:40



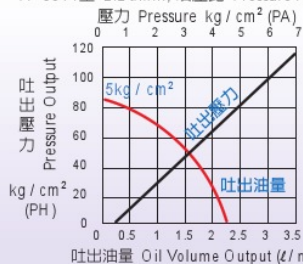
FP-6310型 1.1 l/min, 增壓比 Pressure Ratio 1:30



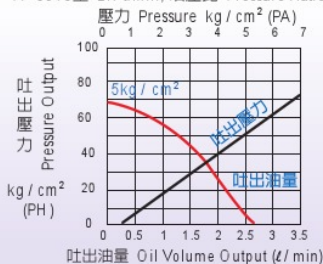
FP-6312型 1.7 l/min, 增壓比 Pressure Ratio 1:20



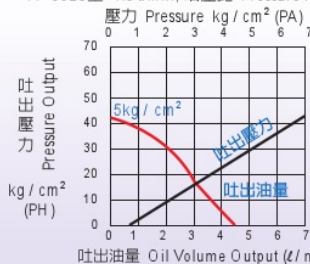
FP-6314型 2.2 l/min, 增壓比 Pressure Ratio 1:16



FP-6316型 2.7 l/min, 增壓比 Pressure Ratio 1:10

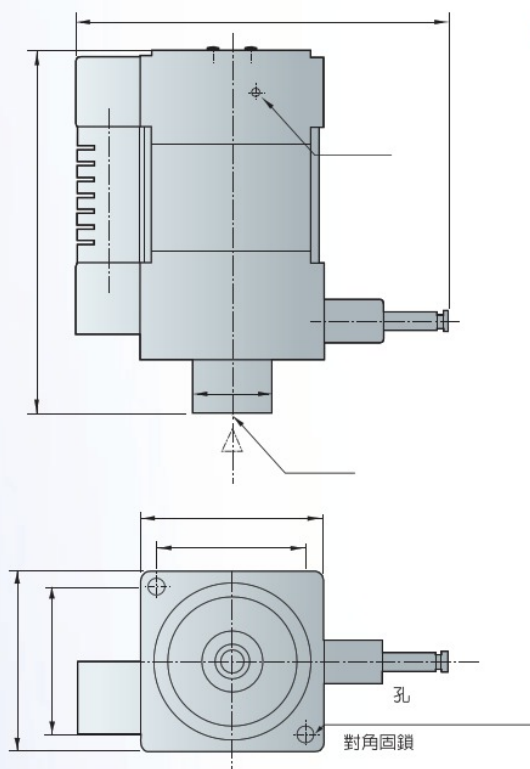


FP-6320型 4.5 l/min, 增壓比 Pressure Ratio 1:8



► 氣動泵組合選用

Power Unit - Selection of System Components



規格特性

驅動流體	空氣
空氣使用壓力範圍	
使用溫度範圍	。。
使用油	一般液壓作動油
單一重量	

● 本表為壓力：流量特性表提供參考

Pressure : Flow characteristics tables provided below for your reference.

(一) 空氣消耗量為MAX=0.8Nm³ / min.

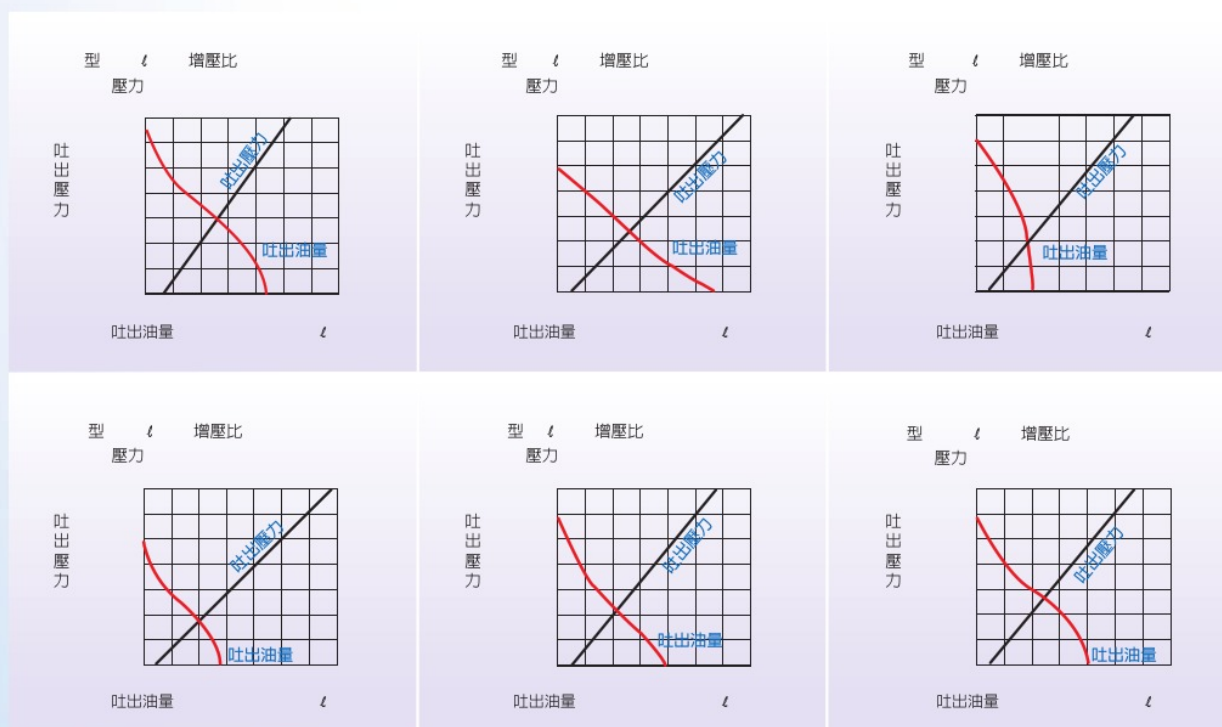
Air consumption MAX=0.8Nm³ / min.

(二) 須大流量請指示說明。

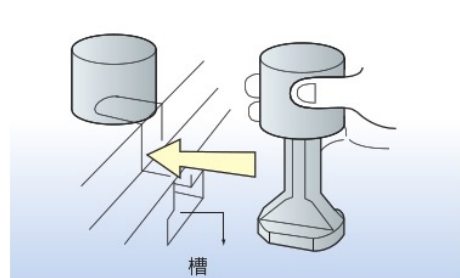
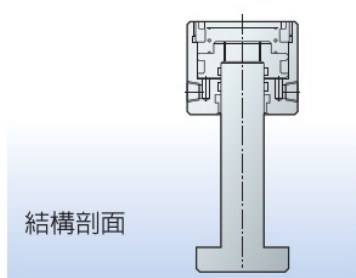
Please refer to instructions for large flow.

(三) 為品質不斷改良，使用前煩請電話查詢確認。

Specifications are subject to change, please phone to confirm values.



此型夾模器有節省空間的好處，但模沿須有型溝供其夾持，其底部被製成適合在台盤型槽滑動。



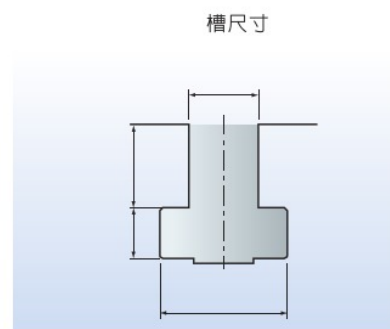
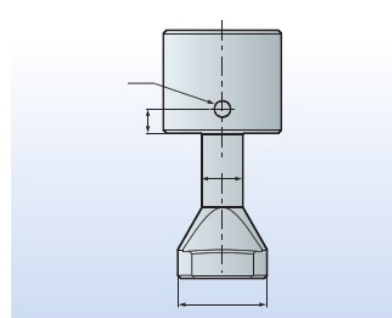
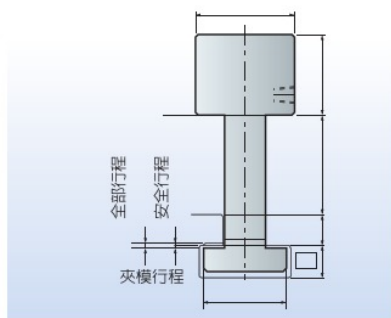
模沿 型溝

[illegible]

●註：安全行程為全部行程與夾模行程之差值，為特別的安全預留量。

大陸專利號：

外型尺寸

[illegible]

- 註：模沿厚度 及 槽 尺寸如為既有（特殊）尺寸，請於訂購時確認之。

► 快速換模系統—TY型夾模器

FORWELL QDCS - TY Die Clamp

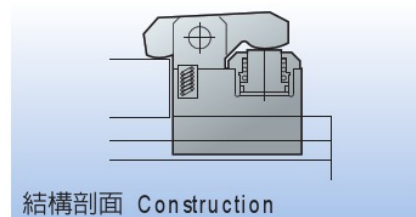
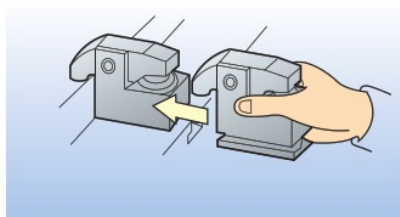
此型夾模器以槓桿原理作用，夾持模沿，並不需"U"型溝，因此有更寬廣的適用範圍。

Because this lever-type clamp does not require a U-slot on the die shoe it may be used in a wide range of applications. The base of the clamp is machined to fit the T-slot on the bolster. The flange-mount model clamp may be bolted onto the bolster. The automatic slide model makes remote control possible.



