

高性能精密冲床

High Efficiency Precision Press

SC1 SERIES

60 - 250

SC1-60

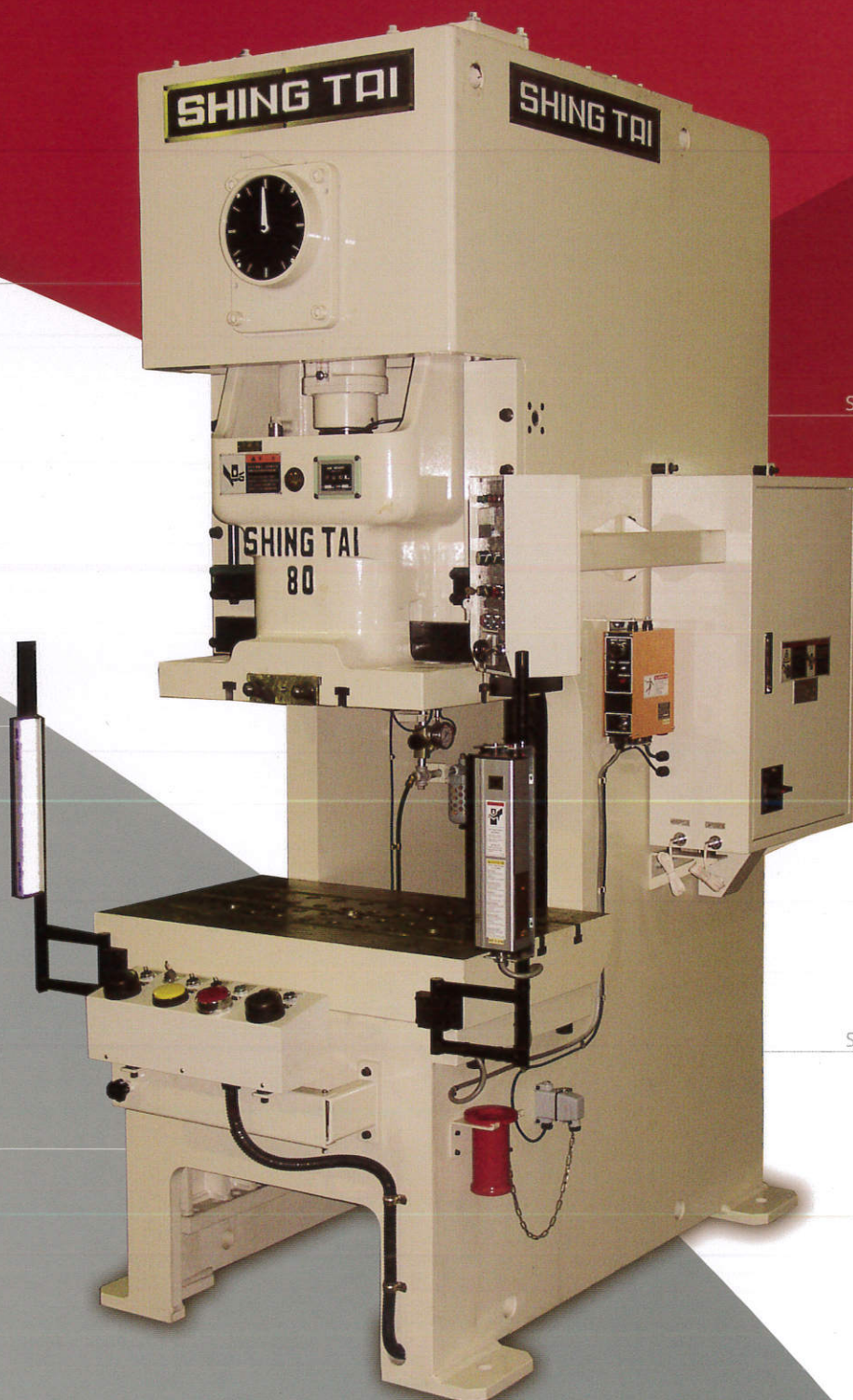
SC1-160

SC1-80

SC1-200

SC1-250

SC1-110



Together We Shape The Future.

