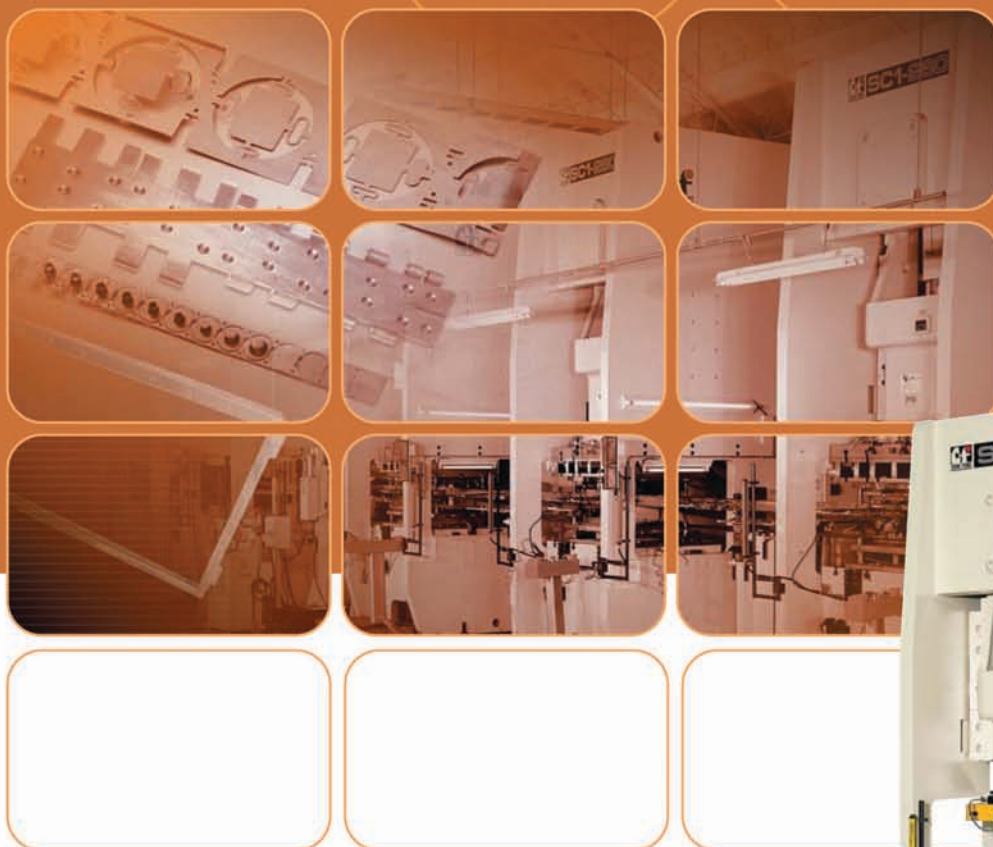


**Straight Side**  
Single Crank Precision Power Presses

SC1



80. 110. 160. 200. 260. 300. ton

**ALL NEW**

# SC1 Series

**Straight-Side**  
Single Crank Precision Power Presses

- Low-Cost Solution
  - Reduced Noise & Vibration
  - Rigid Fabricated Steel Frame Structure And Cast Slide
  - User-Friendly Operator Controls
- Reduced Angular Deflection
  - Minimal Frame Deflection
  - Resistant To Off-center Loading
  - Easy Adaptation Of Various Press Automation Equipment.
- High Performance Wet Type Combination Clutch/Brake
  - Rigid Frame & Superior Strength
  - Minimum Total Clearance
  - Electronic Crank Angle Indicator