TY型夾模器

大陸專利號：ZL 01 2 67208.4
China Patent No: ZL 01 2 67208.4

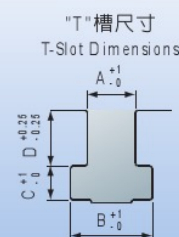
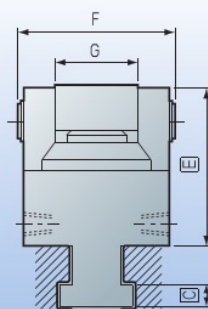
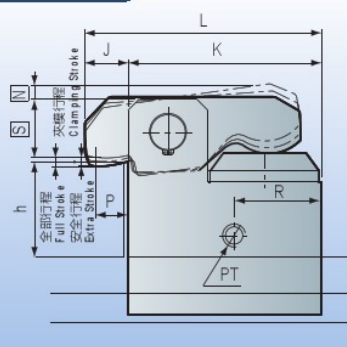


特性規格 Specifications

型號 Model	Unit	TY-1	TY-2	TY-4	TY-6	TY-10	TY-16	TY-25
夾持力(於油壓250kg/cm ²) Clamping Force (at 250kgf/cm ²)	tons	1	2	4	6.3	10	16	25
全部行程(X) Full Stroke	mm	6	7	7	8	8	7	8
夾模行程(Y) Clamping Stroke	mm	3	2	3	3	3	3	3
安全行程(Z) Extra Stroke	mm	3	5	4	5	5	4	5
夾模器缸體容量(全行程) Cylinder Capacity at Full Stroke	cc.	2	6.5	13.2	22.3	37	61	93

- 註：安全行程為全部行程與夾模行程之差值，為特別的安全預留量。
Extra stroke is the difference between full stroke and clamping stroke with extra space allowed for safe operation.

外型尺寸 Dimensions



型號 Model	MIN.[E]	F	G	J	K	L	MAX.[N]	P	R	MIN.[S]	PT	MIN.[C]	A	B	C	D	選用泵浦 Power Unit
TY-1	49.5	46	20	15	58	73	10	10	34	16.5	1/8	7	22	37	16	24	FP6308U-□-□
TY-2	59	63	28	22	85	107	10	12.5	48	27	1/8	9.5	22	37	16	24	
TY-4	85	87	40	25	120	145	10	16	58	33	1/4	12	22	37	16	24	
TY-6	94	97	44	29.5	133	162.5	11	20	68	40	1/4	14	28	48	20	28	FP1014U-□-□
TY-10	105	110	50	28	165	193	11	20	82	53	1/4	16.5	28	48	20	28	
TY-16	120	130	60	30	200	230	12	20	96	67	1/4	19	28	48	23	28	
TY-25	133	150	73	30	240	270	13	20	110	81	1/4	22	36	56	25	28	

- 模厚建議：25、30、35、40、45、50、55、60mm

- 註：模沿厚度(h)及T槽(A.B.C.D.)尺寸如為既有(特殊)尺寸，請於訂購時確認之。

Before purchase, please verify mold edge thickness (h) and T-Slot (A.B.C.D.) has standard or special dimensions.

► 快速換模系統—DR型彈簧式舉模器

FORWELL QDCS - DR Die Lifter

DR型舉模器可藉由填隙片的增減，很容易的適用不同尺寸的"T"型槽或"U"型槽。其基本長度有200mm與300mm兩種尺寸，經過搭配使用，可產生每100mm的總度變化。

These spring-loaded die lifters easily fit to different sized T or U-slots on the bolster by adding spacers to the side walls of the die lifters.

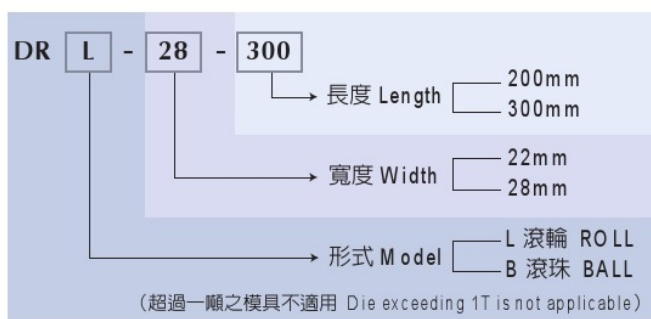
Die lifters are available in standard lengths of 200mm and 300mm, any die lifters length can be constructed by combining these standard lengths in increments of 100mm.



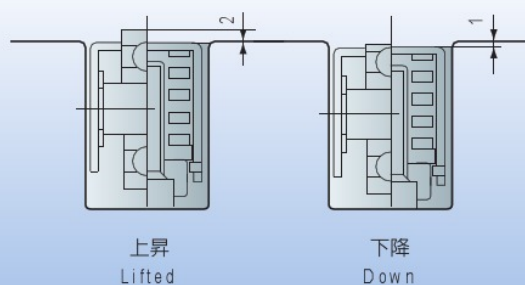
DR型彈簧式舉模器

大陸專利號：ZL 01 2 64424.2

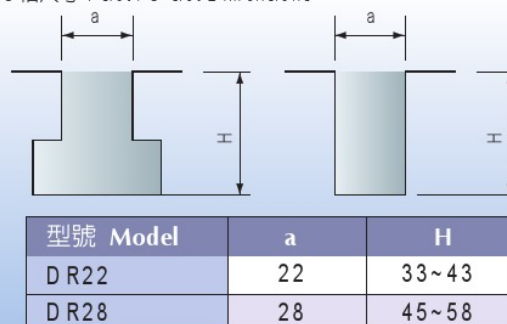
China Patent No: ZL 01 2 64424.2



DR型結構與動作 Construction and Action



T/U 槽尺寸 T-slot / U-slot Dimensions



DR型基本尺寸特性 Specifications

基本型式 Specifications	寬度 Width (mm)	長度 Length (mm)	彈簧數量 Springs (pcs)	單一彈簧舉模力 Lift Force (kgf)
DRL-22-200/ DRB-22-200	22	200	4	37.5
DRL-22-300/ DRB-22-300	22	300	6	37.5
DRL-28-200/ DRB-28-200	28	200	4	75
DRL-28-300/ DRB-28-300	28	300	6	75

● DRL-22/DRB-22 耐熱溫度80°C

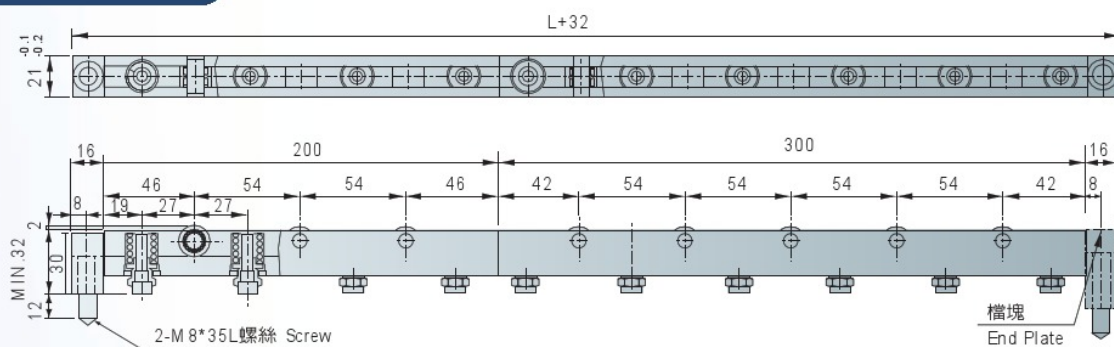
● DRL-28/DRB-28 耐熱溫度150°C

● 品質不斷改良，尺寸變更不另行通知。 Specifications are subject to change without notification.