興泰高性能精密沖床

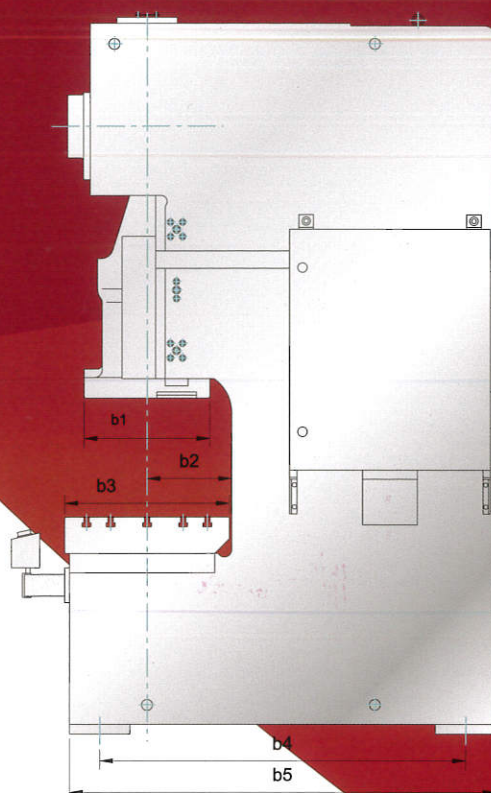
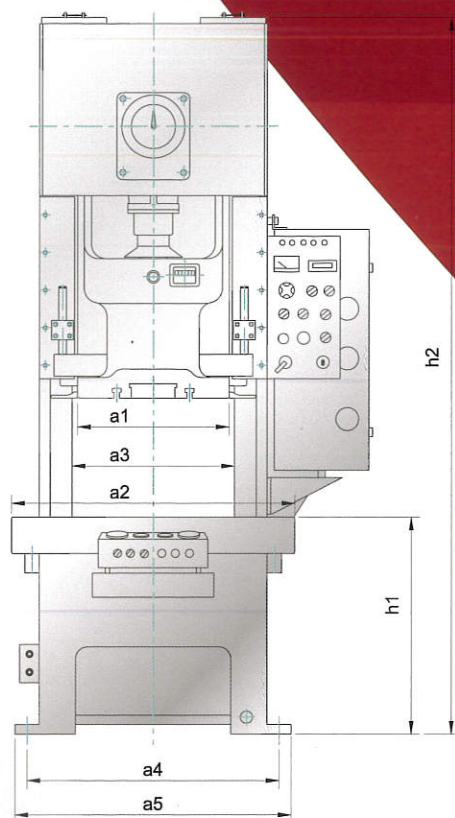
SC1系列 60.80.110.160.200.250

SHING TAI HIGH EFFICIENCY PRECISION PRESS

SC1 SERIES 60.80.110.160.200.250

主要規格和尺寸 Main Specification & Dimension

型 式		Model		SC1-60			SC1-80	
				(S)	(1)	(2)	(S)	(1)
能 力	Capacity	t on		60			80	
能力發生位置 (下死點上)	Tonnage rating point (above B.D.C.)	mm		2.3	4		3.2	
行 程	Stroke length	mm		55	90	140	60	100
每 分 鐘 行 程 數	固 定 可 變	Stroke per minute	Standard	—	—	70	—	—
			Variable	80~165	60~120	45~85	75~150	50~110
容 許 間 斷 轉 數	Allowable intermittent	S.P.M		50	45	50	60	53
模 高	Die height, slide to bolster	mm		270		300	300	
滑 塊 調 整 量	Slide adjustment	mm		70			80	
滑 塊 面 積 (a1xb1)	Slide area (a1xb1)	mm		480 × 400			540 × 460	
平 板 面 積 (a2xb3)	Bolster area (a2xb3)	mm		900 × 520			980 × 600	
平 板 厚 度	Bolster thickness	mm		130			140	
機 架 喉 深 (b2)	Frame gap (b2)	mm		270			310	
機 架 內 側 尺 寸 (a3)	Frame inside measurement a3	mm		580			640	
約 略 尺 寸	工 作 高 度 h1	Bolster surface height h1	mm	900			900	
	機 架 總 高 度 h2	Press overall height h2	mm	2520		2575	2685	
	地 基 螺 絲 (a4xb4)	Position of anchor bolt (a4xb4)	mm	860 × 1135			920 × 1310	
	機架佔地面積 (a5xb5)	Floor space required (a5xb5)	mm	960 × 1400			1040 × 1550	
公 稱 工 作 能 量	Nominal working energy	kg-m		240			400	
主 電 動 機	Main motor	Hp x p		7.5 × 4			10 × 4	
氣 壓	Required air pressure	kg/cm ²		5			5	
機 械 總 重 量 (約)	Approx. machine weight	Tom		6			8	