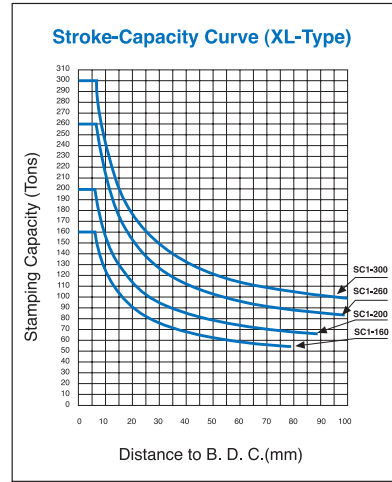
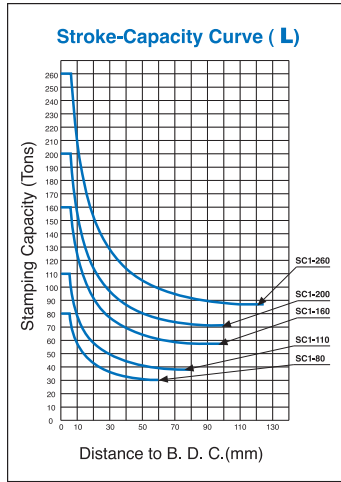
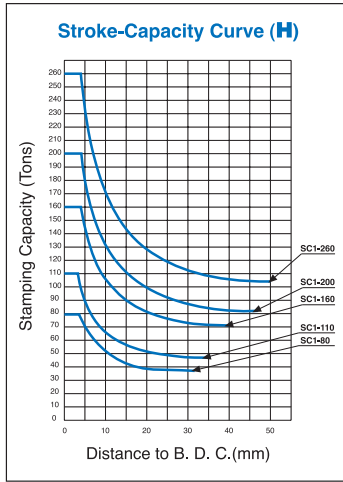
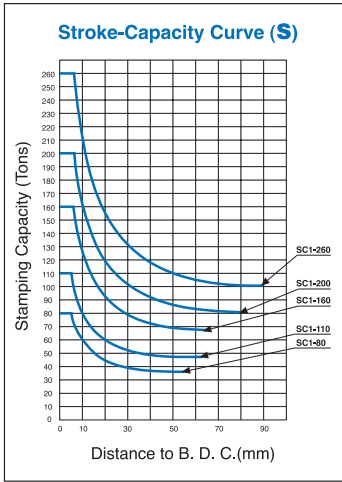


**SPECIFICATIONS**

Model	SC1-80			SC1-110			SC1-160				SC1-200				SC1-260				SC1-300			
Type	S	H	L	S	H	L	S	H	L	XL	S	H	L	XL	S	H	L	XL	XL			
Capacity Tons	80			110			160				200				260				300			
Rated Tonnage Point (Above B.D.C.) mm	5	3.2	5	5	3.2	5	6	4	6	6	4	6	6.5	4	6.5	7						
Stroke Length mm	100	60	160	110	70	180	130	80	200	250	150	95	200	250	180	100	250	300	300			
Strokes Per Minute S.P.M.	55~110	75~150	40~75	50~100	65~135	30~65	40~85	55~115	25~50	20~45	35~70	45~95	20~45	20~40	30~60	40~75	20~40	20~35	20~35			
Die Height (S.D.A.U) mm	300		330	320		350	350		450	410		450		460		500	540	550				
Maximum Upper Die Weight Kg	550			620			700				800				800				900			
Slide Adjustment mm	80			90			100				110				120				120			
Bolster Area (L.R. x F.B.) mm	750x460		750x600	900x520		900x700	1000x580		1000x750	1150x650		1150x850		1300x700		1300x900		1600x1000				
Slide Area (L.R x F.B.) mm	560x460			650x520			700x580				850x650				920x700				1400x900			
Side Opening (F.B x H) mm	510x430		650x460	570x470		750x500	630x510		800x560	800x610	700x570		900x610		750x620		950x660	950x700	1100x750			
Scrap Opening(LRxH) mm	480x280			540x280			580x280				720x285				710x330				1000x410			
Main Motor	Variable HPxP	VS 10x4		VS 15x4			VS 15x4				VS 20x4				VS 25x4				VS 30x4			
	Fixed HPxP	7.5x4		10x4			15x4				20x4				25x4				30x4			
Slide Adjusting Motor	KWxP	0.4x4 (0.5HPx4P)		0.4x4 (0.5HPx4P)			0.75x4 (1HPx4P)				0.75x4 (1HPx4P)				1.5x4 (2HPx4P)				2.2x4 (3HPx4P)			
<b>Die Cushion</b>																						
Capacity ton	-		6.3	-		8	-				10				-				14	14		
Pad Area (L.R. x F.B.) mm	410x260			500x300			540x350				640x470				700x470				700x470			
Stroke mm	70			80			80				100				100				100			
<b>Machine Dimension</b>																						
Width mm	1230			1365			1500				1760				1910				2260			
Depth mm	1730		1800	1950		2040	2205		2290	2490		2590		2655		2755		2945				
Height mm	2820		2880	2980		3045	3410		3545	3710	3780		3845		3855		4240		4325		4390	4525

\*Optional

※ Die cushion applicable to L & XL Type only.



### Super Rigid Steel Frame

The CHIN FONG SC1 Series is designed to resist deflection, and provide accurate pressings and longer die life, even at full tonnage loads. The heavy, one-piece welded steel frame is fully stress relieved and stands solid for challenging stamping applications.

