



INNOVATION, SERVICE, COMMITMENT

沖壓機械專業製造廠

金豐機器工業股份有限公司

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OCP

C-Frame Single Crank Power Presses

C型シングルクランクプレス

25. 35. 45. 60. 80. 110. 160. 200. 260 ton



OCP C-Frame Single Crank Power Presses

C型シングルクランクプレス



加工品質を向上
騒音及び振動を減少
操作性がよい
便利性及び安全性を向上

Improve Stamping Quality
Reduce Noise & Vibration
Increase Operability
Improve Comfort & Safety

最小のダイハイト変位量
金型寿命の大幅アップ
最小のフレーム変位量
偏心荷重に強い
自動化に適用

Reduce Variation of Die Height
Prolong Toolings' Life
Minimize Frame Deflection
Increase Permissible Off-center Load
Easy to Adapt Various Press Automations

湿式クラッチブレーキ
固定式六面ガイド
高剛性フレーム
最小の総合すきま

High Performance Wet Type Clutch/Brake
High Precision 6-Point Centered Gibs
Super Rigid Steel Frame
Reduced Total Clearance

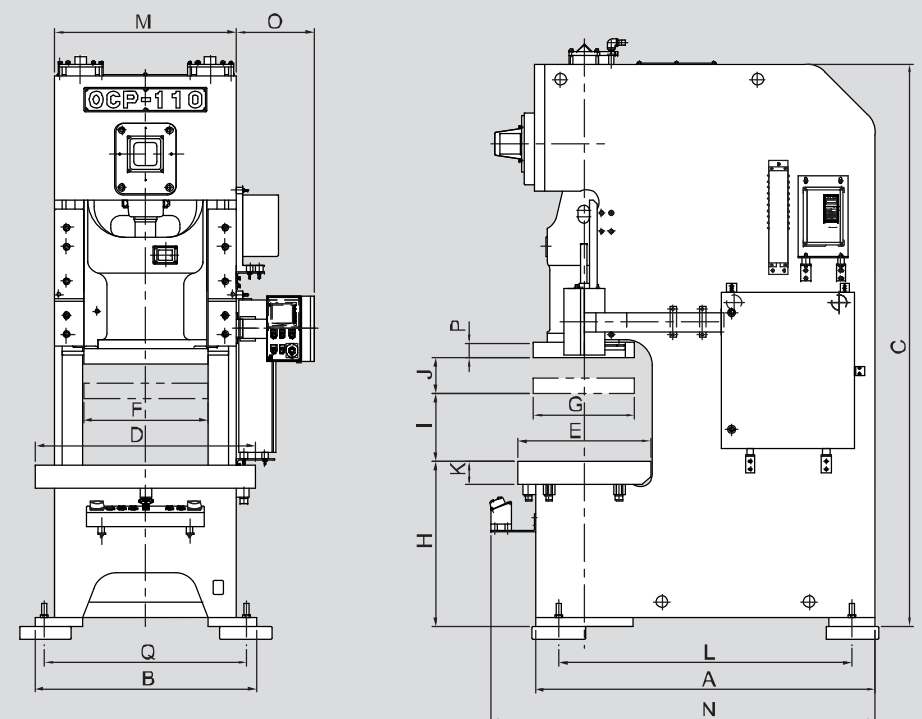
SPECIFICATIONS 仕様

MODEL 機種 TYPE 型 式			OCP-25		OCP-35		OCP-45		OCP-60		OCP-80		OCP-110		OCP-160		OCP-200		OCP-260																													
			E																																													
			S	H	L	S	H	L	S	H	L	S	H	L	S	H	L	S	H	L	S	H	L																									
Capacity 能 力	Tons	25	35		45		60		80		110		160		200		260																															
Rated tonnage point (above B.D.C.) 能力発生点	mm	3.2	2.3	3.2	3.2	2.3	3.2	3.2	2.3	3.2	4	2.3	4	5	3.2	5	5	3.2	5	6	4	6	6	4	6																							
Stroke length ストローク長さ	mm	50	40	80	60	40	90	70	50	110	80	50	130	100	60	150	110	70	180	130	80	200	150	100	200	180	100	250																				
Strokes per minute ストローク数	Fixed 固定	S.P.M.	-		90		-		80		-		70		-		60		80		100		60		70		90		50		60		80		45		50		65		35		45		55		30	
	Variable 変速	S.P.M.	80-140	80-180	70-110	70-130	80-170	80-120	80-180	50-85	55-110	70-150	40-75	50-100	60-140	40-75	40-90	60-90	30-65	35-70	60-100	20-60	35-70	45-65	25-50	30-60	35-75	20-40																				
Die height (S.D.A.U.) ダイハイト	mm	245	250	230	250	260	235	290	300	270	325	340	300	355	375	330	385	405	350	435	460	400	475	500	450	485	525	450																				
Slide area (L.R. x F.B.) スライド面積	mm	350x300		380x320		430x350		500x400		560x460		650x520		700x580		850x650		920x700																														
Bolster area (L.R. x F.B.) ボルスター面積	mm	720x320		780x340		850x440		900x520		1000x600		1150x680		1250x760		1400x820		1550x840																														
Bolster thickness ボルスター厚さ	mm	70		70		90		90		100		120		150		160		180																														
Slide adjustment スライド調整量	mm	50		50		60		70		80		90		100		110		120																														
Main motor (HP x p) 主電動機	HPxp	5x4		5x4		7.5x4		7.5x4		7.5x4		10x4		15x4		20x4		20x4																														
Slide adjusting motor スライド調整モーター	HPxp	Manual		Manual		Manual		0.5(0.4 kW)x4		0.5(0.4 kW)x4		0.5(0.4 kW)x4		1(0.75 kW)x4		1(0.75 kW)x4		2(1.5 kW)x4																														
Working height 作業面高さ	mm	800		800		800		800		830		845		915		1020		1120																														
Slide plate thickness スライド厚さ	mm	50		50		60		70		70		80		90		90		100																														
Maximun upper die weight 最大上型重さ	kg	260		300		300		300		345		450		540		800		800																														
Die cushion ダイクッション																																																
Capacity 能 力	ton	-		-		2.6		3.6		6.3		8		10		14		14																														
Pad area (L.R. x F.B.) パッド面積	mm	-		-		335x230		350x235		410x260		500x300		540x350		640x470		740x470																														
Stroke ストローク	mm	-		-		60		70		70		80		80		100		100																														



1

OUTLINE DIMENSIONS
外型寸法



unit: mm

MODEL 機種	OCP-25	OCP-35	OCP-45	OCP-60	OCP-80	OCP-110	OCP-160	OCP-200	OCP-260
TYPE 型式	S H L	S H L	S H L	S H L	S H L	S H L	S H L	S H L	S H L
A	1050	1153	1308	1402	1565	1745	1870	2115	2165
B	750	816	846	906	1025	1160	1280	1445	1630
C	2070	2160	2300	2505	2655	2885	3250	3625	3950
D	720	780	850	900	1000	1150	1250	1400	1550
E	320	340	440	520	600	680	760	820	840
F	350	380	430	500	560	650	700	850	920
G	300	320	350	400	460	520	580	650	700
H	800	800	800	800	830	845	915	1020	1120
I	245 250 230	250 260 235	290 300 270	325 340 300	355 375 330	385 405 350	435 460 400	475 500 450	485 525 450
J	50 40 80	60 40 90	70 50 110	80 50 130	100 60 150	110 70 180	130 80 200	150 100 200	180 100 250
K	70	70	90	90	100	120	150	160	180
L	830	933	1068	1186	1325	1505	1560	1800	1850
M	590	630	654	730	825	950	1070	1205	1350
N	1280	1383	1538	1632	1795	1975	2100	2340	2395
O	408	408	408	408	408	408	408	408	408
P	50	50	60	70	70	80	90	90	100
Q	680	746	756	830	935	1060	1180	1325	1500

Standard Functions / Accessories

- Fixed Type Operation Stand

■ E-Series Control System
 - ・ Electronic Crank Angle Display
 - ・ Electronic SPM Display
 - ・ LCD type Press status monitor

■ Operation Mode Selection
 - Off / Inching / Safety One Stroke / Continuous

■ Hydraulic Overload Protector (H.O.L.P)

■ Overrun Detector

■ Dual-coiled Solenoid Valve
- Motorized Slide Adjustment (above 60-260ton)

■ Die Height Indicator (Unit:0.1mm)

■ Motorized Grease Lubrication Device

■ Air Ejector, 3/8"

■ Air Source Receptacle, 3/8"

■ Life Counter 10 digits

■ Electronic Rotary Cam Switch, 6 spare channel

■ Inverter & Main Motor Reversing Circuit Device

■ Door interlocking power isolation switch
- 固定式両手押しボタン操作盤

■ Eシリーズコントロールシステム (HMI操作盤付きPLC)
 - ・ 電子式クランク角度指示計
 - ・ 電子式運転スピード指示計
 - ・ 運転状態LCD監視装置

■ 運転モードの選択
 - 切 / 寸動 / 安全工程 / 連続

■ 油圧オーバーロード保護装置

■ 二度落ち検知回路

■ ダブルソレノイドバルブ

■ 電動式スライド調整装置 (60トン以上)
- ダイハイト指示計 (単位0.1mm)

■ 電動式グリース潤滑装置

■ エアエジェクタ3/8"

■ エアソース3/8"

■ 寿命カウンター 10桁

■ 電子式ロータリカムスイッチ 予備6連

■ インバーター及びメインモーター正逆転装置

■ 制御盤遮断外部操作ハンドル

標準付属品

BOLSTER
ボルスター

Fig. 1

図面一

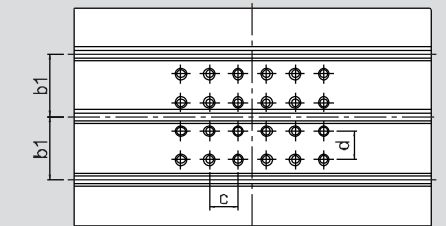


Fig. 2

図面二

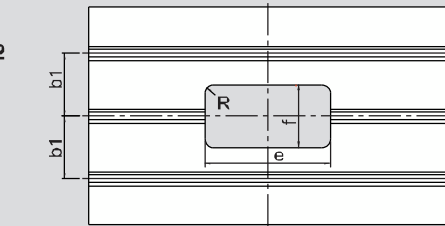


Fig. 3

図面三

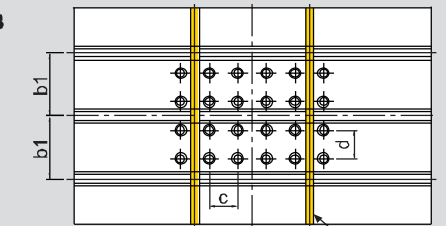
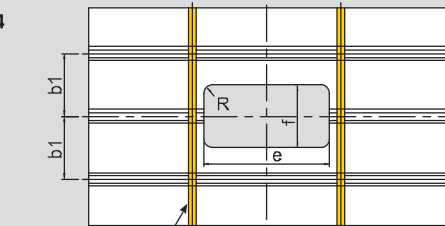