單位: mm

SC1-110				SC1-160			SC1-200			SC1-250	
(2)	(S)	(1)	(2)	(S)	(1)	(2)	(S)	(1)	(2)	(1)	(2)
	110			160			200			250	
	3.2	5		4	6		4	6		7	
160	70	110	180	80	130	200	95	160	250	170	280
60	—	—	50	—	—	45	—	—	35	—	25
40~75	65~135	45~100	35~65	55~115	40~85	30~55	45~95	30~70	25~45	25~45	20~35
60	50	48	50	23	29	38	39	37	35	32	28
320	320		350	350		400	410		450	450	550
	90			100			110			120	
	625 × 520			700 × 580			880 × 650			950 × 720	
	1170 × 680			1220 × 760			1440 × 840			1550 × 920	
	150			165			180			190	
	350			390			430			470	
	670			740			940			980	
	900			900			1000			1100	
2735	2885		2950	3115		3200	3605		3690	4015	4170
	1040 × 1510			1140 × 1790			1360 × 2020			1440 × 2000	
	1140 × 1760			1240 × 2030			1460 × 2290			1560 × 2400	
	550			960			1200			1400	
	15 × 4			20 × 4			25 × 4			30 × 4	
	5			5			5			5	
	11			16			23			30	

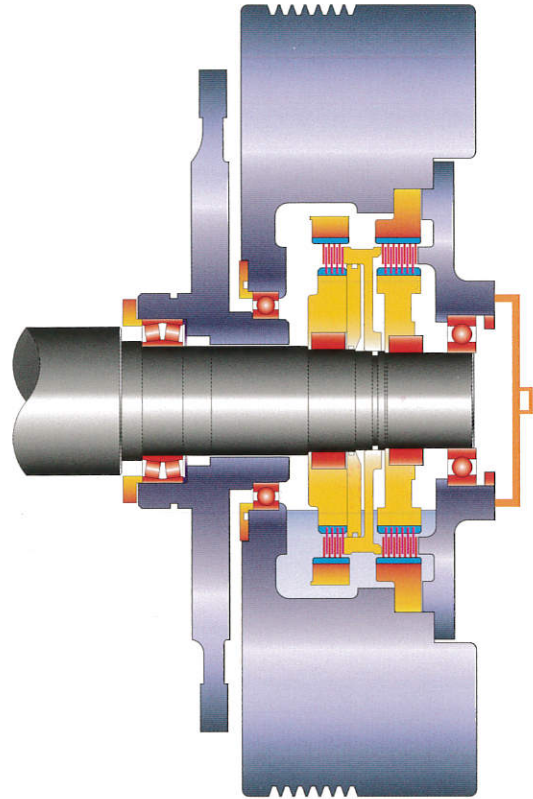
濕式離合器 Wet Clutch and Brake

高傳動扭矩的濕式離合煞車器

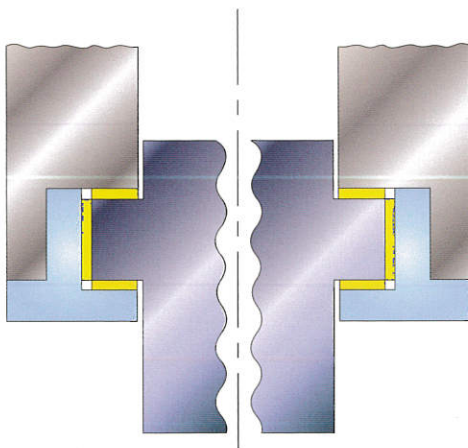
- 高性能、高效率的浸油式離合、煞車來令片，提供永續性使用壽命。
- 低慣性、高扭矩的多板式設計，使啟動、煞車的靈敏度大幅提昇。
- 獨特的設計可允許較高的斷續作業，適合機械手之連續作業。
- 低噪音、無污染，充份符合未來環保之要求。