### High Performance Wet Clutch & Brake

The CHIN FONG clutch delivers high torque at relatively low air pressure, and with a low moment of inertia. Modern, suited clutch and brake friction linings combine high performance with low vibration and noise. The linings run in an enclosed oil bath, providing very efficient heat dissipation. Together, these superior features add up to a high performance, efficient, long-lived clutch, with reduced lining wear and air consumption, even at high single-stroke rates of production

1. Press Frame
2. Flywheel
3. Wet Clutch & Brake
4. Pinion Drive Shaft
5. Main Gear
6. Counter Balancer
7. Crankshaft
8. Adjusting Screw
9. Chamber of H.O.L.P.
10. Slide
11. Slide Knockout
12. Slide Plate (Detachable)
13. Bolster

### Highly Responsive Hydraulic Overload Protector (H.O.L.P.)

1. Piston
2. Hydraulic Overload Protector Cylinder
3. H. O. L. P.
4. Oil Tank

Chin Fong's fast response H.O.L.P. will relieve the pressure of a tonnage overload in milliseconds, causing the press to stop simultaneously. Press and toolings can therefore be protected effectively. Hydraulic pressure of the system can be rebuilt by pushing the reset button. Then, normal operation can be resumed by inching the slide to T.D.C position.

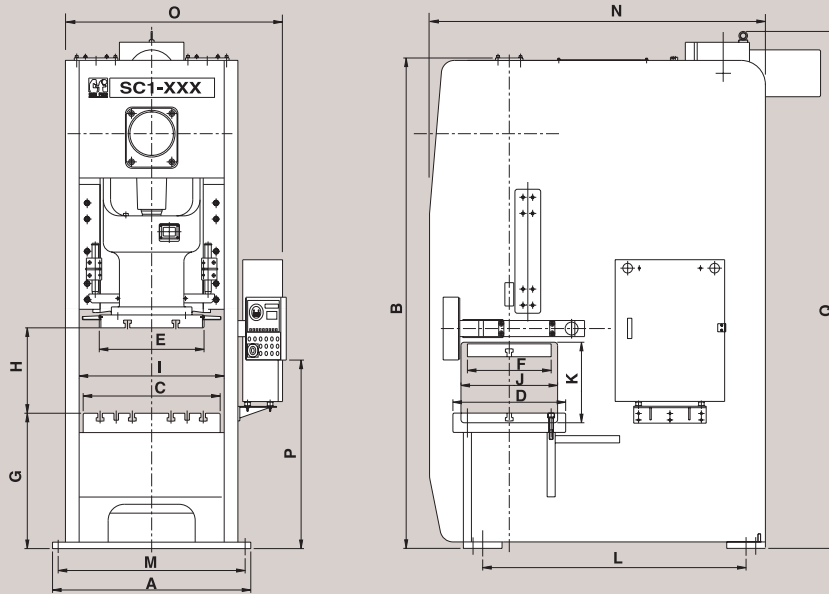
### Box Type Six-Point Gib

One-piece, box type gibs assure accurate slide guiding. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.

### Bolt-to-The-Bolster Die Cushion.

No Pit Required and Ease of Maintenance.

## OUTLINE DIMENSIONS



unit: mm

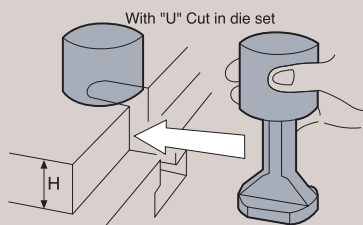
MODEL	SC1-80			SC1-110			SC1-160				SC1-200				SC1-260				SC1-300	
	S	H	L	S	H	L	S	H	L	XL	S	H	L	XL	S	H	L	XL	XL	
A	1230			1365			1500				1760				1910				2260	
B	2820	2880		2980	3045		3410	3545		3710	3780	3845	3855		4240	4325	4390		4525	
C	750			900			1000				1150				1300				1600	
D	460	600		520	700		580	750			650	850		700	900		1000			
E	560			650			700				850				920				1400	
F	460			520			580				650				700				900	
G	833	853	833	840	860	840	915	940	915		1020	1047.5	1020		1100	1140	1100		1210	
H	400	360	490	430	390	530	480	430	650	700	560	505	650	700	640	560	750	840	850	
I	820			940			1050				1200				1350				1660	
J	510	650		570	750		630	800			700	900		750	950		1100			
K	430	460		470	500		510	560	610		570	610		620	660	700		750		
L	1260	1305		1455	1530		1625	1710			1825	1925		1930	2030		2125			
M	1040			1175			1310				1560				1690				2030	
N	1730	1800		1950	2040		2205	2290			2490	2590		2655	2755		2945			
O	1341			1481			1611				1781				1971				2375	
P	1426	1456		1430	1495		1565	1425	1430		1468	1543		1575	1630		1610			
Q	2918	2978		3240	3290		3495	3632	3625		3910	3975	4040		4392	4457	4550		4660	

(For reference only. Select the items below properly as needed.)