Fig. 4

図面四



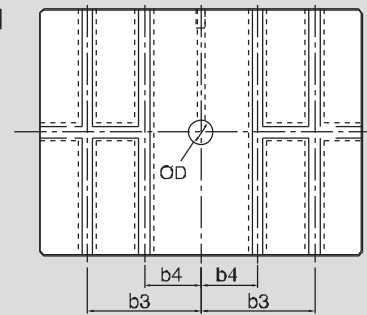
with "U" slot for die lifter
(ダイリフター用 "U" 溝含む)

unit: mm

MODEL 機種	OCP-25	OCP-35	OCP-45	OCP-60	OCP-80	OCP-110	OCP-160	OCP-200	OCP-260
Type of T-Slot T 溝型番	C	C	C	A	A	B	B	B	B
No. of T-Slot T 溝数	3	3	3	3	3	3	3	3	5
No. of Pin Hole x Dia. ダイクッションホール数 x ビス穴	-	-	15 x $\phi 20^{+0.5}_{-0.1}$	15 x $\phi 20^{+0.5}_{-0.1}$	24 x $\phi 20^{+0.5}_{-0.1}$	24 x $\phi 20^{+0.5}_{-0.1}$	24 x $\phi 20^{+0.5}_{-0.1}$	24 x $\phi 20^{+0.5}_{-0.1}$	24 x $\phi 20^{+0.5}_{-0.1}$
c x d	-	-	75 x 85	75 x 100	75 x 75	90 x 90	100 x 100	110 x 110	120 x 120
b1	120	120	150	150	150	200	220	280	290
e x f	260 x 130	280 x 140	300 x 150	320 x 160	360 x 180	400 x 200	440 x 220	480 x 240	520 x 260
R	20	20	20	20	30	30	30	40	40
g	400	400	420	420	480	530	520	550	600
h	-	-	360	370	480	530	400	460	500

SLIDE PLATE
スライドプレート加工図

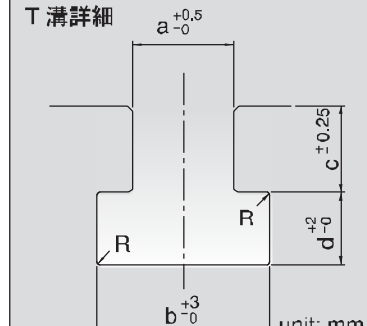
Slide Plate Area (スライドプレート加工図)



unit: mm

MODEL 機種	OCP-25	OCP-35	OCP-45	OCP-60	OCP-80	OCP-110	OCP-160	OCP-200	OCP-260
Slide Plate Area (スライドプレート加工図)	350x300	380x320	430x350	500x400	560x460	650x520	700x580	850x650	920x700
Type of T-Slot T 溝型番	C	C	C	A	A	B	B	B	B
No. of T-Slot T 溝数	2	2	2	2	2	2	4	4	4
Shank Hole Dia. D シャンク穴	$\phi 38$	$\phi 38$	$\phi 38$	$\phi 50$	$\phi 50$	$\phi 50$	$\phi 65$	$\phi 65$	$\phi 65$
b3	120	100	142.5	125	150	150	300	300	300
b4	-	-	-	-	-	-	150	150	150

T-Slot Detail
T 溝詳細



unit: mm

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

Optional Functions / Accessories

- ・ Die Cushion
- ・ Photoelectric Safety Device
- ・ Upper Slide Knockout Device
- ・ Portable 2-hand Pushbutton T-stand
- ・ Safety Block with plug
- ・ Power Receptacle (Single phase, 110V / 220V power source wiring by user)
- ・ Power Take-off Shaft (Crankshaft Front-end Extension)
- ・ Quick Die Change System
- ・ Anti-Vibration Press Mounts
- ・ Die Area Light
- ・ Main Motor Reversing Circuit Device

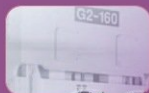
オプション

- ・ ダイクッション
- ・ 光線式安全装置
- ・ スライドノックアウト装置
- ・ ポータブル両手操作盤
- ・ 安全プラグ及び安全ブロック
- ・ 電源コンセント110V / 220V単相 (電源はお客様手配とする)
- ・ 自動化取出軸 (クランク前端タイプ)
- ・ 金型交換装置 (Q.D.C.S.)
- ・ 防振装置
- ・ ダイライト
- ・ メインモーター逆転装置



C-Frame

Double Crank Power Presses



110. 160. 200. 250. ton

G2

**C-Frame
Double Crank Power Presse**

Productivity

Reliability

Profitability

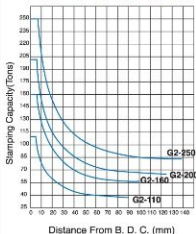
CALSON FORGING



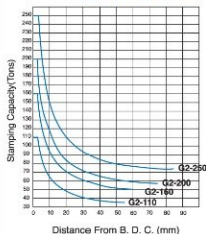
SPECIFICATIONS

Model		G2-110		G2-160		G2-200		G2-250	
Type		V	H	V	H	V	H	V	H
Capacity	Tons	110		160		200		250	
Rated Tonnage Point (Above B.D.C.)	mm	5	3	6	3	6	3	7	3.5
Stroke Length	mm	180	110	200	130	250	150	280	170
Strokes Per Minute	S.P.M.	35-65	50-100	30-55	40-85	25-45	35-70	20-35	30-60
Die Height (S.D.A.U.)	mm	400	350	450	400	500	450	550	450
Maximum Upper Die Weight	kg	800		1270		1470		1560	
Slide Adjustment	mm	100		100		120		120	
Bolster Area (L.R. x F.B.)		1800 x 650		2000 x 760		2400 x 840		2700 x 900	
Bolster Thickness	mm	130		150		160		160	
Slide Plate Area (L.R. x F.B.)	mm	1400 x 500		1600 x 550		1850 x 650		2100 x 700	
Slide Plate Thickness	mm	70		70		95		95	
Shank Hole	mm	Ø50 x 3 x Pitch 320		Ø50 x 3 x Pitch 350		Ø50 x 3 x Pitch 375		Ø50 x 3 x Pitch 450	
Main Motor	HP x P	10 x 6		15 x 6		20 x 6		25 x 6	
	KW x P	7.5 x 6		11 x 6		15 x 6		19 x 6	
Slide Adjusting Motor	HP x P	1 x 4		1 x 4		2 x 4		2 x 4	
	KW x P	0.75 x 4		0.75 x 4		1.5 x 4		1.5 x 4	
Air Supply Requirement	Kg/cm ²	5		5		5		5	
Precision		JIS (CNS) First Class							
Die Cushion		2 - Pad - 2 - Cylinder							
Capacity	Tons	3.6 x 2		6.3 x 2		10 x 2		14 x 2	
Air Pressure	Kg/cm ²	6.5		7.2		6.75		9	
Stroke	mm	70		70		80		100	
Pad Area (L.R. x F.B.)	mm	350 x 235 x 2pcs		410 x 260 x 2pcs		540 x 350 x 2pcs		640 x 470 x 2pcs	

Stroke-Capacity Diagram (V)



Stroke-Capacity Diagram (H)

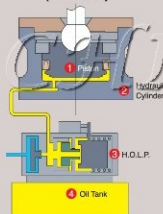


High Performance Wet Clutch & Brake

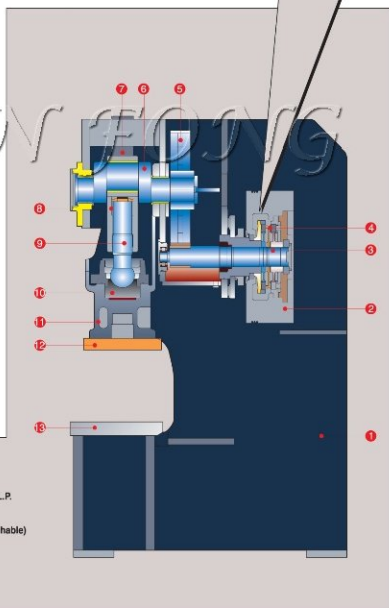
The CHIN FONG clutch delivers high torque at relatively low air pressure, and with a low moment of inertia. Modern, sintered clutch and brake friction linings combine high performance with low vibration and noise. The linings run in an enclosed oil bath, providing very efficient heat dissipation. Together, 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.

Highly Responsive

Hydraulic Overload Protector (H.O.L.P.)

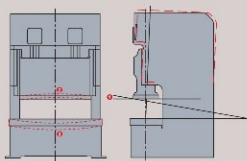


Highly responsive, with an immediate oil dump feature and a unique dual-valve/pressure switch arrangement, Chin Fong fast-acting H.O.L.P. relieves the pressure of a tonnage overload in milliseconds, and helps protect both press and tooling. If an overload occurs, even on just one side of the press, oil pressure in the cylinder is released and, simultaneously, the press stops. This reliable system can be quickly and easily reset by inching the slide back to top dead center, which automatically reactivates the pump and builds up hydraulic pressure to the pre-overload setting, and allows resumption of normal operation.



- | | |
|----------------------------|------------------------------|
| 1. Frame | 8. Connecting Rod |
| 2. Flywheel | 9. Adjusting Screw |
| 3. Pinion Shaft | 10. Chamber of H.O.L.P. |
| 4. Wet Type Clutch & Brake | 11. Slide |
| 5. Main Gear | 12. Slide Plate (detachable) |
| 6. Crank Shaft | 13. Bolster |
| 7. Counter Balancer | |

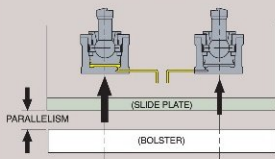
Super Rigid Steel Frame



The CHIN FONG G2 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 designed to provide a stable base for the G2 Series presses.