High transmission wet clutch /brake

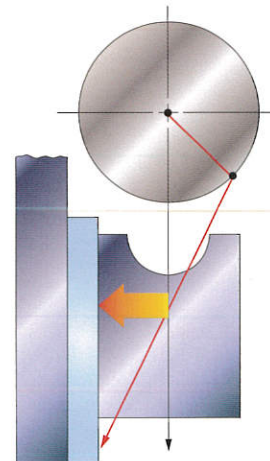
- High performance and efficiency oil bathed clutch/brake linings provide lasting service life time.
- Low inertia/High torque multi-disk design, ensuring more improved sensitivity on start and brake.
- Unique design allows faster intermitten operation, good for synchronized operation with robot arm.
- Low noise, zero pollution, fully complied to the future requirement of environment protection.



滑塊導軌結構 Slide guide structure

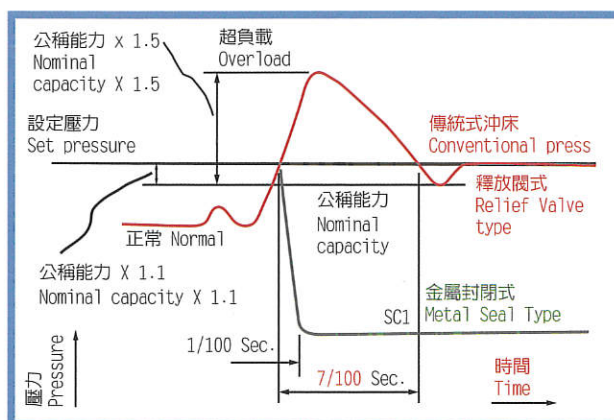
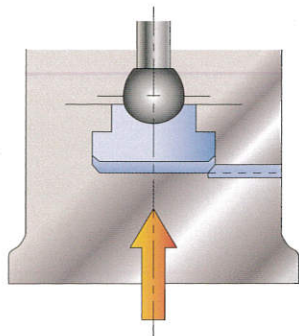
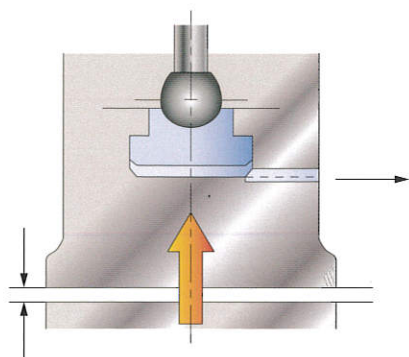


- 保持滑塊精度的方形銅襯與潤滑系統
The square copper liner and lubrication system keeps the slide in very high precision.
- 滑塊銅襯的材質使用磷青銅，平穩且容易保持精度，提高精製產品，增長模具壽命。
- The slide liner is made of phosphor bronze, being smooth and easy to keep precision, prolong die life and elevation the high quality of the products.



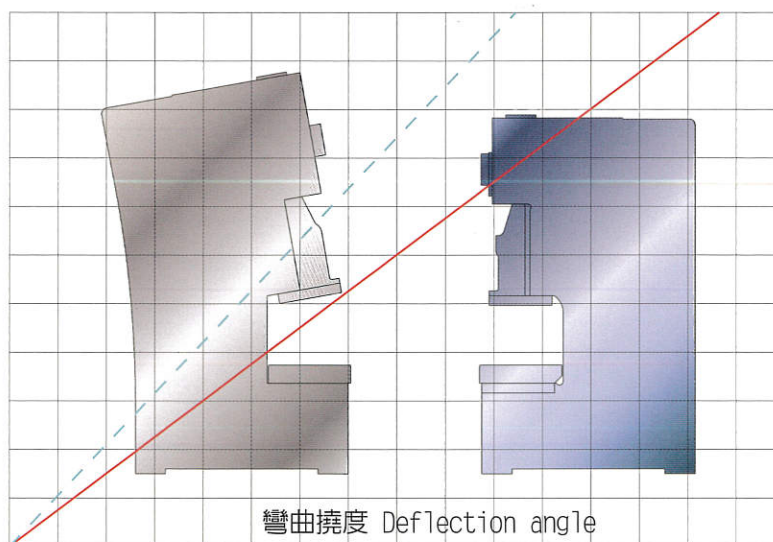
- 滑塊側面對機架受力方向
Slide side thrust to be sustained direct by frame.