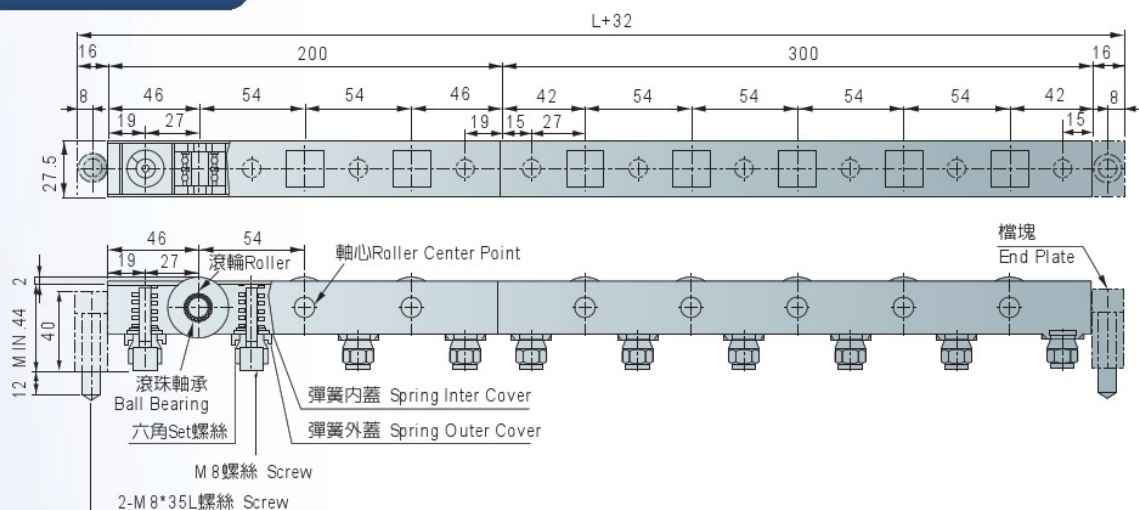
► 快速換模系統—DR型/DU型彈簧式舉模器

FORWELL QDCS - DR/DU Die Lifter

DR-22 Dimensions



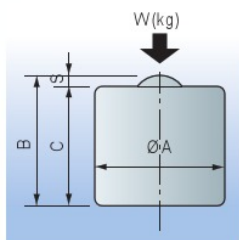
DR-28 Dimensions



單一舉模器最大舉模力(kgf) Maximum Lift Force per Line (kgf)

規格 (Model)	長度(mm)	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DR22		150	225	300	375	450	525	600	675	750	825	900	975	1050	1125	1200	1275	1350	1425	1500
DR28		300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000

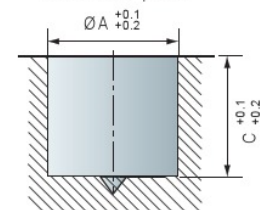
DU 滾珠彈簧式舉模器



特性規格 Specifications

	DU 100	DU 200
A	38 ⁺⁰ _{-0.05}	45 ⁺⁰ _{-0.05}
B	38	45
C	35 ⁺⁰ _{-0.05}	42 ⁺⁰ _{-0.05}
S	3	3
W	100Kgf	200Kgf

台盤加工尺寸 Dimension for modify the bolster plate



► 快速換模系統—DL型油壓式舉模器（滾輪型） FORWELL QDCS - DL Die Lifter (Roller Type)

DL型油壓式舉模器，以油壓方式舉模，有強力舉模能力，適合模具重量變化差異大時使用。

The hydraulic DL DIE LIFTER withstands heavy loads and abuse. The scrap guard / scrapers keep the roller surfaces free from scrap. The rollers are arrayed in closer pitches to prevent damage to the bottom of heavy dies. The height of the roller can be adjusted by removing some of the built-in shims of different thicknesses.



DL型油壓式舉模器

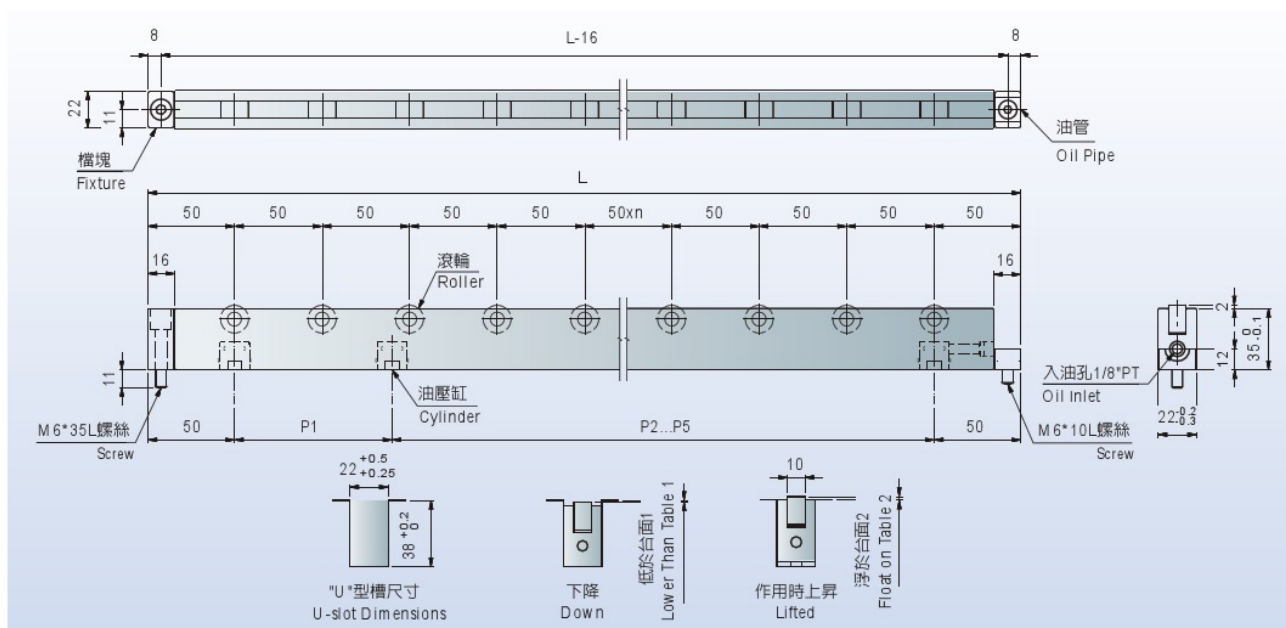
大陸專利號：ZL 01 2 68229.2
China Patent No: ZL 01 2 68229.2



DL-22 Dimensions

規格特性 Specifications

基本形式 Basic Model	Unit	DL22	DL28	DL50
單一缸體舉模力 Lifting Force Per cylinder	tons	0.25	0.5	1.1
工作油壓 Working Hydraulic Pressure	kgf/cm ²	250	250	250
總上昇行程 Total Stroke	mm	3	3	3
單一缸體容量 One Cylinder Capacity	cc.	0.3	0.6	1.4



型號 Model	總長度(mm) Overall	滾輪數 Roller Q'ty	載模能力(kgf) Die Load Capacity	油壓缸(kg) Lift Cylinder		油壓缸距離 (mm) Lift Cylinder Pitch				
				丁數 (pcs)	舉模力(kgf) Lift Force	P1	P2	P3	P4	P5
DL-22-300	300	5	300	2	500	200				
DL-22-400	400	7	420	3	750	90	210			
DL-22-500	500	9	540	4	1000	90	220	90		
DL-22-600	600	11	660	5	1250	90	160	160	90	
DL-22-700	700	13	780	5	1250	90	210	210	90	
DL-22-800	800	15	900	6	1500	90	150	220	150	90

●註：訂購時，如有下料孔請附台盤圖。

For purchases please attach a bolster plate diagram for correct sizing of the waste material hole at the bottom.

●品質不斷改良，尺寸變更不另行通知。 Specifications are subject to change without notification.