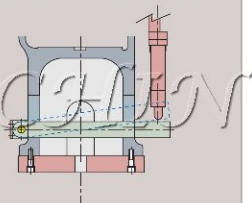
Parallelism Maintained During

Offset Loads



If unequal loads are applied across the slide, full oil pressure from the overload system is applied where required to retain the parallelism between slide plate and bolster for consistent quality of pressings and extended tooling life.

Unique Slide Knockout Device



The slide plate is separated from slide. This design can vary according to the request of customers for employing slide knockout device, either mechanical or air cylinder type as option.

Extra Long, Precise, Six-Point,

Centered Box Type Gibbing



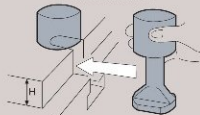
One-piece, full-length, box type centered gibs assure actuated slide guiding, and provide better control of slide alignment than rear-mounted gibs. Force is delivered vertically, minimizing lateral thrust and, consequently reducing off-center loading and friction in the gibs. Clearance settings (front to back and left to right) are accomplished by push-pull type screws, and maintained to factory tolerances by the use of laminated spacers.

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

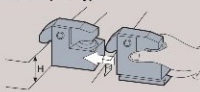
Quick Die Change System (Q. D. C. S.)

Die Clamp TX-type

With "U" Cut in die set



Die Clamp TY-type



Die plate thickness, H, to be specified

Option		Qty	Model	G2-110	G2-160	G2-200	G2-250
Die Clamp	Upper	TX-2 or TY-2	Clamping Force 2 tons/pc				
		TX-4 or TY-4	Clamping Force 4 tons/pc	8	8	8	8
		TX-6 or TY-6	Clamping Force 6 tons/pc				
	Lower	TX-2 or TY-2	Clamping Force 2 tons/pc				
		TX-4 or TY-4	Clamping Force 4 tons/pc	8	8	8	8
		TX-6 or TY-6	Clamping Force 6 tons/pc				
Die Lifter	DL28-600		Pay Load 1.4 tons/pc	4			
	DL28-700		Pay Load 1.5 tons/pc		4		
	DL28-800		Pay Load 1.6 tons/pc			4	
	DL28-900		Pay Load 1.8 tons/pc				4
Die Arm	RC-700-600		Pay Load 600 kg/pc	4	4		
	RC-800-800		Pay Load 800 kg/pc				
	RC-900-900		Pay Load 900 kg/pc			4	4
Hydraulic Power Unit FP6308U					1		

BOLSTER

Fig. 1



Fig. 3 (with "u"slot for die lifter)



Fig. 2

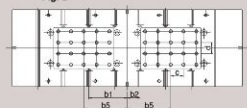
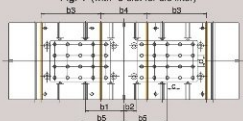


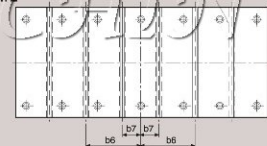
Fig. 4 (with "u"slot for die lifter)



unit: mm

MODEL	G2-110	G2-160	G2-200	G2-250
Bolster Area (LR x FB)	1800 x 650	2000 x 760	2400 x 840	2700 x 900
Type of T-Slot	A	A	B	B
No. of T-Slot	6	8	8	8
b1	375	375	375	450
b2	125	125	125	150
b3	320	520	710	680
b4	430	520	520	540
b5	255	415	455	510
Fig 2, Fig 4	No. of Pin Hole x Dia.	30 x Ø20 ± 0.1	48 x Ø20 ± 0.1	48 x Ø28 ± 0.1
	c x d	75 x 100	75 x 75	100 x 100

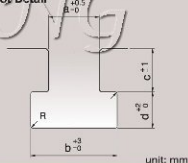
SLIDE PLATE



unit: mm

MODEL	G2-110	G2-160	G2-200	G2-250
Slide Plate Area (LR x FB)	1400 x 500	1600 x 550	1850 x 650	2100 x 700
Type of T-Slot	A	A	B	B
No. of T-Slot	4	6	6	6
b6	375	375	375	450
b7	125	125	125	150

T-Slot Detail



unit: mm

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

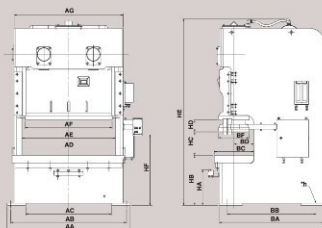
Standard Functions / Accessories

- Fixed Type Operation Stand
- Touch Screen LCD Control Panel
 - Multiple Language Selection
 - Crank Angle / S.P.M. Display
 - Parameters Setup And Status Monitor
- Operation Mode Selection
 - Off / Inching / Safety One Stroke / Continuous
- Hydraulic Overload Protector (H.O.L.P.)
- Overrun Detector (Brake Monitor)
- Power Shut-off Switch for Electrical Cabinet Door Opening
- Dual-safety Solenoid Valve
- Provision For Light Curtain
- Digital Die Height Indicator (unit:0.1mm)
- Total Counter, 6 digits
- Preset Counter, 6 digits
- Maintenance Counter, 4 digits (unit:10K)
- Life Counter, 10 digits
- Cut Counter, 3 digits
- Electronic Rotary Cam Switch (6 spare channel)
- Air Ejector, 3/8", one channel
- Misfeed Detection Consent
- Motorized Slide Adjusting Device
- Inverter with main motor reversing circuit
- Manual Grease pump
- Power Receptacle (available only for single phase, 110V power source)

Optional Functions / Accessories

- Die Cushion
- Eddy current V. S. Motor (APC only)
- Slide Knockout Device
- Safety Light Curtain
- Motorized Grease Pump
- Portable T- Stand Two-hand "RUN" Pushbutton Panel
- Dual Valve with Detector
- Flywheel Brake
- Power Take-off Shaft
 - Crankshaft Front-end Extension
 - Left-hand-side Frame Extension (Feed Direction: Left to Right)
- Quick Die Change System
 - Upper
 - Lower Die Clamps
 - Die Lifters
 - Die Arms
- Anchor Bolts & Foundation Plates
- Anti-vibration Rubber mounts
- Die area Light

OUTLINE DIMENSIONS



unit: mm

MODEL	G2-110		G2-160		G2-200		G2-250	
TYPE	V	H	V	H	V	H	V	H
AA	2000		2200		2620		3000	
AB	1900		2080		2460		2800	
AC	1360		1520		1820		2200	
AD	1800		2000		2400		2700	
AE	1510		1660		1990		2230	
AF	1400		1600		1850		2100	
AG	1780		1980		2320		2590	
BA	1745		1940		2165		2470	
BB	1295		1380		1815		2120	
BC	650		760		840		900	
BD	330		385		425		455	
BE	500		550		650		700	
HA	(595)		(655)		(755)		(785)	
HB	830		950		1060		1090	
HC	400	350	450	400	500	450	550	450
HD	160	110	200	130	250	150	280	170
HE	3220	3135	3660	3575	3960	3860	4335	4180
HF	1170		1330		1500		1610	
Øh	Ø35		Ø47		Ø54		Ø54	



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MALAYSIA: CHIN FONG MACHINE (M) SDN BHD

TEL: +60-3-3290-6827-8 FAX: +60-3-3290-6830



C-Frame Single Crank Power Presses

Variable Slide Stroke



- Improve Stamping Quality
- Reduce Noise & Vibration
- Increase Operability
- Improve Comfort & Safety In Pressworking

- Reduce Variation of Die Height
- Prolong Toolings' Life
- Minimize Frame Deflection
- Increase Permissible Off-center Load
- Reduce Noise & Vibration
- Easy to Adapt Various Press Automations

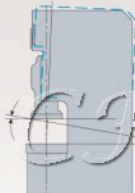
- High Performance Wet Type Clutch/Brake with Auto-forced Air Cooling
- Extra Long 6-Point Centered Gibs
- Super Rigid Steel Frame
- Multi-Function Press Control
- Variable Slide Stroke

80. 110. 160. 200 ton

SPECIFICATIONS

MODEL	TYPE	GRM-80	GRM-110	GRM-160	GRM-200
Capacity	Ton	80	110	160	200
Rated tonnage point (above B.D.C.)	mm	5	5	6	6
Stroke length	mm	20~120	20~140	20~160	20~180
Strokes per minute	Fixed	60	50	45	35
	Variable	40~75	30~65	25~50	20~45
Die height (S.D.A.U.)	mm	350~400	370~430	440~510	450~530
Slide adjustment	mm	80	90	100	110
Bolster area (L.R. x F.B.)	mm	1000 x 600	1150 x 680	1250 x 760	1400 x 820
Slide area (L.R. x F.B.)	mm	560 x 460	650 x 520	700 x 580	850 x 650
Main motor	Fixed	7.5 x 4	10 x 4	15 x 4	20 x 4
	Variable	VS 10 x 4	VS 15 x 4	VS 15 x 4	VS 20 x 4
Slide adjusting motor	Kw x p	0.4 x 4	0.4 x 4	0.75 x 4	0.75 x 4
Die Cushion	Capacity	ton	6.3	8	14
	Pad area (L.R. x F.B.)	mm	410 x 260	500 x 300	540 x 350
	Stroke	mm	70	80	80
Machine dimension	Width L.R.	mm	1120	1240	1360
	Depth F.B.	mm	2170	2277	2680
	Height H.	mm	3000	3270	3645

Super Rigid Steel Frame



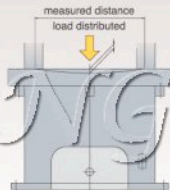
The Chin Fong GRM Series is designed to resist deflection, and provide accurate pressings and longer die life, even at full tonnage loads. The heavy, one-piece welded steel frame is fully stress relieved and designed to provide a stable base for the GRM Series presses.

Box Type Six-Point Gib



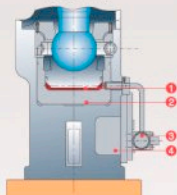
One-piece, full-length, box type gibs assure actuated slide guiding. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.