超負載保護器 Hydraulic overload protection system



- 當沖床過載使用時，液壓油經過金屬封閉閥門漏出，沖床立即停止作動。
When the press is operating under overloading, the oil escapes through the metal seal and the press is brought to a stop instantly.
- 它的功能是在沖床超負載使用時，瞬時間急停止。（感應時間在1/100秒）此時，沖床必須運轉至上死點的位置，過載解除後，可立即恢復正常作業。
- Its function is to make instant emergent stop when the press is operating under overloading (Its inductive reaction is within 1/100 sec.) At this time, The press should be turned to the upper dead center and will return to normal operating after the overloading is relieved.

結構設計 Structural design



結構設計 Structural design

比傳統式的沖床較為小型，但更有效的空間利用。

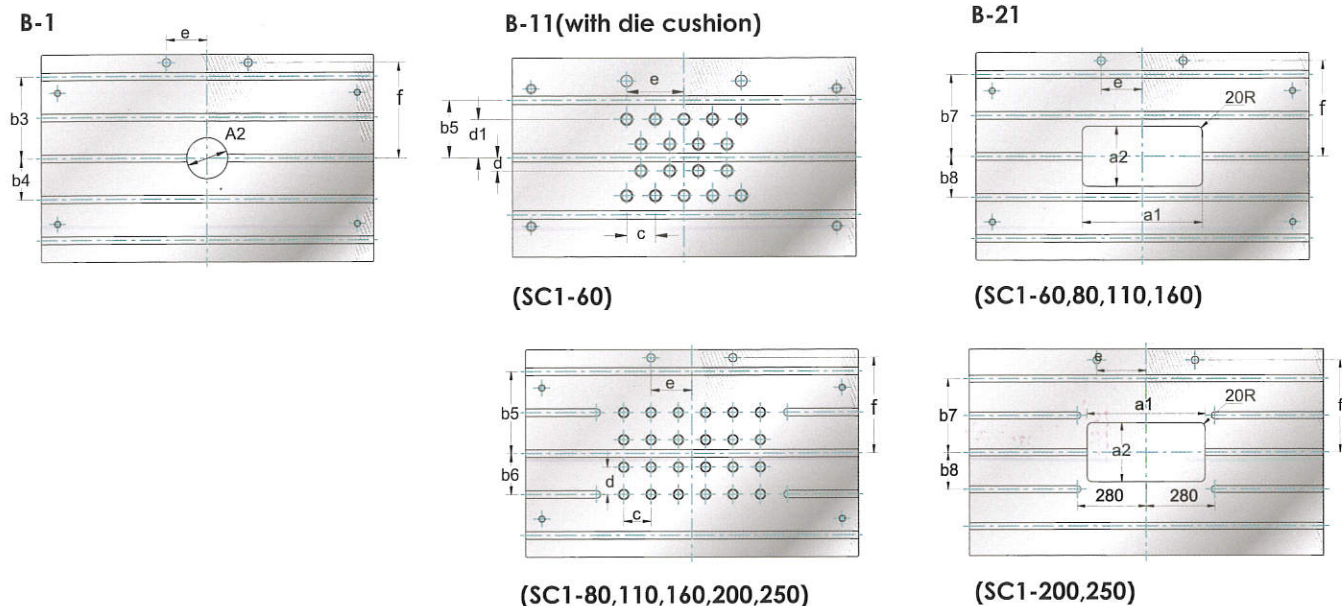
It is smaller in size than the conventional press, but more effective in space occupation.

彎曲撓度 Angular deflection

機架鋼板具有高強度機械應力和最低的彎曲撓度，可減少沖壓變形，保持精密的沖壓部位延長模具的壽命。

The frame steel plate has high-tensile stress and minimal angular deflection. This features to reduce punching deformation maintain precise punching position, and prolong the life of the dies.