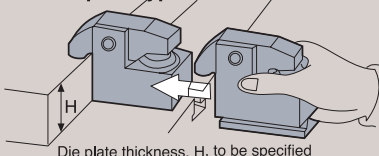
## Quick Die Change System (Q. D. C. S.)

Option	Qty	Model	SC1-80		SC1-110		SC1-160		SC1-200		SC1-260		SC1-300	
			S	H	L	S	H	L	S	H	L	S	H	L
Die Clamp	Upper	TX-4 or TY-4	Clamping Force		4 tons/pc		4	4		4		6		
		TX-6 or TY-6	Clamping Force		6 tons/pc			4		4		6		
		TX-2 or TY-2	Clamping Force		2 tons/pc			4						
Die Clamp	Lower	TX-4 or TY-4	Clamping Force		4 tons/pc		4	4						
		TX-6 or TY-6	Clamping Force		6 tons/pc					4		6		
		DL28-400	Pay Load		1.1 tons/pc		2							
Die Lifter		DL28-500	Pay Load		1.2 tons/pc			2	2					
		DL28-600	Pay Load		1.4 tons/pc			2			2			
		DL28-700	Pay Load		1.5 tons/pc				2	2				
		DL28-800	Pay Load		1.6 tons/pc					2	2			
		DL28-900	Pay Load										2	
Die Arm		RC-700-600	Pay Load		600 kg/pc		2	2						
		RC-800-800	Pay Load		800 kg/pc			2						
		RC-900-900	Pay Load		900 kg/pc					2		2		
		RC-1000-1600	Pay Load									2		
Hydraulic Power Unit FP6308U											1			

### Die Clamp TX-type



### Die Clamp TY-type





## BOLSTER

Fig.1

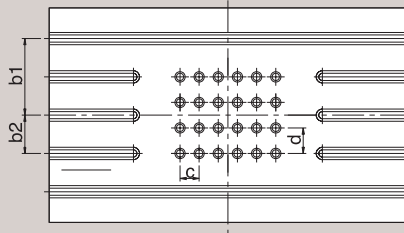


Fig.2

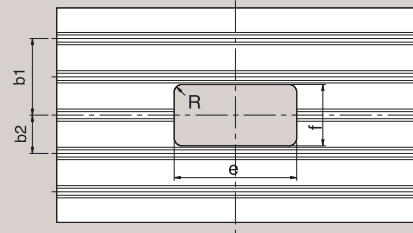


Fig.3

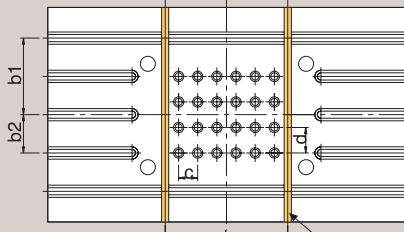
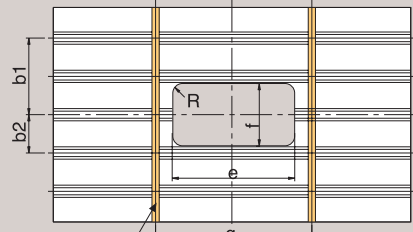