Minimize Frame Deflection



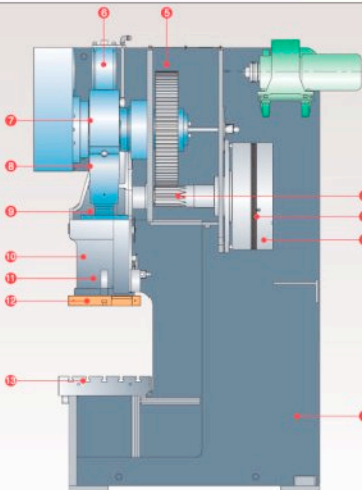
Highly Responsive

Hydraulic Overload Protector (H.O.L.P.)



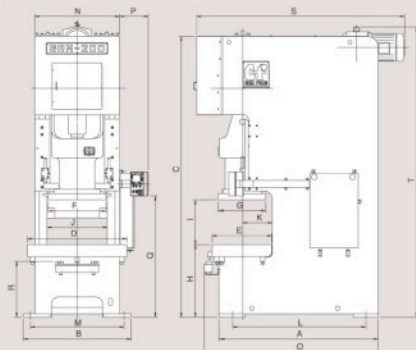
1. Piston
2. Hydraulic Overload Protector Cylinder
3. H. O. L. P.
4. Oil Tank

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 reset button. Press, then, resume normal operation when inching the slide up to TDC position.



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. Hydraulic Overload Protector
10. Slide
11. Slide Knockout
12. Slide Plate (Detachable)
13. Bolster

OUTLINE DIMENSIONS



unit: mm

MODEL	GRM-80	GRM-110	GRM-160	GRM-200
A	1565	1770	2000	2225
B	1120	1240	1360	1520
C	2960	3120	3580	3950
D	1000	1150	1250	1400
E	600	680	760	820
F	560	650	700	850
G	460	520	580	650
H	930	835	915	1020
I	400	430	600	630
J	598	680	750	850
K	310	350	390	420
L	1305	1530	1700	1875
M	930	1050	1270	1320
N	830	950	1075	1195
O	1772.5	1977.5	2207.5	2432.5
P	405	405	403.5	405.5
Q	1340	1385	1645	1705
R	663	650	695	785.3
S	2170	2277	2680	2909.8
T	3000	3270	3645	4085

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

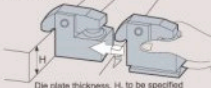
Quick Die Change System (Q. D. C. S.)

Option		Qty	Model	GRM-80	GRM-110	GRM-160	GRM-200
Die Clamp	Upper	TX-2 or TY-2	Clamping Force 2 tons/pc				
		TX-4 or TY-4	Clamping Force 4 tons/pc	4	4		
		TX-6 or TY-6	Clamping Force 6 tons/pc			4	4
	Lower	TX-2 or TY-2	Clamping Force 2 tons/pc				
		TX-4 or TY-4	Clamping Force 4 tons/pc	4	4	4	
		TX-6 or TY-6	Clamping Force 6 tons/pc				4
Die Lifter		DL28-400	Pay Load 1.1 tons/pc	2			
		DL28-500	Pay Load 1.2 tons/pc		2		
		DL28-600	Pay Load 1.4 tons/pc	2		2	2
		DL28-700	Pay Load 1.5 tons/pc			2	
		DL28-800	Pay Load 1.6 tons/pc				2
		DL28-900	Pay Load 1.8 tons/pc				
Die Arm		RC-700-800	Pay Load 600 kg/pc	2	2		
		RC-800-800	Pay Load 800 kg/pc			2	
		RC-900-800	Pay Load 900 kg/pc				2
		Hydraulic Power Unit	FP6308U			1	

Die Clamp TX-type



Die Clamp TY-type



BOLSTER

Fig. 1

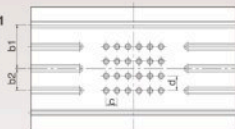


Fig. 2

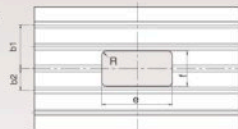


Fig. 3

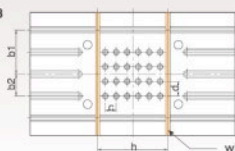
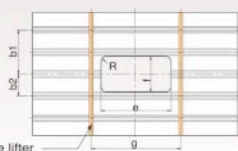


Fig. 4

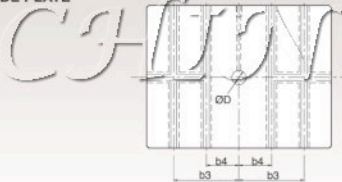


with "U" slot for die lifter

unit: mm

MODEL	GRM-80	GRM-110	GRM-160	GRM-200
Type of T-Slot	A	B	B	B
No. of T-Slot	3	5	5	5
No. of Pin Hole x Dia.	24 x $\phi 20^{+0.3}_{-0.1}$	24 x $\phi 28^{+0.5}_{-0.1}$	24 x $\phi 28^{+0.5}_{-0.1}$	35 x $\phi 28^{+0.5}_{-0.1}$
c x d	75 x 75	90 x 90	100 x 100	100 x 100
b1	150	250	300	300
b2	-	150	150	150
e x f	360 x 180	400 x 200	440 x 220	480 x 240
R	30	30	30	30
g	480	480	520	560
h	440	530	580	680

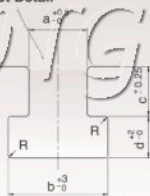
SLIDE PLATE



unit: mm

MODEL	GRM-80	GRM-110	GRM-160	GRM-200
Slide Plate Area (LR x FB)	560x460	650x520	700x580	850x650
Type of T-Slot	A	B	B	B
No. of T-Slot	2	2	4	4
Shank Hole Dia. D	$\phi 50$	$\phi 50$	$\phi 65$	$\phi 65$
b3	150	150	300	300
b4	-	-	150	150

T-Slot Detail



unit: mm

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



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C型單曲軸沖床 C-Frame Single Crank Power Presses

行程可調/手動、自動
Variable Slide Stroke

80. 110. 160. 200 ton

GRM/GRA

C型單曲軸沖床 C-Frame Single Crank Power Presses

行程可調 Variable Slide Stroke



高精度加工的实现
 低噪音的实现
 便利性操作的实现
 模高变化小・动态中心偏差小
 模具寿命大幅提升
 冲床之变形量小
 下料剪断噪音小
 简单明瞭之操作面板・
 操作设定容易
 行程长度可调整
 高扭矩湿式离合器制动器
 高精度六面导路
 高刚性机身
 电子式角度控制器
 触控式人机操作介面

Improve Stamping Quality
 Reduce Noise & Vibration
 Increase Operability
 Improve Comfort & Safety In Pressworking
 Reduce Variation of Die Height
 Prolong Toolings' Life
 Increase Permissible Off-center Load
 Reduce Noise & Vibration
 Easy to Adapt Various Press Automations
 High Performance Wet Type Clutch/Brake
 with Auto-forced Air Cooling
 Extra Long 6-Point Centered Gibs
 Super Rigid Steel Frame
 Multi-Function Press Control
 Variable Slide Stroke



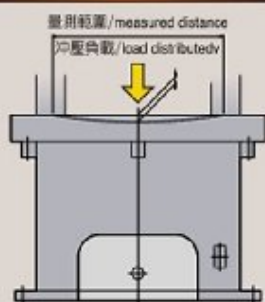
手動調整行程長 Manual Slide Stroke Adjustment

自動調整行程長 Automatic Slide Stroke Adjustment

規格/SPECIFICATIONS

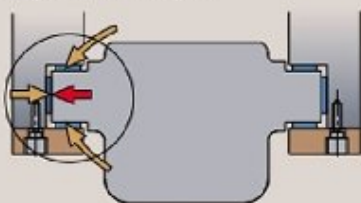
規格內容/MODEL		型式/TYPE	GRM-80	GRA-80	GRM-110	GRA-110	GRM-160	GRA-160	GRM-200	GRA-200
能力/Capacity		Ton	80		110		160		200	
能力發生點/Rated tonnage point		mm	5		5		6		6	
行程長/Stroke length		mm	20~120		20~140		20~160		20~180	
行程數/ Strokes per minute	定速/Fixed	SPM	60		50		45		35	
	變速/Variable		40~75		30~65		25~50		20~45	
最大模高/Die height (S.D.A.U.)		mm	350~400		370~430		440~510		450~530	
滑塊調整量/Slide adjustment		mm	80		90		100		110	
台盤面積/Bolster area (LR x FB)		mm	1000 x 600		1150 x 680		1250 x 760		1400 x 820	
滑塊面積/Slide area (LR x FB)		mm	560 x 460		650 x 520		700 x 580		850 x 650	
主電動機/ Main motor	定速/Fixed	Hp x p	7.5 x 4	7.5 x 4	10 x 4	10 x 4	15 x 4	15 x 4	20 x 4	20 x 4
	變速/Variable		VS 10 x 4	-	VS 15 x 4	-	VS 15 x 4	-	VS 20 x 4	-
滑塊調整馬達/Slide adjusting motor		Kw x p	0.4 x 4		0.4 x 4		0.75 x 4		0.75 x 4	
模墊/Die Cushion	能力/Capacity	ton	6.3		8		10		14	
	面積/Pad area	mm	410 x 260		500 x 300		540 x 350		640 x 470	
	行程長/Stroke	mm	70		80		80		100	
	寬度/Width L.R.	mm	1120		1240		1360		1520	
機械尺寸/ Machine dimension	深度/Depth F.B.	mm	2170		2277		2680		2909.8	
	高度/Height H	mm	3000		3270		3645		4085	

最小機身變形 / Minimize Frame Deflection



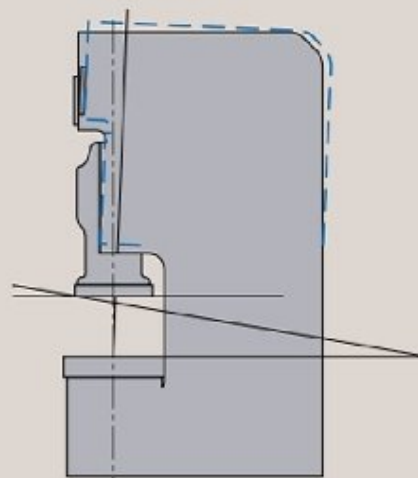
高精度六面導路 / Box Type Six-Point Gib

- 超長導路精度高
 - 側向力台身直接吸收，導路精度穩定性極佳。
- One-piece, full-length, box type gibs assure actuated slide guiding. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.