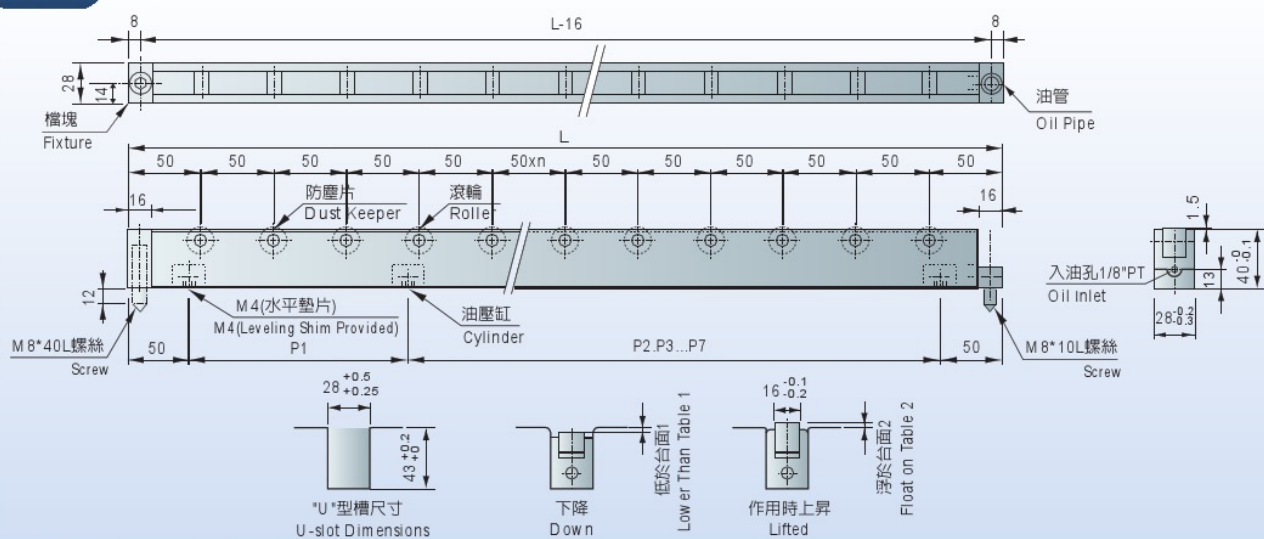
► 快速換模系統—DL型油壓式舉模器（滾輪型）

FORWELL QDCS - DL Die Lifter (Roller Type)

DL型油壓式舉模器，以油壓方式舉模，有強力舉模能力，適合模具重量變化差異大時使用。

The hydraulic DL DIE LIFTER withstands heavy loads and abuse. The scrap guard / scrapers keep the roller surfaces free from scrap. The rollers are arrayed in close pitches to prevent damage to the bottom of heavy dies. The height of the roller can be adjusted by removing some of the built-in shims of different thicknesses.

DL-28



型號 Model	總長度(mm) Overall	滾輪數 Roller Q'ty	載模能力(kgf) Die Load Capacity	油壓缸(kg) Lift Cylinder		油壓缸距離 (mm) Lift Cylinder Pitch						
				丁數 (pcs)	舉模力(kgf) Lift Force	P1	P2	P3	P4	P5	P6	P7
DL-28-400	400	7	560	2	1000	300						
DL-28-500	500	9	720	3	1500	90	310					
DL-28-600	600	11	880	4	2000	100	340	60				
DL-28-700	700	13	1040	4	2000	150	350	100				
DL-28-800	800	15	1200	5	2500	95	95	390	120			
DL-28-900	900	17	1360	5	2500	110	110	410	170			
DL-28-1000	1000	19	1520	6	3000	130	130	420	110	110		
DL-28-1100	1100	21	1680	6	3000	150	150	460	120	120		
DL-28-1200	1200	23	1840	7	3500	100	150	150	200	200	300	
DL-28-1300	1300	25	2000	7	3500	150	150	300	300	150	150	
DL-28-1400	1400	27	2160	8	4000	100	100	150	150	200	250	350
DL-28-1500	1500	29	2320	8	4000	100	100	150	150	200	350	350

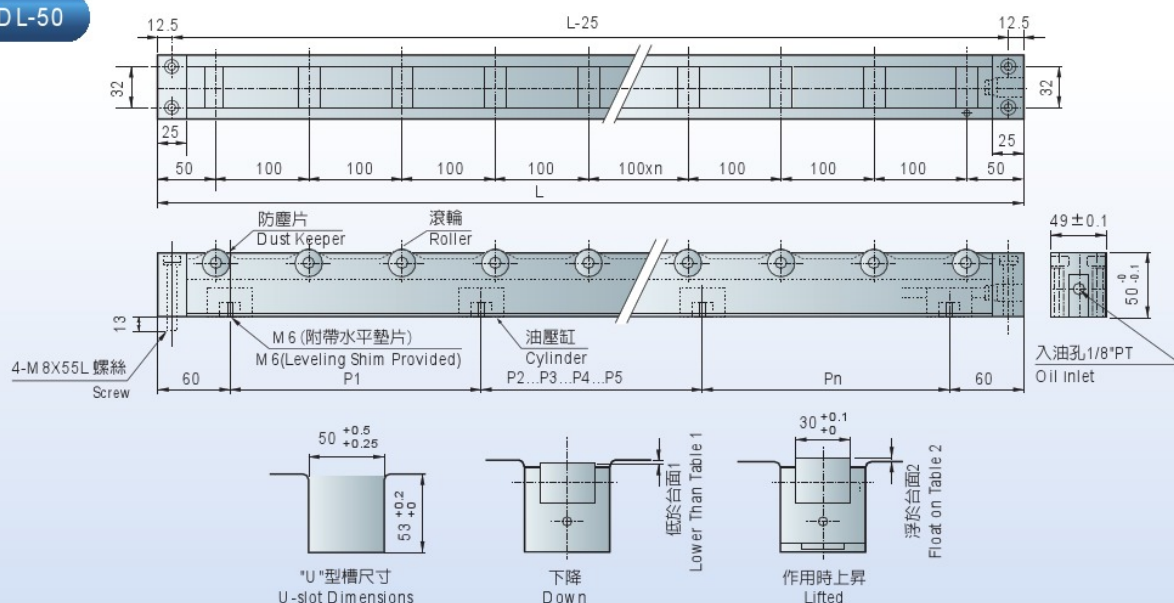
●1000L以上建議使用DL-50

► 快速換模系統—DL型油壓式舉模器（滾輪型） FORWELL QDCS - DL Die Lifter (Roller Type)

DL型油壓式舉模器，以油壓方式舉模，有強力舉模能力，適合模具重量變化差異大時使用。

The hydraulic DL DIE LIFTER withstands heavy loads and abuse. The scrap guard / scrapers keep the roller surfaces free from scrap. The rollers are arrayed in close pitches to prevent damage to the bottom of heavy dies. The height of the roller can be adjusted by removing some of the built-in shims of different thicknesses.

DL-50



型號 Model	總長度(mm) Overall	滾輪數 Roller Q'ty	載模能力(kgf) Die Load Capacity	油壓缸(kg) Lift Cylinder		油壓缸距離(mm) Lift Cylinder Pitch						
				丁數 (pcs)	舉模力(kgf) Lift Force	P1	P2	P3	P4	P5	P6	P7
DL-50-400	400	4	800	2	2200	280						
DL-50-500	500	5	1000	3	3300	90	290					
DL-50-600	600	6	1200	4	4400	90	330	60				
DL-50-700	700	7	1400	4	4400	140	340	100				
DL-50-800	800	8	1600	4	4400	170	390	120				
DL-50-900	900	9	1800	4	4400	210	400	170				
DL-50-1000	1000	10	2000	5	5500	125	125	410	220			
DL-50-1100	1100	11	2200	5	5500	150	150	400	280			
DL-50-1200	1200	23	4600	5	5500	150	150	400	380			
DL-50-1300	1300	25	5000	6	6600	150	150	200	400	280		
DL-50-1400	1400	27	5400	6	6600	150	150	200	400	380		
DL-50-1500	1500	29	5800	7	7700	150	150	200	300	300	280	
DL-50-1600	1600	31	6200	7	7700	100	150	250	400	300	280	
DL-50-1700	1700	33	6600	8	8800	100	100	150	250	300	300	380
DL-50-1800	1800	35	7000	8	8800	100	100	150	250	300	300	480

●註：訂購時，如有下料孔請附台盤圖。

For purchases please attach a bolster plate diagram for correct sizing of the waste material hole at the bottom.

► 快速換模系統—DB型油壓式舉模器（滾珠型）

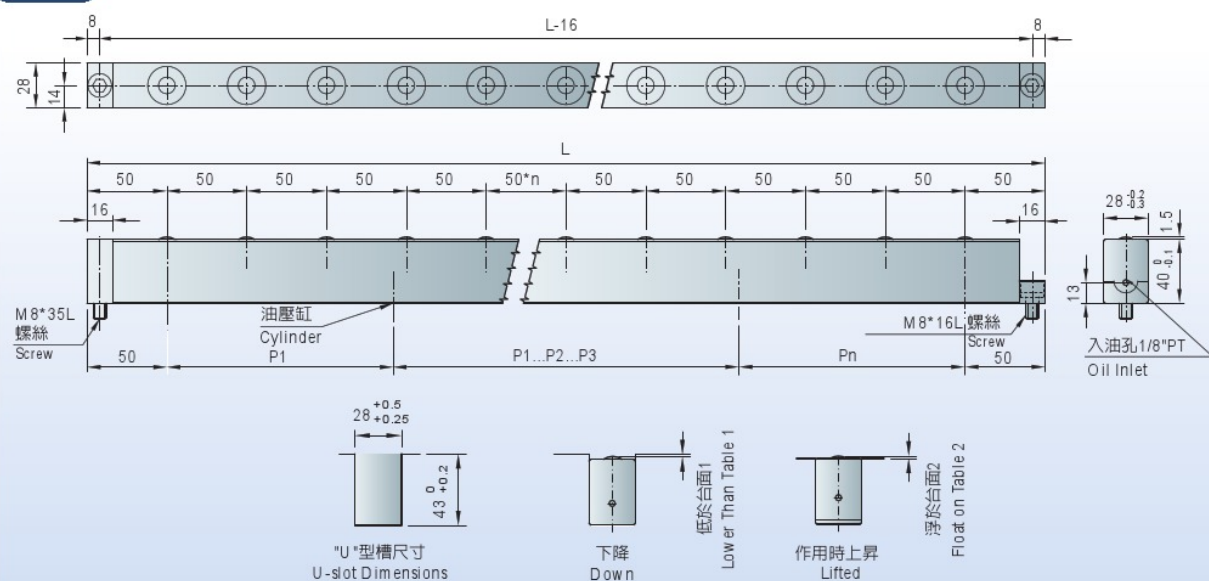
FORWELL QDCS - DB Die Lifter (Ball Type)

DB-28適用於模具重量800kg以下 DB-28 for Dies 800kg or Less

DB型油壓式舉模器，利用萬向滾珠的方式，適合前後左右移動模具時使用。

The hydraulic DB Die Lifter employs universal bearings for superior forward and reverse, left and right motion of molds in and out of press machines.