Fig.4

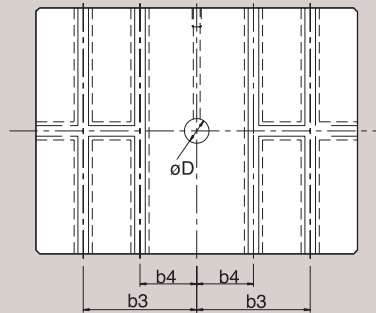


with "U"slot for die Lifter

unit: mm

MODEL	SC1-80	SC1-110	SC1-160	SC1-200	SC1-260	SC1-300
Type of T-Slot	A	B	B	B	B	B
No. of T-Slot	3	3	3	5	5	5
No. of Pin Hole x Dia.	20 x $\phi 20^{+0.5}_{+0.1}$	20 x $\phi 28^{+0.5}_{+0.1}$	24 x $\phi 28^{+0.5}_{+0.1}$	30 x $\phi 28^{+0.5}_{+0.1}$	35 x $\phi 28^{+0.5}_{+0.1}$	35 x $\phi 28^{+0.5}_{+0.1}$
c x d	75 x 75	90 x 90	90 x 90	100 x 100	100 x 100	100 x 100
b1	150	200	225	265	300	300
b2	-	-	-	115	150	150
e x f	340 x 170	400 x 200	440 x 220	480 x 240	520 x 260	560 x 280
R	30	30	30	30	30	30
g	410	480	520	580	620	680
h	370	450	360	400	500	680

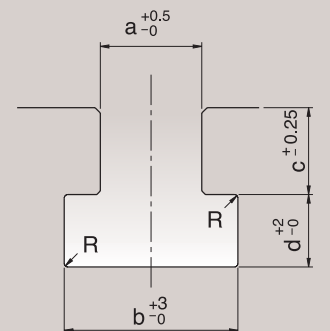
## SLIDE PLATE



unit: mm

MODEL	SC1-80	SC1-110	SC1-160	SC1-200	SC1-260	SC1-300
Slide Plate Area (LRxFB)	560x460	650x520	700x580	850x650	920x700	1400x900
Type of T-Slot	A	B	B	B	B	B
No. of T-Slot	2	2	4	4	4	4
Shank Hole Dia. D	$\phi 50$	$\phi 50$	$\phi 65$	$\phi 65$	$\phi 65$	$\phi 65$
b3	150	150	300	300	300	450
b4	-	-	150	150	150	150

## T-slot Detail



unit: mm

Dim.	Type	A	B	C
a		22	28	18
b		37	48	30
c		24	28	18
d		16	20	12
R		1	1	1

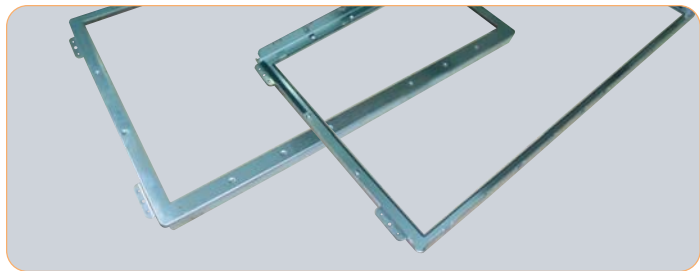
## Standard Functions / Accessories

## Optional Functions / Accessories

- Dual Run Pushbutton Operating T-stand
- HMI Operation Panel
  - Electronic Crank Angle LED Display
  - Electronic S.P.M LED Display
  - LCD type Press Status Monitor
- Operation Mode Selection
  - Off/Inching/Safety One Stroke/Continuous
- Hydraulic Overload Protector (H.O.L.P.)
- Overrun Detector (Brake Monitor)
- Door interlocking power isolation switch
- Dual-coiled Solenoid valve
- Motorized Slide Adjustment
- Main Motor Reversing Circuit
- VFD-variable frequency drive
- Inverter & main motor reversing circuit
- Digital Die Height Indicator (unit:0.1mm)
- Manual Grease Pump
- Total Counter, 6 digits
- Preset Counter, 6digits
- Maintenance Counter, 4 digits (Unit:10K)
- Life Counter 10 digits
- Electronic Rotary Cam Switch (6 spare channel)
- Air Ejector, 3/8" one channel
- Air Source Receptacle, 3/8"one channel
- Misfeed Detection Consent
- Power Receptacle (available only for single phase, 110V power source wiring by user)

- Pendant Control Panel, APC-6000 Sreies
- Die Cushion
- Eddy curren drive V.S. Motor
- Slide Knockout Device
- Motorized Grease
- Lubrication System.
- Safety Block With plug
- Dual Valve Solenoid with Detector
- Scrap Chopper Counter, 3 digits
- Flywheel Brake

- Power Take-off Shaft
  - Left- hand-side Frame Extension (Feed Direction: Left to Right)
- Quick Die Change System
  - Upper Die Clamps
  - Lower Die Clamps
  - Die Lifters • Die Arms
- Anchor Bolts & Foundation Plates
- Anti-Vibration Pad
- Anti-vibration Rubber mounts
- Die area Light



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