超高剛性台身 / Super Rigid Steel Frame

結構剛性最佳化
沖壓製品精度大幅提升
模具壽命有效延長

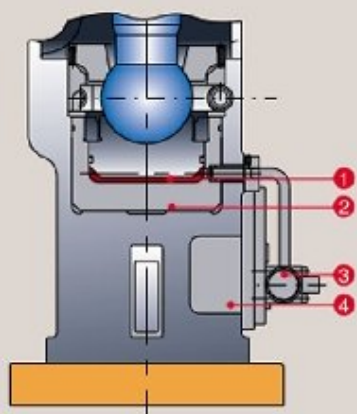


The Chin Fong GRM Series is designed to resist deflection, and provide accurate pressings and longer die life, even at full tonnage loads. The heavy, one-piece welded steel frame is fully stress relieved and designed to provide a stable base for the GRM Series presses.

高感度過負荷保護裝置 / Highly Responsive

Hydraulic Overload Protector (H.O.L.P.)

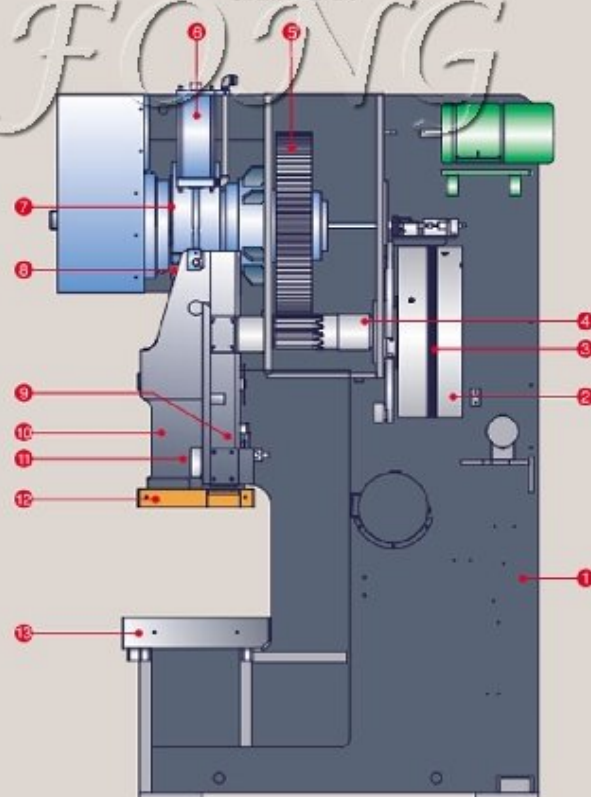
快速反應過載
瞬間油壓洩載



- | | |
|------------|--|
| 1. 過負荷保護裝置 | 1. Piston |
| 2. 油壓緩衝缸 | 2. Hydraulic Overload Protector Cylinder |
| 3. 油壓缸活塞 | 3. H. O. L. P. |
| 4. 油箱 | 4. Oil Tank |

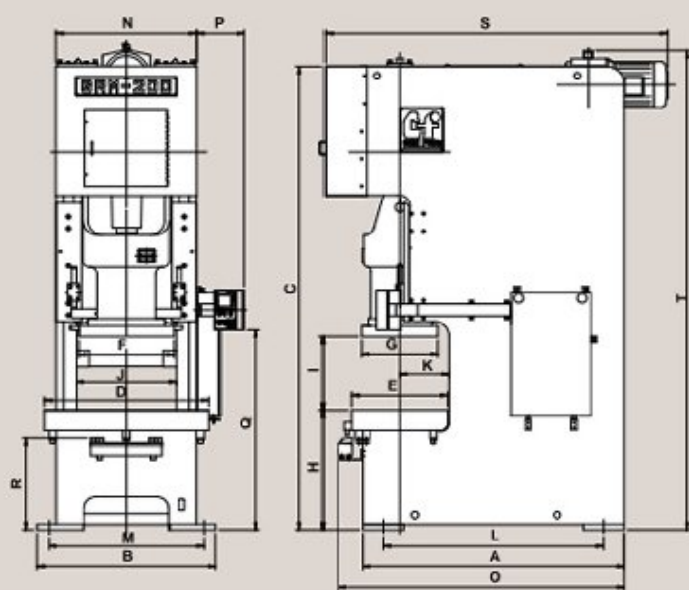
Chin Fong's fast response H.O.L.P. will relieve the pressure of a tonnage overload in milliseconds, causing the press to stop simultaneously. Press and toolings can therefore be protected effectively. Hydraulic pressure of the system can be rebuilt by pushing reset button. Press, then, resume normal operation when inching the slide up to TDC position.

GRM / GRA



- | | | | | | | |
|--------------------|---------------------------------|-----------------------|-----------------------|------------------------------|---------------------|---------------|
| 1. 台身 | 2. 飛輪 | 3. 濕式離合制動器 | 4. 傳動軸 | 5. 大齒輪 | 6. 平衡器 | 7. 曲軸 |
| 8. 鋸牙 | 9. 過負荷油室 | 10. 滑塊 | 11. 頂料裝置 | 12. 滑塊板 (可拆卸式) | 13. 台盤 | |
| 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. Hydraulic Overload Protector | 10. Slide | 11. Slide Knockout | 12. Slide Plate (Detachable) | 13. Bolster | |

外觀尺寸/
OUTLINE DIMENSIONS
GRM / GRA



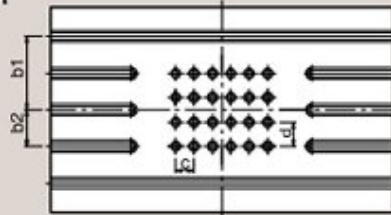
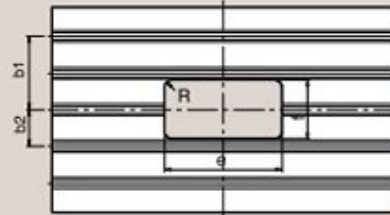
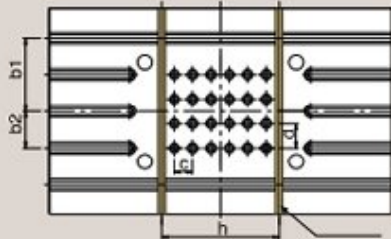
單位/Unit: mm

機種/MODEL	GRM-80	GRA-80	GRM-110	GRA-110	GRM-160	GRA-160	GRM-200	GRA-200
A	1565		1770		2000		2225	
B	1120		1240		1360		1520	
C	2960		3120		3580		3950	
D	1000		1150		1250		1400	
E	600		680		760		820	
F	560		650		700		850	
G	460		520		580		650	
H	830		835		915		1020	
I	400		430		600		630	
J	598		680		750		850	
K	310		350		390		420	
L	1305		1530		1700		1875	
M	930		1050		1270		1320	
N	830		950		1075		1195	
O	1773		1978		2208		2433	
P	405		405		405		405	
Q	1340		1385		1645		1705	
R	663		650		695		785	
S	2170	2015	2277	2110	2680	2470	2910	2680
T	3000		3270		3645		4085	

(以下型式、規格及數量之選配，僅供參考)
(For reference only. Select the items below properly as needed.)

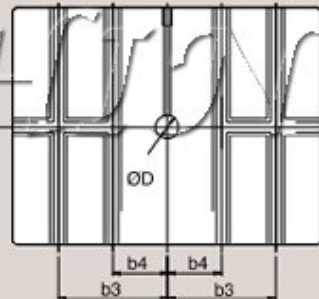
便利的快速換模系統/Quick Die Change System (Q. D. C. S.)									
機型/Model		數量/Qty		選用配置/Option		GRM-80	GRM-110	GRM-160	GRM-200
						GRA-80	GRA-110	GRA-160	GRA-200
TX型夾模器/Die Clamp TX-type	Upper	夾模器	TX-2 or TY-2	夾持力2噸/個 Clamping Force 2 tons/pc					
			TX-4 or TY-4	夾持力4噸/個 Clamping Force 4 tons/pc	4	4			
			TX-6 or TY-6	夾持力6噸/個 Clamping Force 6 tons/pc				4	4
	Lower	夾模器	TX-2 or TY-2	夾持力2噸/個 Clamping Force 2 tons/pc					
			TX-4 or TY-4	夾持力4噸/個 Clamping Force 4 tons/pc	4	4	4	4	4
			TX-6 or TY-6	夾持力6噸/個 Clamping Force 6 tons/pc					
TY型夾模器/Die Clamp T	Die Lifter	搬模器	DL28-400	舉模力1.1噸/個 Pay Load 1.1 tons/pc	2				
			DL28-500	舉模力1.2噸/個 Pay Load 1.2 tons/pc		2			
			DL28-600	舉模力1.4噸/個 Pay Load 1.4 tons/pc	2	2	2	2	2
			DL28-700	舉模力1.5噸/個 Pay Load 1.5 tons/pc			2		
			DL28-800	舉模力1.6噸/個 Pay Load 1.6 tons/pc	2	2			2
			RC-700-600	承載力600kg/個 Pay Load 600 kg/pc				2	
Die Arm	移模器	搬模器	RC-800-800	承載力800kg/個 Pay Load 800 kg/pc					2
			RC-900-900	承載力900kg/個 Pay Load 900 kg/pc					

台盤 BOLSTER

圖一
Fig. 1圖二
Fig. 2圖三
Fig. 3圖四
Fig. 4含舉模器用"U"型溝
with "U" slot for die lifter

單位/Unit: mm

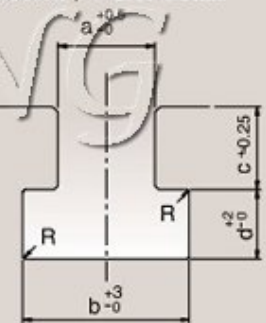
機 種 / MODEL	GRM-80	GRA-80	GRM-110	GRA-110	GRM-160	GRA-160	GRM-200	GRA-200
T型槽型式 / Type of T-Slot	A		B		B		B	
T型槽條數 / No. of T-Slot	3		5		5		5	
模墊銷孔數目 x 孔徑 / No. of Pin Hole x Dia.	24 x $\phi 20^{+0.5}_{-0.1}$		24 x $\phi 28^{+0.5}_{-0.1}$		24 x $\phi 28^{+0.5}_{-0.1}$		35 x $\phi 28^{+0.5}_{-0.1}$	
c x d	75 x 75		90 x 90		100 x 100		100 x 100	
b1	150		250		300		300	
b2	-		150		150		150	
e x f	360 x 180		400 x 200		440 x 220		480 x 240	
R	30		30		30		30	
g	480		480		520		560	
h	440		530		580		680	