 平板表面圖 Bolster surface

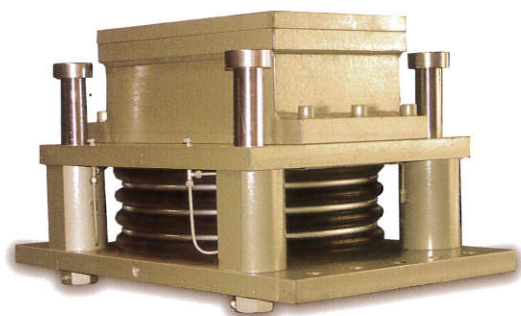


 規範 Specification

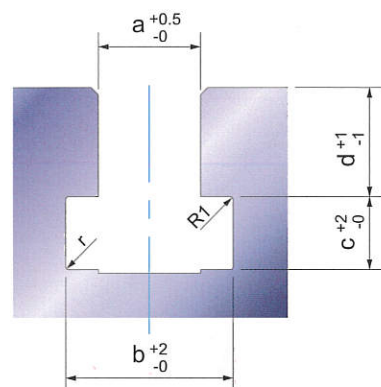
單位:mm

		SC1-60	SC1-80	SC1-110	SC1-160	SC1-200	SC1-250
平板面積 Bolster area	Type	900 × 520	980 × 600	1170 × 680	1220 × 760	1440 × 840	1550 × 920
B-1	T型槽數 Number of T solts	3	3	5	5	5	5
	A2	ø150	ø150	ø150	ø150	ø200	ø250
	b3	150	150	250	300	300	350
	b4	/	/	150	150	150	200
B-11	T型槽數 Number of T solts	3	3	5	5	5	5
	氣墊銷孔 Cushion pin hole	18pcs.(ø26)	24pcs.(ø26)	24pcs.(ø26)	24pcs.(ø32)	24pcs.(ø32)	48pcs.(ø32)
	c × d × d1	75 × 35 × 100	75 × 75	90 × 90	100 × 100	100 × 100	100 × 100
	b5	150	150	250	300	300	350
	b6	/	/	150	150	150	200
B-21	T型槽數 Number of T solts	3	3	5	5	5	5
	a1 × a2	320 × 160	360 × 180	400 × 200	440 × 220	480 × 240	540 × 270
	b7	150	150	250	300	300	350
	b8	/	/	150	150	150	200
銷孔位置	e	150	150	150	150	200	250
	f	200	250	300	350	375	400
Positioning pin	銷孔Pin hole	2pcs.(ø30)	2pcs.(ø30)	2pcs.(ø30)	2pcs.(ø30)	2pcs.(ø30)	2pcs.(ø30)

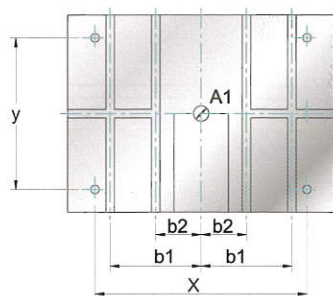
模具氣墊 Die cushion



滑塊T型槽尺寸 Dimension of T slot(For Slide)



滑塊墊板圖 Slide surface



Number Symbol	22	28
a	22	28
b	37	46
c	16	20
d	24	28
r	2	2
Applied bolt	M20	M24

模具氣墊規範 Specification of die cushion

單位:mm

型 式	Model	SCY-60	SCY-80	SCY-110	SCY-160	SCY-200	SCY-250
能 力	Capacity(5kg/cm ²)(t)	3.5	6.3	8.0	10.0	14.0	14.0
行 程	Stroke length(mm)	70	70	80	80	100	130
氣墊面積(左右×前後)	Pad area LR×FB(mm)	335 × 235	410 × 260	480 × 300	540 × 340	640 × 440	760 × 560

本規範如有變更不另行通知 / ABOVE SPECIFICATION IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

規範 Specification

單位:mm

		SC1-60	SC1-80	SC1-110	SC1-160	SC1-200	SC1-250
滑塊面積 Slide area (L.R×F.B)	(1)、(2)Type	480 × 400	540 × 460	625 × 520	700 × 580	880 × 650	950 × 720
T型槽尺寸 Dimension of T slots	尺寸 Dimensions	22	22	22	28	28	28
S-1	T型槽數 Number of T slots	2	2	2	4	4	4
	A1	ø50.8	ø50.8	ø50.8	ø50.8	ø50.8	ø63.5
	b1	150	150	150	250	300	350
	b2	/	/	/	150	150	200
懸掛銷孔 Suspension pin hole	X×Y	380 × 300	440 × 360	500 × 420	600 × 480	700 × 500	830 × 600
	銷孔 Pin hole	4 × ø18	4 × ø21	4 × ø23	4 × ø28	4 × ø28	4 × ø32