DB-28



型號 Model	總長度(mm) Overall	滾珠數 Ball Q'ty	油壓缸(kg) Lift Cylinder		油壓缸距離 (mm) Lift Cylinder Pitch						
			丁數 (pcs)	舉模力(kgf) Lift Force	P1	P2	P3	P4	P5	P6	P7
DB-28-400	400	7	2	1000	300						
DB-28-500	500	9	3	1500	90	310					
DB-28-600	600	11	4	2000	100	340	60				
DB-28-700	700	13	4	2000	150	350	100				
DB-28-800	800	15	5	2500	95	95	390	120			
DB-28-900	900	17	5	2500	110	110	410	170			
DB-28-1000	1000	19	6	3000	130	130	420	110	110		
DB-28-1100	1100	21	6	3000	120	120	460	150	150		
DB-28-1200	1200	23	7	3500	300	200	200	150	150	100	
DB-28-1300	1300	25	7	3500	150	150	300	300	150	150	
DB-28-1400	1400	27	8	4000	350	250	200	150	150	100	100
DB-28-1500	1500	29	8	4000	350	350	200	150	150	100	100

● 註：訂購時，如有下料孔請附台盤圖。

For purchases please attach a bolster plate diagram for correct sizing of the waste material hole at the bottom.

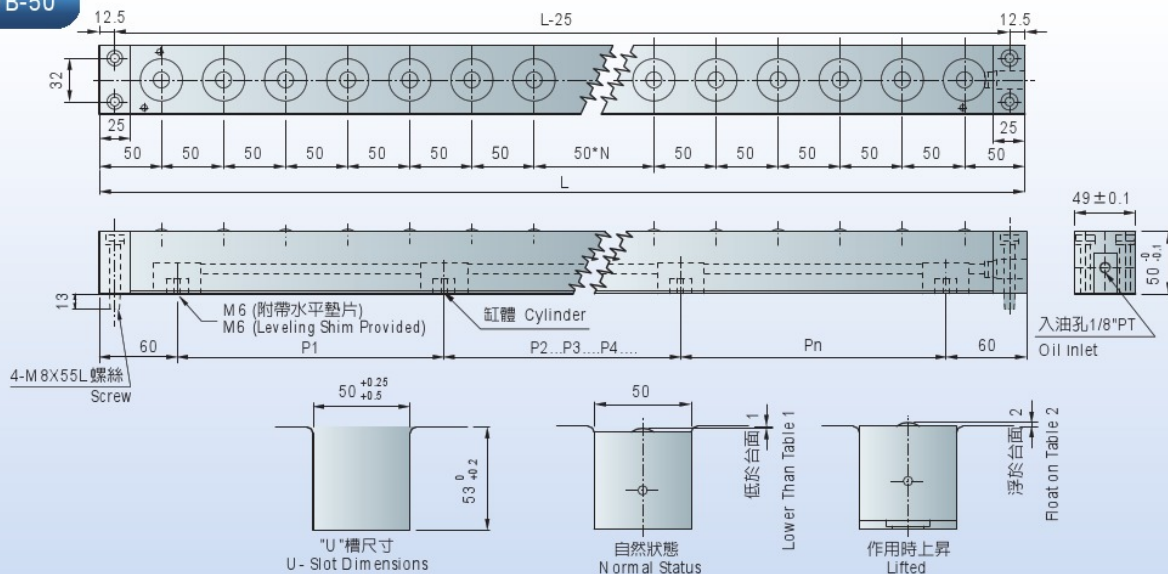
► 快速換模系統—DB型油壓式舉模器（滾珠型） FORWELL QDCS - DB Die Lifter (Ball Type)

DB-50適用於模具重量800~1500kg DB-50 for Dies 800~1500kg

DB型油壓式舉模器，利用萬向滾珠的方式，適合前後左右移動模具時使用。

The hydraulic DB Die Lifter employs universal bearings for superior forward and reverse, left and right motion of molds in and out of press machines.

DB-50



型號 Model	總長度(mm) Overall	滾珠數 Ball Q'ty	油壓缸(kg) Lift Cylinder		油壓缸距離(mm) Lift Cylinder Pitch						
			丁數 pcs	舉模力(kgf) Lift Force	P1	P2	P3	P4	P5	P6	P7
DB-50-400	400	7	2	2200	280						
DB-50-500	500	9	3	3300	90	290					
DB-50-600	600	11	4	4400	90	330	60				
DB-50-700	700	13	4	4400	140	340	100				
DB-50-800	800	15	4	4400	170	390	120				
DB-50-900	900	17	4	4400	210	400	170				
DB-50-1000	1000	19	5	5500	125	125	410	220			
DB-50-1100	1100	21	5	5500	150	150	400	280			
DB-50-1200	1200	23	5	5500	150	150	400	380			
DB-50-1300	1300	25	6	6600	150	150	200	400	280		
DB-50-1400	1400	27	6	6600	150	150	200	400	380		
DB-50-1500	1500	29	7	7700	150	150	200	300	300	280	
DB-50-1600	1600	31	7	7700	100	150	250	400	300	280	
DB-50-1700	1700	33	8	8800	100	100	150	250	300	300	380
DB-50-1800	1800	35	8	8800	100	100	150	250	300	300	480

● 註：訂購時，如有下料孔請附台盤圖。

For purchases please attach a bolster plate diagram for correct sizing of the waste material hole at the bottom.

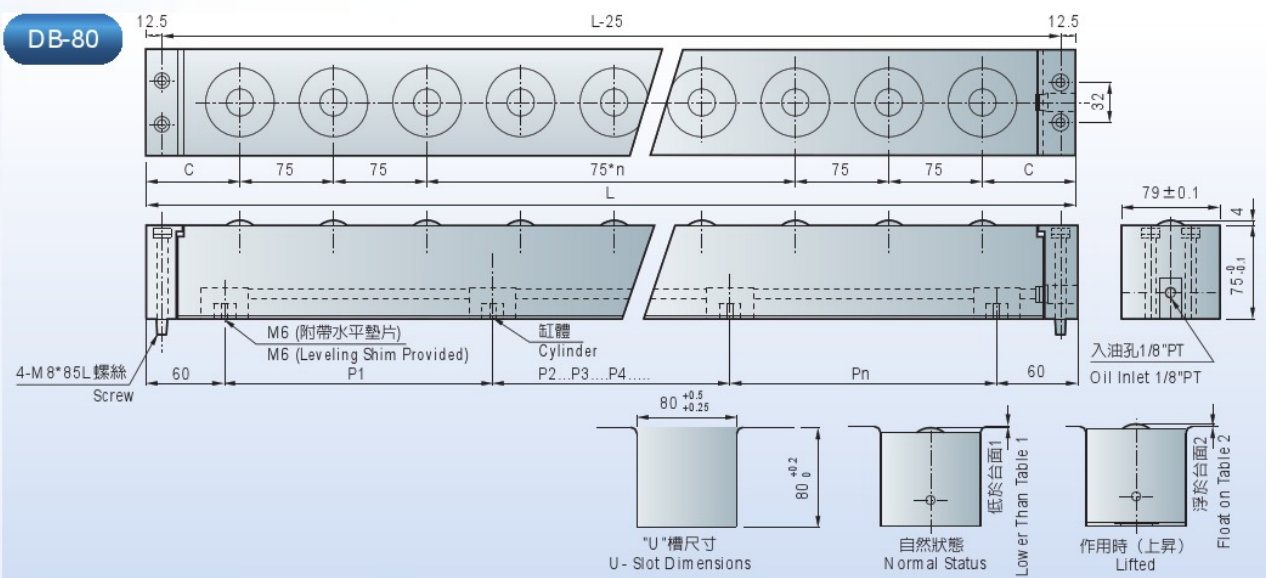
► 快速換模系統—DB型油壓式舉模器（滾珠型）

FORWELL QDCS - DB Die Lifter (Ball Type)

DB-80適用於模具重量1500kg以上 DB-80 for Dies 1500kg or More

DB型油壓式舉模器，利用萬向滾珠的方式，適合前後左右移動模具時使用。

The hydraulic DB Die Lifter employs universal bearings for superior forward and reverse, left and right motion of molds in and out of press machines.