滑塊板加工圖 /
SLIDE PLATE

單位/Unit: mm

機 種 / MODEL	GRM-80	GRA-80	GRM-110	GRA-110	GRM-160	GRA-160	GRM-200	GRA-200
滑塊板面積 (左右 x 前後) / Slide Plate Area (LR x FB)	560x460		650x520		700x580		850x650	
T型槽型式 / Type of T-Slot	A		B		B		B	
T型槽條數 / No. of T-Slot Shank	2		2		4		4	
模柄孔徑 / Hole Dia. D	$\phi 50$		$\phi 50$		$\phi 65$		$\phi 65$	
b3	150		150		300		300	
b4	-		-		150		150	

T型槽詳細 / T-Slot Detail



單位/Unit: mm

尺寸 / Dim.	型式 / Type	A	B
a		22	28
b		37	48
c		24	28
d		16	20
R		1	1

標準功能 / 配件 Standard Functions / Accessories

- 固定式雙手按鈕操作台
- 觸碰式操作面盤
- 運轉模式選擇 / 切 / 寸動 / 安全一行程 / 連續
- 油壓過負荷保護裝置
- 二度落保護裝置
- 雙聯電磁閥
- 電動滑塊調整裝置
- 數字式模高指示器 (單位 0.1mm)
- 手動黃油潤滑裝置
- 噴風裝置 3/8" 一迴路
- 空氣源接頭 3/8" 一迴路
- 電源插座 (電源客戶自備)
- (僅適用單相 110V / 220V 電源)
- 主馬達逆轉裝置
- 變頻器 (GRA)

- Fixed Type Two-hand "RUN" Pushbutton Panel
- E-Series Control System
- Operation Mode Selection Off / Inching / Safety One Stroke / Continuous
- Hydraulic Overload Protector (H.O.L.P.)
- Overrun Detector (Brake Monitor)
- Dual-coiled Solenoid Valve
- Digital Die Height Indicator (unit 0.1mm)
- Air Ejector, 3/8", one channel
- Air Source Receptacle, 3/8", one channel
- Life Counter
- Electronic Rotary Cam Switch (6 spare channel)
- Inverter & main motor reversing circuit
- Inverter (GRA)

選用功能 / 配件 Optional Functions / Accessories

- 模墊裝置
- 光電安全裝置
- 滑塊上部頂料裝置
- 電動黃油潤滑裝置
- T型操作台
- 安全擋塊及安全插銷
- 自動化回路 3/8" 4方井
- 飛輪制車裝置
- 送料軸端
- (前部延伸式)
- 快速模具交換 (Q.D.C.)
- 上夾模器
- 下夾模器
- 舉模器
- 移模臂
- 防震機械制
- 模具照明燈
- 變頻器 (GRM)

- Die Cushion
- Safety Light Curtain
- Slide Knockout Device
- Motorized Grease Pump
- Portable 2-hand Pushbutton T- Stand
- Safety Block with plug
- Automation Air Circuit 3/8"
- Clutch Brake
- Crankshaft Front-end Extension
- Quick Die Change System
- Upper Die Clamps
- Die Lifters
- Lower Die Clamps
- Die Arms
- Anti-vibration Press Mounts
- Die Room Light
- Inverter (GRM)



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1102.C01.1500 AC Design / 04-27071159



Straight Side

Single Crank Precision Power Presses

SC1

CHIN FONG



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 & Support Strength
- Minimum Total Clearance
- Electronic Crank Angle Indicator

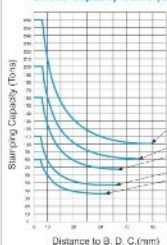


SPECIFICATIONS

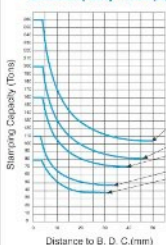
Model	SC1-80			SC1-110			SC1-160				SC1-200				SC1-260				SC1-300														
Type	S	H	L	S	H	L	S	H	L	XL	S	H	L	XL	S	H	L	XL	XL														
Capacity	80			110			160				200				260				300														
Rated Tonnage Point (Above B.D.C.)	Tons	5	3.2	5	5	3.2	5	6	4	6	6	4	6	6.5	4	6.5	7																
Stroke Length	mm	100	60	160	110	70	180	130	80	200	250	150	95	200	250	180	100	250	300														
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	45-85	20-45	20-40	30-60	40-75	20-40	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			560x520			650x520				700x580				850x650				920x700				1400x900									
Side Opening (F.B x H)	mm	610x430			660x490			570x470			750x500		630x510		800x560		800x610		700x570		900x610		750x620	960x660	960x700	1100x750							
Scrap Opening(LRxH)	mm	480x280			480x280			540x280				580x280				720x285				710x330				1000x410									
Main Motor	Variable HPxP	VS 10x4			VS 15x4			VS 15x4				VS 15x4				VS 20x4				VS 25x4				VS 30x4									
	Fixed HPxP	7.5x4			10x4			15x4				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)													
Die Cushion																																	
Capacity	ton	—			6.3			—			8			—			10			—			14			14							
Pad Area (L.R. x F.B.)	mm	410x260			410x260			500x300			500x300			540x350			540x350			640x470			700x470			700x470							
Stroke	mm	70			70			80			80			80			100			100			100			100							
Machine Dimension																																	
Width	mm	1230			1230			1365			1365			1500			1500			1760			1760			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

※ Die cushion applicable to L & XL Type only.

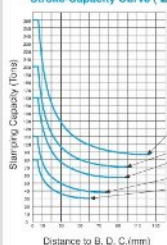
Stroke-Capacity Curve (S)



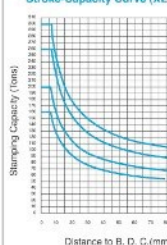
Stroke-Capacity Curve (H)



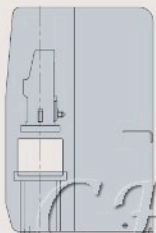
Stroke-Capacity Curve (L)



Stroke-Capacity Curve (XL-Type)



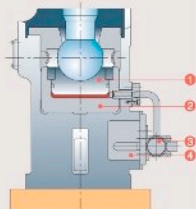
Super Rigid Steel Frame



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.

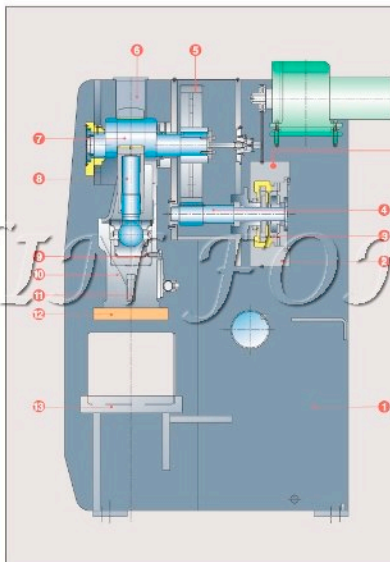
Highly Responsive

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.

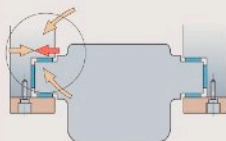


High Performance Wet Clutch & Brake

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

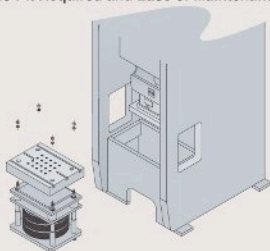
Box Type Six-Point Gib



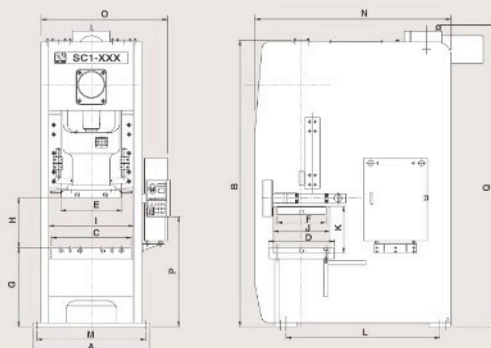
One-piece, box type gibs assure accurate slide guiding. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.

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	
TYPE	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	2680			2980	3045			3410	3545	3710		3780	3845	3855		4240	4325	4390		4525
C		750				900					1000				1150				1300			1600
D	460	800			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		1585		1425	1430		1468		1543		1575		1630			1610
Q	2918	2978			3240	3290		3495		3632	3625		3910		3975	4040	4392		4457	4550		4660

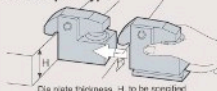
(For reference only. Select the items below properly as needed.)