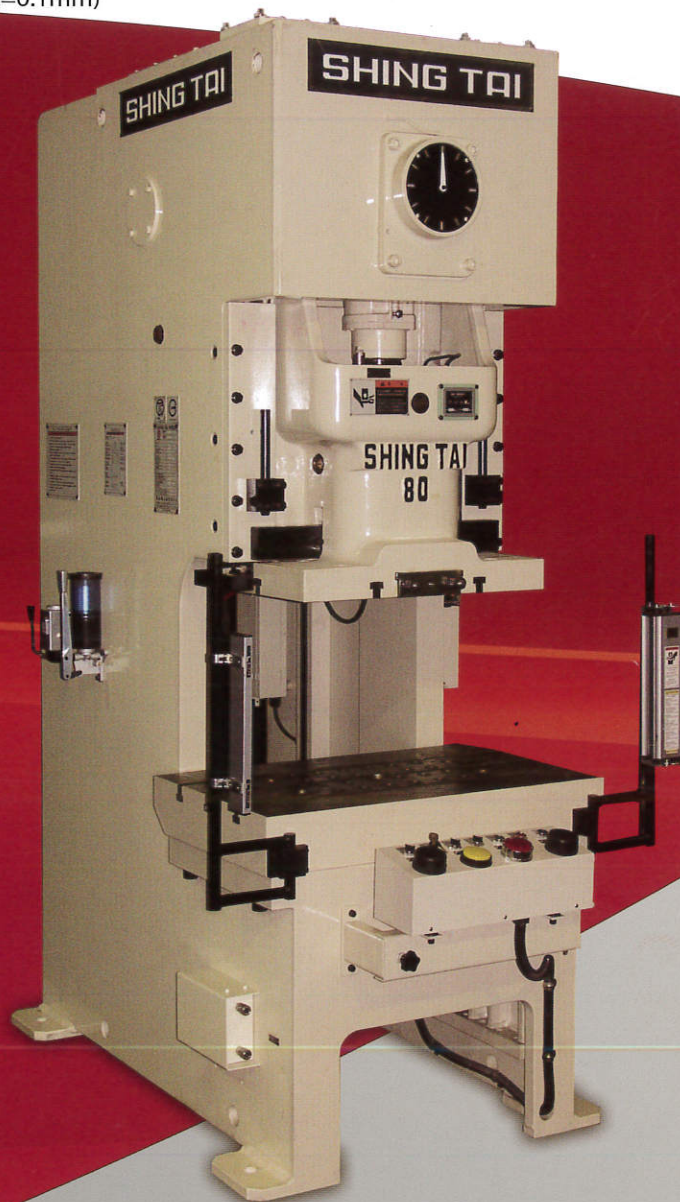
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標準配件 Standard Equipment

1. V.S馬達 V.S motor
2. 濕式離合器裝置 Wet clutch
3. 電動滑塊調整裝置 Electrical die height adjusting device
4. 油壓式超負載保護裝置 Hydraulic overload protection system
5. 手動式黃油幫浦裝置 Manual lubricating pump
6. 模高指示器 (單位0.1mm) Die height indicator (displayable unit=0.1mm)
7. 二度落裝置 Over run
8. 誤送檢知插座接頭2組 Miss-feed detector socket
9. 空氣源接頭1組 Air outlet
10. 氣壓噴射器1組 Air ejector
11. 操作說明書一份 Operation manual

選擇性配件 Optional Equipment

1. 模具氣墊 Die cushion
2. 電子式曲軸角度顯示器 Crank angle indicator
3. 移動式操作台 Operator T-stand
4. 自動送料軸 Power Take-off Shaft
5. 光電安全裝置 Photo electric safety device
6. 頂料裝置 Knockout Device
7. 快速換模裝置 Quick die change device
8. 防震機械腳 Anti vibration mounts
9. 預調計數器 Pre-set Counter
10. 腳踏操作器 Foot Switch
11. 模具照明燈 Die light device
12. 荷重監示裝置 Tonnage monitor (2 or 4 channel)
13. 電動式黃油泵浦裝置 Motor-driven lubricating pump
14. 其它 other



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since 1979

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