型號 Model	總長度 (mm) Overall	滾珠數 Ball Q'ty	油壓缸(kg) Lift Cylinder		油壓缸距離(mm) Lift Cylinder Pitch															邊距 Margin
			丁數 pcs	舉模力(kgf) Lift Force	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	
DB-80-400	400	4	3	4400	80	120	80													87.5
DB-80-500	500	6	3	4400	90	200	90													62.5
DB-80-600	600	7	4	6600	80	80	160	80	80											75
DB-80-700	700	9	4	6600	90	90	220	90	90											87.5
DB-80-800	800	10	6	8800	80	80	80	200	80	80	80									62.5
DB-80-900	900	11	6	8800	90	90	90	240	90	90	90									75
DB-80-1000	1000	13	6	11000	80	80	80	80	240	80	80	80	80							87.5
DB-80-1100	1100	14	8	11000	90	90	90	90	260	90	90	90	90							62.5
DB-80-1200	1200	15	8	11000	100	100	100	100	280	100	100	100	100							75
DB-80-1300	1300	16	8	13200	90	90	90	90	90	280	90	90	90	90	90					87.5
DB-80-1400	1400	18	10	13200	100	100	100	100	100	280	100	100	100	100	100					62.5
DB-80-1500	1500	19	10	15400	90	90	90	90	90	90	300	90	90	90	90	90	90			75
DB-80-1600	1600	20	10	15400	100	100	100	100	100	100	280	100	100	100	100	100	100			87.5
DB-80-1700	1700	22	12	17600	90	90	90	90	90	90	90	320	90	90	90	90	90	90	90	62.5

●註：訂購時，如有下料孔請附台盤圖。

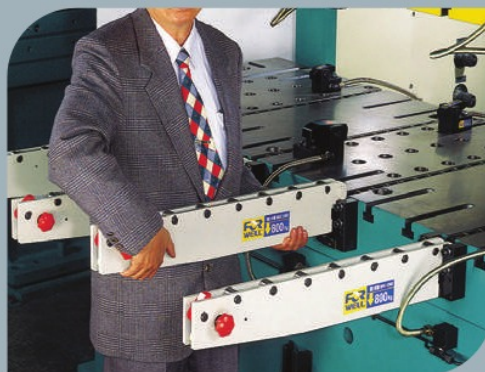
For purchases please attach a bolster plate diagram for correct sizing of the waste material hole at the bottom.

► 快速換模系統—RC/RD/RE/RF型移模臂 FORWELL QDCS - RC/RD/RE/RF Die Arm

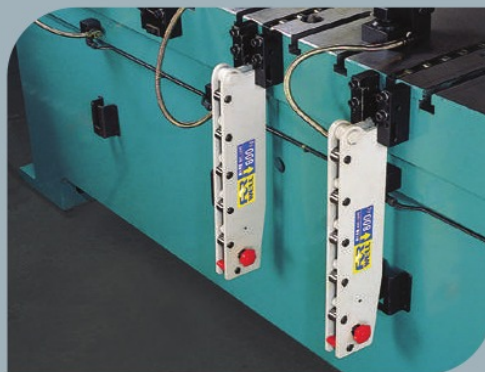
當您使用起重機或叉架昇降機作模具更換時，共有三種不同的型式設計，包括RC(移動式)、RD(折下式)與RE/RF(旋轉式)系列，可供選用移模臂使用，可以使模具更容易的移到沖床台盤確實位置。

Die Arm makes it easy to move dies to an accessible area with a crane or forklift truck for convenient die changes. Three different designs are available: Detachable RC series, drop-down RD series (alternate model), and folding RE/RF series.

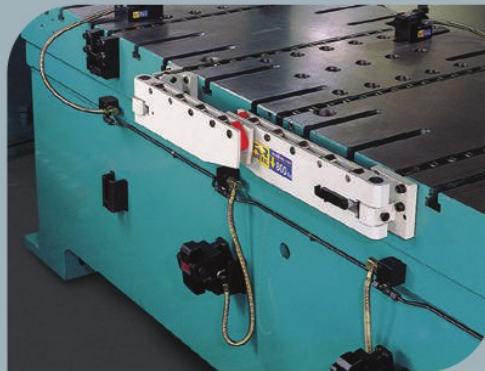
RC Series RC系列



RD Series RD系列



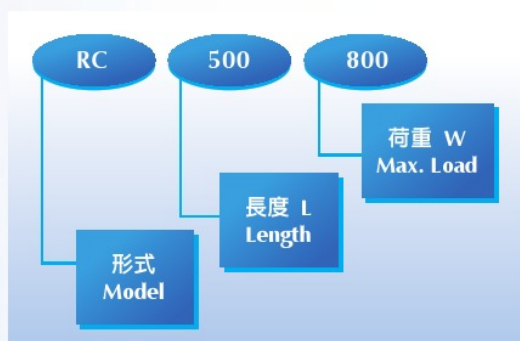
RE/RF Series RE/ RF系列



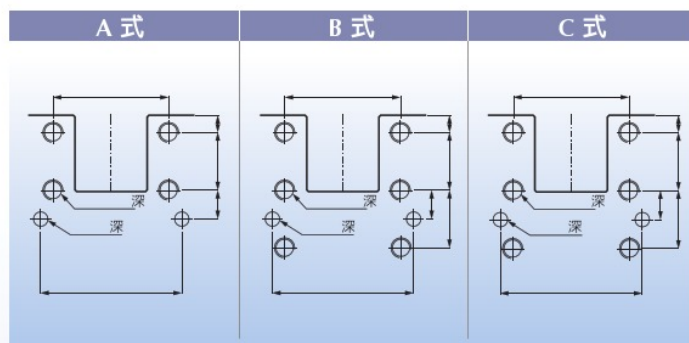
► 快速換模系統—RC型移模臂（輕、中負荷）

FORWELL QDCS - RC Die Arm (Light Duty, Medium Duty)