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

Die Clamp TX-type



Die Clamp TY-type



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		S	H	L	XL		XL
Upper	TX-4 or TY-4	Clamping Force	4				4																	
	TX-6 or TY-6	Clamping Force									4				4				4					6
	TX-2 or TY-2	Clamping Force									4													
	TX-4 or TY-4	Clamping Force	4								4													
Lower	TX-6 or TY-6	Clamping Force													4				4					6
	DL28-400	Max. Load 1.1 tons/pc	2																					
	DL28-500	Max. Load 1.2 tons/pc						2			2													
	DL28-600	Max. Load 1.4 tons/pc						2							2									
Die Lifter	DL28-700	Max. Load 1.5 tons/pc								2			2					2						
	DL28-800	Max. Load 1.6 tons/pc															2			2				
	DL28-900																							2
	RC-700-600	Max. Load 600 kg/pc	2							2														
Die Arm	RC-800-800	Max. Load 800 kg/pc											2											
	RC-900-900	Max. Load 900 kg/pc															2			2				
	RC-1000-1600																							2

Hydraulic Power Unit FP6308U

1

BOLSTER

Fig.1

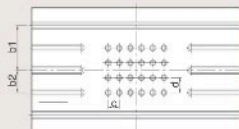


Fig.2

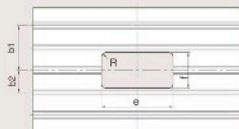


Fig.3

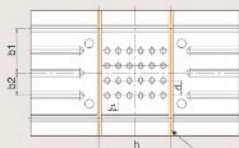


Fig.4

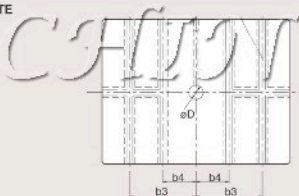


with "U" slot for die lifter

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 $\phi 20^{+0.6}_{-0.1}$	20 x $\phi 28^{+0.6}_{-0.1}$	24 x $\phi 28^{+0.6}_{-0.1}$	30 x $\phi 28^{+0.6}_{-0.1}$	35 x $\phi 28^{+0.6}_{-0.1}$	35 x $\phi 28^{+0.6}_{-0.1}$
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

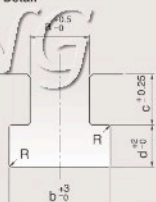
SLIDE PLATE



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

- 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 Slice 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, 6 digits
- 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 Receiptacle, 3/8" one channel
- Missfeed Detection Consent
- Power Receiptacle (available only for single phase, 110V power source wiring by user)

Optional Functions /Accessories

- Pendant Control Panel, APC-6000 Series
- Die Cushion
- Eddy current drive V.S. Motor
- Slice 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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Straight Side Double Crank Presses

GTX

CHIN FONG



160. 200. 250. 300. 400. 500 ton

GTX

Straight Side Double Crank Presses

Productivity

Reliability

Operability

- Improved Flexibilities
- Better Stamping Quality
- Noise & Vibration Reduction
- Excellent Operability

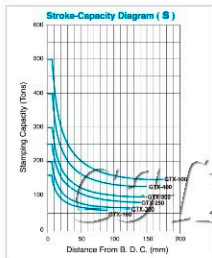
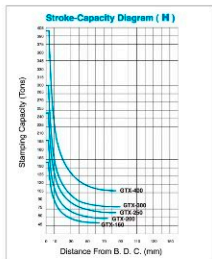
- Prolong Tool Life
- Minimize Frame Deflection
- Increase Permissible Off-center Load
- Convenient Interface for Press Automations

- High Performance Wet-type Clutch & Brake
- Six-point Centrifugal Gibs
- Super Rigid Steel Frame
- Multi-function Press Control

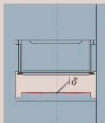


SPECIFICATIONS

TYPE		MODEL		GTX-160		GTX-200		GTX-250		GTX-300		GTX-400		GTX-500			
		S	H	S	H	S	H	S	H	S	H	S	H	S	H		
Capacity	Tons	160		3		6 200		3 250		3 300		3 400		3 500			
Rated forage per (JIS B 200)	mm	6		3		6 200		3 250		3 300		3 400		3 500			
Stroke length	mm	180		130		250 150		280 170		300 170		300 170		350 170			
Strokes per minute	SPM	30-55		40-85		20-50 35-70		20-40 30-60		20-35 30-50		20-35 30-60		20-30 30-60			
Die height (S.D.A.U.)	mm	450		400		500 450		550 450		550 450		550 450		1000			
Maximum Upper Die Weight	kg	1200		1500		2200		A		2400		A		2400			
								B		3200		B		3200			
								C		3200		C		3200			
Slide adjustment	mm	100		120		120		120		120		120		120			
Bolster area (LxRxB)	mm	1800x760		2200x940		A		2500x1000		B		2800x1000		A		2500x1000	
						B		2800x1000		C		3100x1000		B		2800x1000	
						C		3100x1000		D		3400x1000		C		3100x1000	
Bolster Thickness	mm	150		160		A		2100x900		B		2500x900		A		2200x900	
						B		2400x900		C		2800x900		B		2500x900	
						C		2800x900		D		3100x900		C		2800x900	
Slide area (LxRxB)	mm	1600x650		1850x750		A		2100x900		B		2500x900		A		2200x900	
						B		2400x900		C		2800x900		B		2500x900	
						C		2800x900		D		3100x900		C		2800x900	
Slide Plate Thickness	mm	70		95		95		95		95		95		95			
Slide opening	mm	700x450		900x600		900x600		900x600		900x600		900x600		900x700			
Main motor	HPxP	15x6		20x6		25x6		30x6		30x6		30x6		50x4			
	KWxP	11x6		15x6		19x6		22x6		22x6		22x6		37x4			
Slide adjusting motor	HPxP	1x4		2x4		2x4		2x4		2x4		2x4		3x4			
	KWxP	0.75x4		1.5x4		1.5x4		1.5x4		1.5x4		1.5x4		2.2x4			
Air Pressure	kg/cm ²	5		5		5		5		5		5		5			
Die Cushion	Type	2-Pad-2-Cylinder															
	Capacity	ton	6.3x2		10x2		14x2		14x2		14x2		14x2		14x2		
	Air pressure	kg/cm ²	7.2		6.75		9		9		9		9		9		
	Stroke Length	mm	70		80		100		100		100		100		100		
	Pad area	mm	410x260x2pcs		540x350x2pcs		640x470x2pcs		640x470x2pcs		640x470x2pcs		640x470x2pcs		640x470x2pcs		



Super Rigid Steel Frame



The Chin Fong GTX Series is designed to resist deflection, and to provide accurate pressings and longer die life, even at full tonnage loads. The heavy, one-piece welded steel frame is fully stress relieved to provide a stable base for the GTX Series presses.

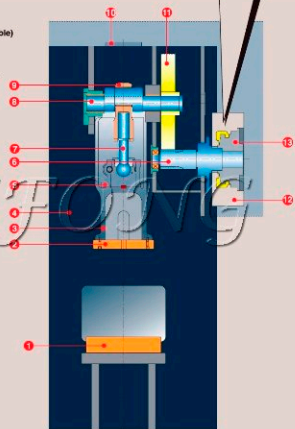
High Driving Torque Wet Clutch & Brake

The Chin Fong clutch delivers rated torque at relatively low air pressure, resulting in reduced lining wear and air consumption.

Life of clutch and brake linings is extended by effective heat dissipation resulting from linings running in an enclosed oil bath. Low moment of inertia significantly reduces wear on linings.

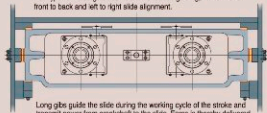
Modern suited friction linings combine high performance with low vibration and noise.

1. Bolster
2. Slide Plate (Detachable)
3. Slide
4. Steel Frame
5. Worm Gear Housing
6. Pinion Shaft
7. Adjusting Screw
8. Crankshaft
9. Con-Rod
10. Counter Balancer
11. Main Gear
12. Flywheel
13. Wet Clutch & Brake



Long, Precise, 6-Point, Centered Box Type Gibbing

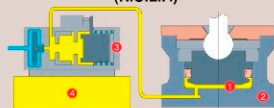
Box type centered gibs assure accurate slide guiding, full control of front to back and left to right slide alignment.



Long gibs guide the slide during the working cycle of the stroke and transmit power from crankshaft to the slide. Force is thereby delivered vertically, minimizing the lateral thrust found as the cause of friction in the gibs, and off-center loads.

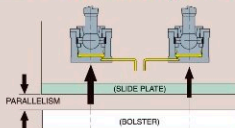
Fast Response Hydraulic Overload Protector

(H.O.L.P.)



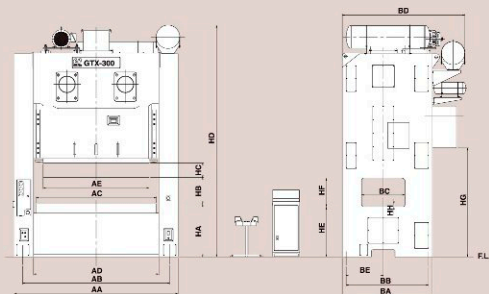
Chin Fong's fast response H.O.L.P. will relieve the pressure of a tonnage overload in milliseconds, causing the press to stop simultaneously. Press and toolings can therefore be protected effectively. Hydraulic pressure of the system can be rebuilt by pushing reset button. Press, then, resume normal operation when inching the slide up to TDC position.

Maintain Parallelism During Offset Loads



If unequal loads are applied across the slide, full oil pressure from the overload system is applied where required to retain the parallelism between slide plate and bolster for consistent quality of pressings and extended tooling life.

OUTLINE DIMENSIONS



unit: mm

MODEL	GTX-160		GTX-200		GTX-250		GTX-300		GTX-400		GTX-500
TYPE	S	H	S	H	S	H	S	H	S	H	S
AA	2590		3000		3310		3400		3400		4200
AB	2240		2650		2960		3050		3050		3800
AC	1800		2200		2500		2500		2500		3200
AD	1880		2290		2600		2600		2600		3300
AE	1600		1850		2100		2200		2200		2900
BA	1450		1800		1770		1870		2000		2100
BB	1290		1440		1610		1710		1840		1940
BC	700		900		900		900		900		900
BD	2150		2300		2470		2570		2750		2800
BE	490		620		670		770		770		800
HA	1000		990		1090		1100		1200		1340
HB	450	400	500	450	550	450	550	450	550	450	700
HC	180	130	250	150	280	170	300	170	300	170	350
HD	4050	3950	4450	4300	5010	4900	5050	4950	5450	5300	5865
HE	940		930		1030		1040		1140		1290
HF	450		600		600		600		600		450
HG	1800		1900		2000		2300		2300		3235
HH	60		60		60		60		60		50

(The suggested selections are for reference only. Actual item selection may vary subject to requirements.)