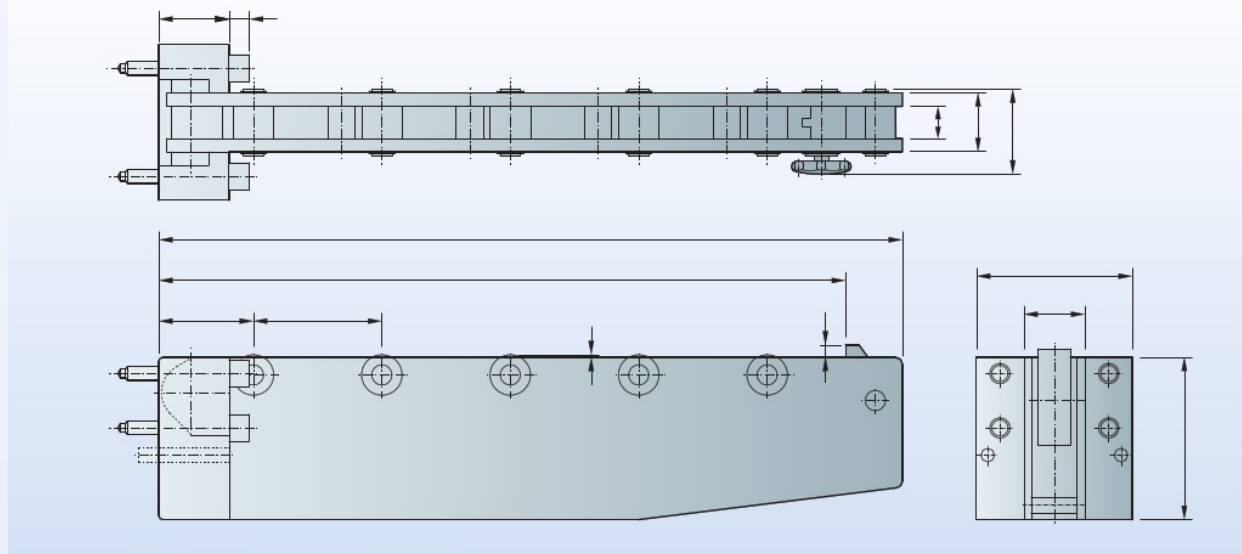
形式表示法 Model/Length/Max. Load



安裝鉗孔尺寸 Mounting Hole Dimensions



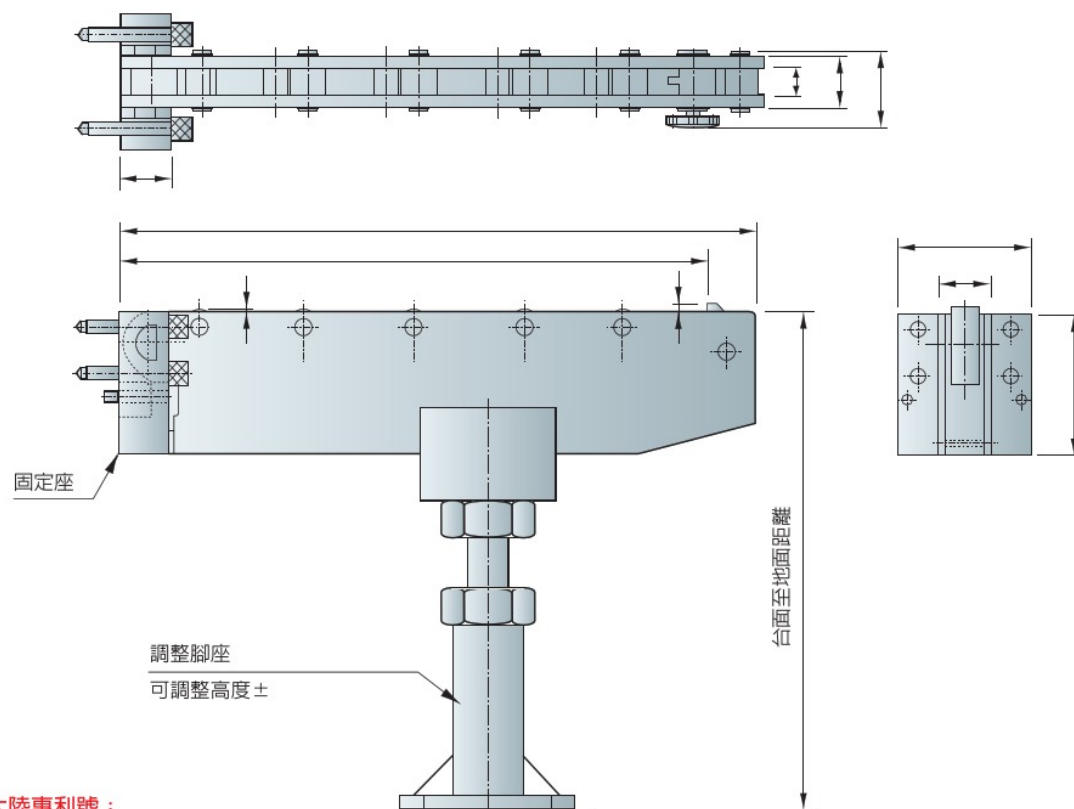
RC Series



型號 Model	模具引出長 Die Travel (L)	最大荷重 Max. Load (kg)	全長 Overall Length (A)	固定座 Fixture			滾輪數 Rollers	安裝尺寸 Installed Dimensions	固定座形式 Fixture Model
								式	
								式	
								式	
								式	
								式	
								式	
								式	

► 快速換模系統—RC型移模臂（重負荷） FORWELL QDCS - RC Die Arm (Heavy Duty)

型（移動式）



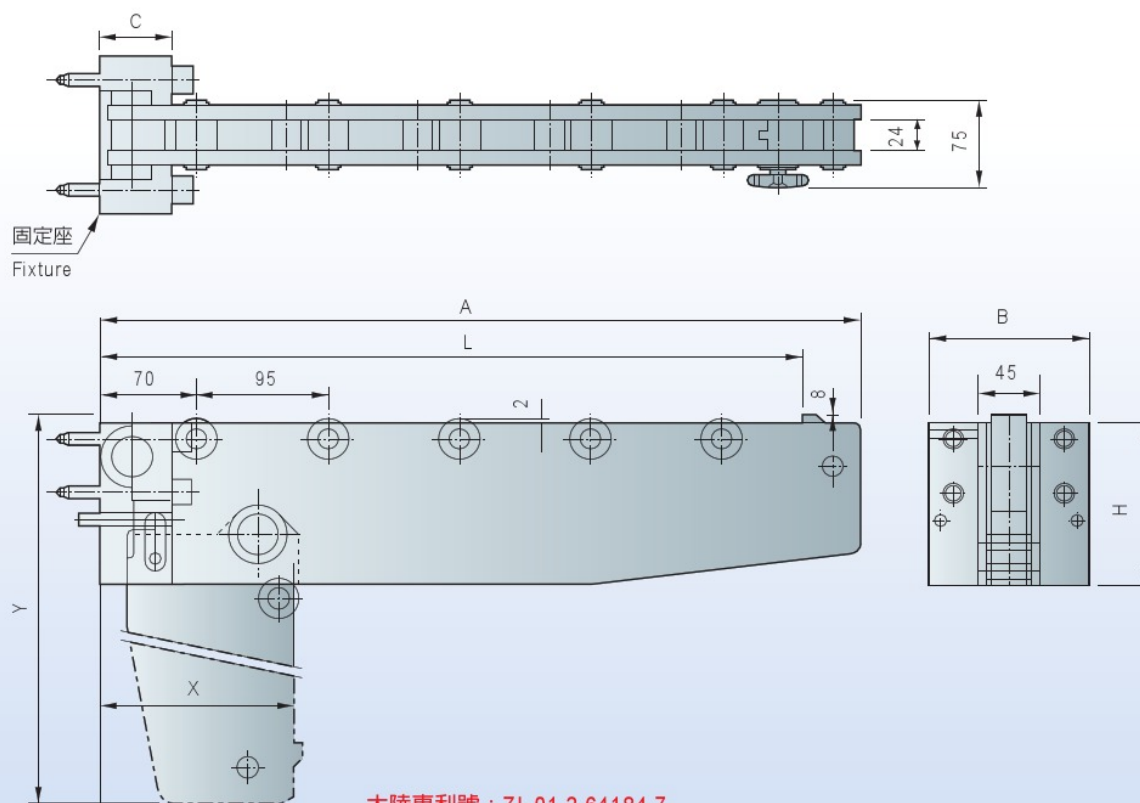
大陸專利號：

型號	模具引出長	最大荷重	全長	固定座			滾輪數	安裝尺寸	固定座形式
								式	

- 尺寸超出 須加調整腳座。
- 規格外請確認。

► 快速換模系統—RD型移模臂 FORWELL QDCS - RD Die Arm

RD型（折下式）Drop-Down RD Series

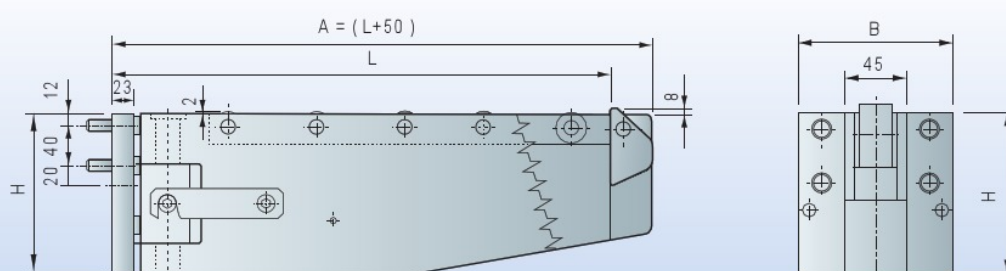


大陸專利號：ZL 01 2 64184.7
China Patent No: ZL 01 2 64184.7

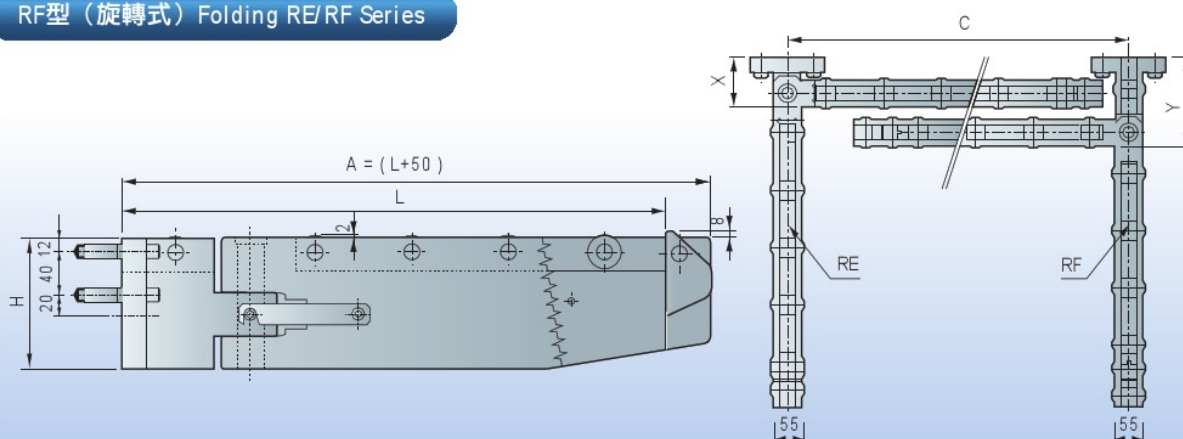
型式 Model	模具引出長 Die Travel (L)	最大荷重 Max. Load	全長 Overall Length (A)	固定座 Fixture			滾輪數 Rollers	安裝尺寸 Installed Dimensions	折下時尺寸 Drop-Down	
				B	C	H			X	Y
RD-500-800	500	800	550	115	52	120	5	A式	140	620
RD-500-1250	500	1250	550			160			180	660
RD-500-1600	500	1600	550			200	7	B式	220	700
RD-700-600	700	600	750			120			140	820
RD-700-1000	700	1000	750			160	8	A式	180	860
RD-800-800	800	800	850			160			180	960
RD-800-1600	800	1600	850			200	9	B式	220	1000
RD-800-2000	800	2000	850			200			220	1000
RD-900-1600	900	1600	950			200	9	B式	220	1100
RD-1000-1600	1000	1600	1050			200	10		220	1200

► 快速換模系統—RE/RF型移模臂 FORWELL QDCS - RE/RF Die Arm

RE型（旋轉式）Folding RE/RF Series



RF型（旋轉式）Folding RE/RF Series



大陸專利號：ZL 01 2 64184.7

China Patent No: ZL 01 2 64184.7

型式 Model	模具引出長 Die Travel (L)	最大荷重 Max. Load	全長 Overall Length (A)	固定座 Fixture			滾輪數 Rollers	安裝尺寸 Installed Dimensions	折下時尺寸 Drop-Down	
				C	B	H			X	Y
RE RF-500-800	500	800	550	525	115	120	5	A式	90	150
RE RF-500-1250	500	1250	550	525		160				
RE RF-700-600	700	600	750	725		120	7			
RE RF-700-1600	700	1600	750	725		200	7	B式		
RE RF-800-800	800	800	850	825		160	8	A式		
RE RF-800-1600	800	1600	850	825		200	8	B式		
RE RF-500-1600	500	1600	550	525		200	5			
RE RF-900-1600	900	1600	950	925			9			

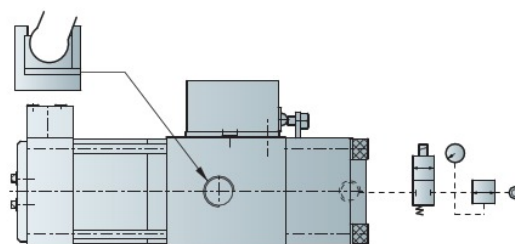
► 過負荷泵浦 Overload Pump

除了換模系統產品以外，富偉也提供了寬廣適用範圍的空油壓組件與設備，這些包括供塑膠射出模具用，和工件夾具系統使用的套件等等，下面圖示說明的產品，如果對您的生產機具有所效用，請與我們聯絡，做更技術性的了解。

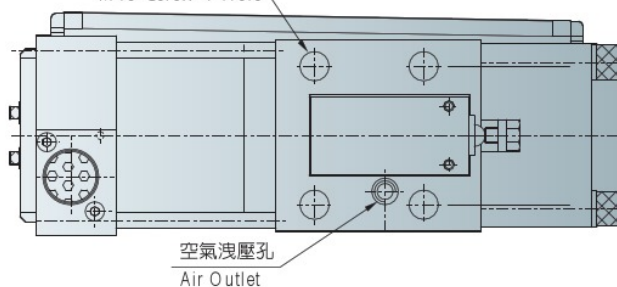
Besides die change systems Forwell offers a wide range of hydraulic and pneumatic controlled components and equipment for plastic injection molds and workpiece clamping systems for machine tools. The components shown below represent just a selection of what we have available. For related brochures and further details, don't hesitate to contact us.



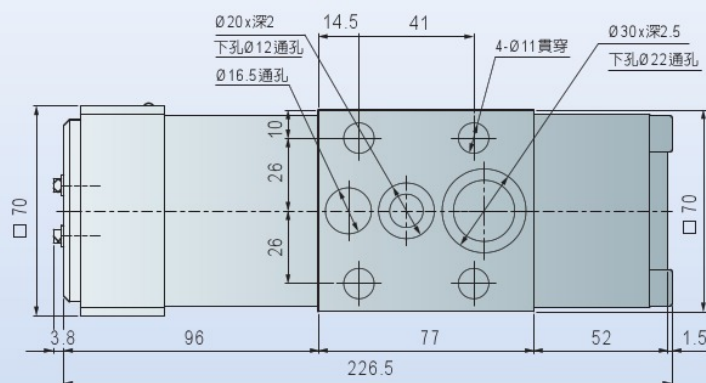
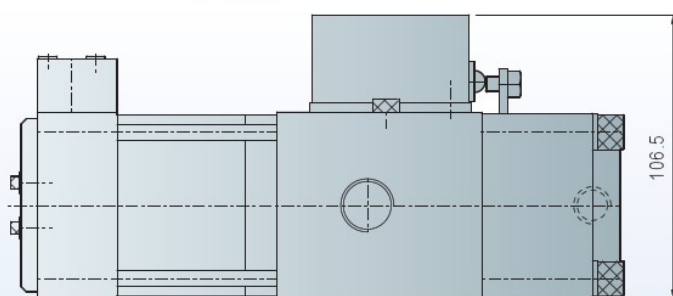
型式 Model	OL107
空氣壓力範圍 Air Supply	2.5~5.5 kg/cm ²
過負荷壓力比 Power Ratio	空氣壓力 x 70 倍 Air Pressure x 70
過負荷壓力範圍 Power Pressure	175~385 kgf/cm ²
洩載面積 Area of Air Outlet	0.42 cm ²



M10螺絲-4孔
M10 Screw-4 Hole



空氣洩壓孔
Air Outlet



► 相關零件 Related Products for Press Machines

氣動泵單體 Air Pump



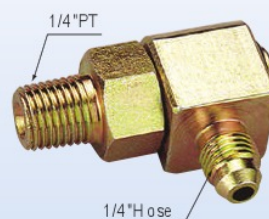
外形圖於P12~P13
Model on P12~P13

	空氣壓力5kg/cm ² 時出力 At Air 5kg/cm ²	增壓比 Pressure Ratio
06	420 (kg/cm ²)	1:84
07	300 (kg/cm ²)	1:60
08	250 (kg/cm ²)	1:50
09	200 (kg/cm ²)	1:40
10	150 (kg/cm ²)	1:30
12	100 (kg/cm ²)	1:20
14	80 (kg/cm ²)	1:16
16	50 (kg/cm ²)	1:10
20	40 (kg/cm ²)	1:8
24	26 (kg/cm ²)	1:5

AV氣控閥 Air Control Valve



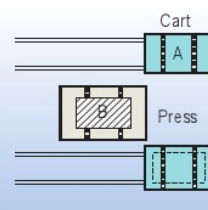
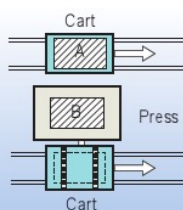
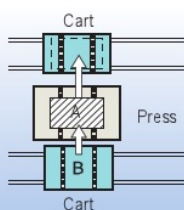
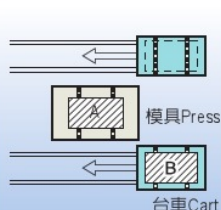
迴轉接頭 Rotary Unit



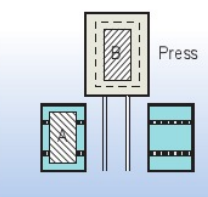
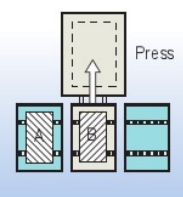
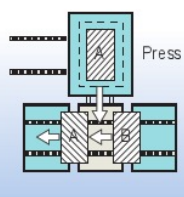
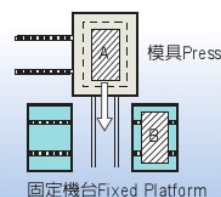
1/4"PT x 1/4"H
耐壓 Pressure Resistance: 700kg/cm²

換模台車系統 Example Die Cart Systems

搭配台車，兩副模同時換模，節省換模時間。
Simultaneous 2-die change using two carts. The shortest die change time is achieved.



搭配移模和兩組固定台車進行換模，此為低成本型。
Die change using a moving bolster and two stationary tables. Low cost type.



動力雙模台車換模，適用範圍極廣。
Die change using a powered 2-die cart. Many applications are possible.