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

		Option	Qty	Model	GTX-160	GTX-200	GTX-250	GTX-300	GTX-400	GTX-500
Die Clamp TX-type With "U" Cut in die set	Die Clamp	Upper	TX-4 or TY-4	Clamping Force 4 tons/pc	8	8	8	8		
		Lower	TX-6 or TY-6	Clamping Force 6 tons/pc					8	8
			TX-2 or TY-2	Clamping Force 2 tons/pc	8	8				
			TX-4 or TY-4	Clamping Force 4 tons/pc			8	8	8	8
Die Clamp TY-type Die plate thickness, H, to be specified	Die Lifter		DL28-600	Pay Load 1.4 tons/pc						
			DL28-700	Pay Load 1.5 tons/pc	4					
			DL28-800	Pay Load 1.6 tons/pc						
			DL28-900	Pay Load 1.8 tons/pc		4	4	4	4	4
Die Arm	Die Arm		RC-700-600	Pay Load 600 kg/pc	4					
			RC-800-800	Pay Load 800 kg/pc						
			RC-900-900	Pay Load 900 kg/pc		4	4	4	4	4
Hydraulic Power Unit FP6308U					1					

BOLSTER

Fig. 1

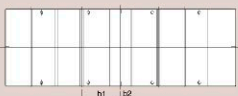


Fig. 2

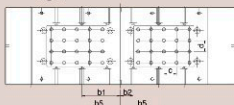
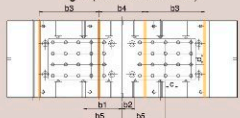


Fig. 3 (with "u"slot for die lifter)



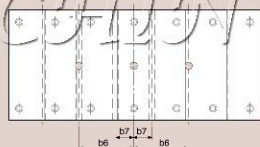
Fig. 4 (with "u"slot for die lifter)



unit: mm

MODEL	GTX-160	GTX-200	GTX-250	GTX-300	GTX-400	GTX-500
Bolster Area (LR x FB)	1800 x 760	2200 x 940	2500 x 1000	2500 x 1000	2500 x 1000	3200 x 1300
Type of T-Slot	A	B	B	B	B	B
No. of T-Slot	8	8	8	8	8	10
b1	375	375	450	450	450	450
b2	125	125	150	150	150	150
b3	450	710	680	680	680	600
b4	520	520	540	540	540	600
b5	415	455	510	510	510	510
Fig 2, Fig 4	No. of Pin Hole x Dia.	48 x Ø20 ^{+0.3} _{-0.1}	48 x Ø28 ^{+0.3} _{-0.1}	70 x Ø28 ^{+0.3} _{-0.1}	70 x Ø28 ^{+0.3} _{-0.1}	70 x Ø28 ^{+0.3} _{-0.1}
	c x d	75 x 75	100 x 100	100 x 100	100 x 100	100 x 100

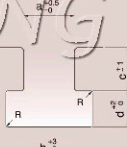
SLIDE PLATE



unit: mm

MODEL	GTX-160	GTX-200	GTX-250	GTX-300	GTX-400	GTX-500
Slide Plate Area (LRXFB)	1600 x 650	1850 x 750	2100 x 900	2200 x 900	2200 x 900	2900 x 1300
Type of T-Slot	A	B	B	B	B	B
No. of T-Slot	6	6	6	6	6	10
b6	375	375	450	450	450	450
b7	125	125	150	150	150	150

T-Slot Detail



unit: mm

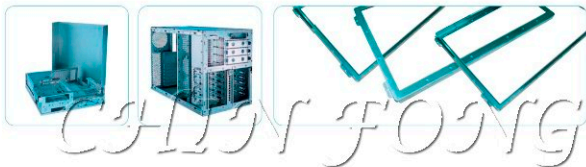
Dim.	Type	A	B
a		22	28
b		37	48
c		24	28
d		16	20
R		1	1

Standard Functions / Accessories

- High Performance Wet Type Clutch & Brake
- Touch Screen LCD Control Panel
 - Multiple Language Selection
 - Crank Angle / S.P.M. Display
 - Parameters Setup And Status Monitor
- Operation Mode Selection
 - Off / Inching / Safety One Stroke / Continuous
- Hydraulic Overload Protector (H.O.L.P.)
- Overrun Detector (Brake Monitor)
- Motorized Grease Pump
- Dual-coiled Solenoid Valve
- Floor Standing Electric Control Cabinet
- Motorized Slide Adjustment
- Digital Die Height Indicator (unit:0.1mm)
- Total Counter, 6 digits
- Preset Counter, 6 digits
- Maintenance Counter, 4 digits
- Life Counter, 10 digits
- Electronic Rotary Cam Switch (6 spare channel)
- Air Ejector, 3/8", one channel
- Air Source Receptacle, 3/8", two channel
- Misfeed Detection Circuit
- Power Receptacle (available only for single phase, 110V power source wiring by user)
- Flywheel Safety Guard
- Portable 2-hand Pushbutton T-stand
- Inverter & Main Motor Reversing Circuit

Optional Functions / Accessories

- Pneumatic Die Cushion
- Safety Light Curtain
- Slide Knockout Device
- Flywheel Brake
- Safety Die Block with plug
- Dual Valve Solenoid with Detector
- Die Space Light
- Misfeed Detector
- Anti-vibration Press Mount
- Quick Die Change System
 - Upper Die Clamp
 - Lower Die Clamp
 - Die Lifter
 - Die Arm
- Eddy Current Drive VS Motor
- Anchor Bolts & Foundation Plates
- Automatic Feed Equipment
- NC Straightener Feed c/w Uncoiler (3 in 1)
- NC Roller Feeder
- Straightener c/w Uncoiler (2 in 1)
- VFD-Variable Frequency Drive
- APC Controller



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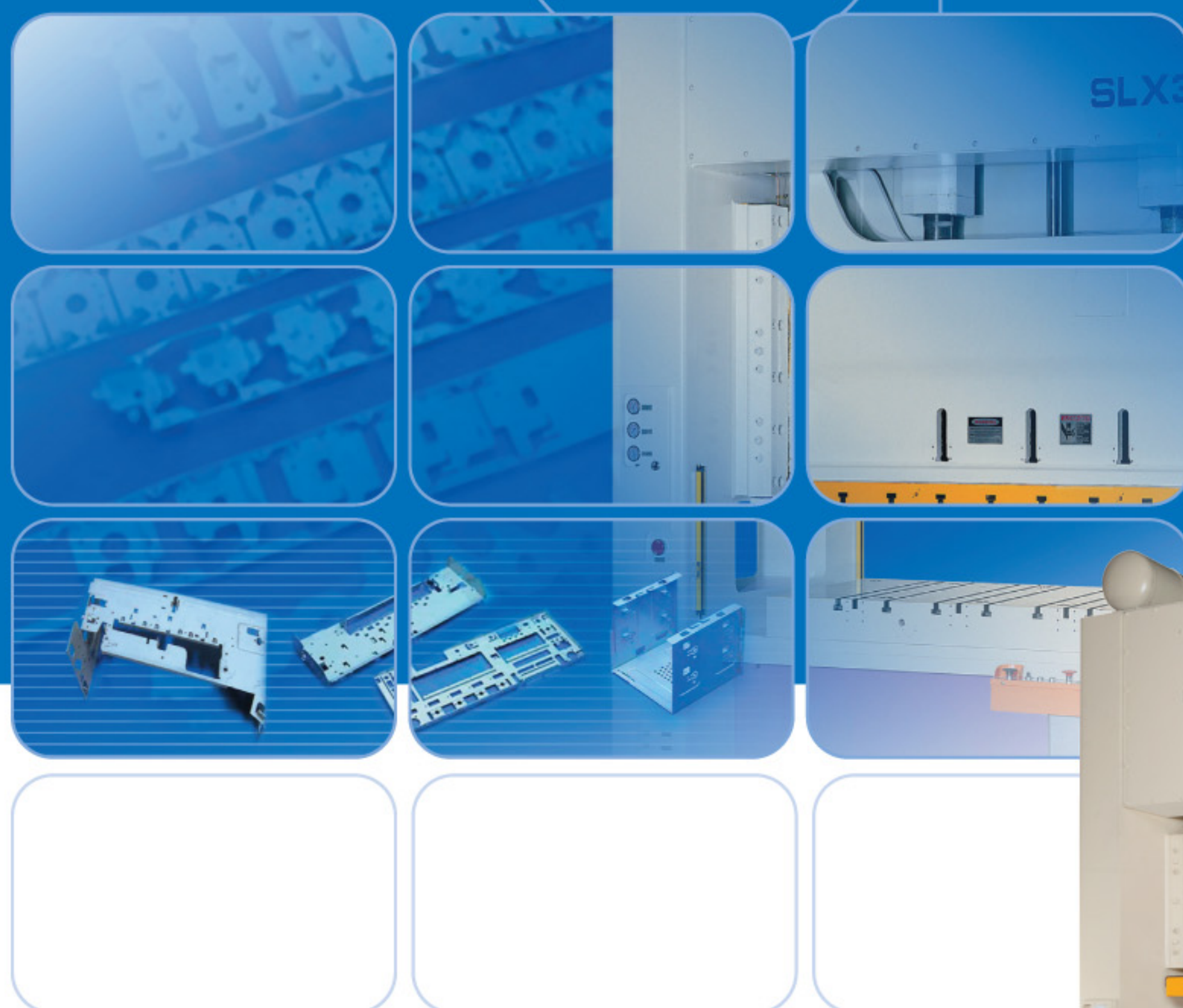
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ストレートサイドダブルクランクリンクプレス
Straight Side **Link Drive**
Double Crank Power Presses

SLX



160. 200. 250. 300. 400 ton

BOLSTER
ボルスター

Fig. 1
図面一

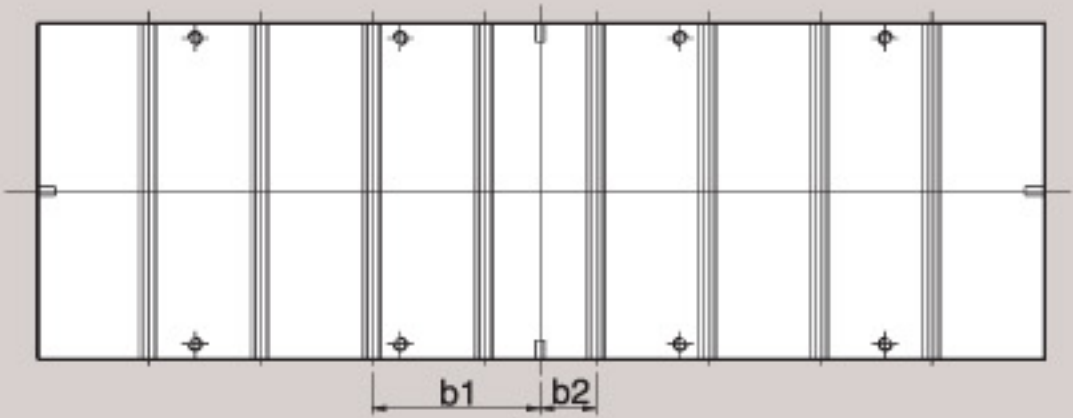


Fig. 2
図面二

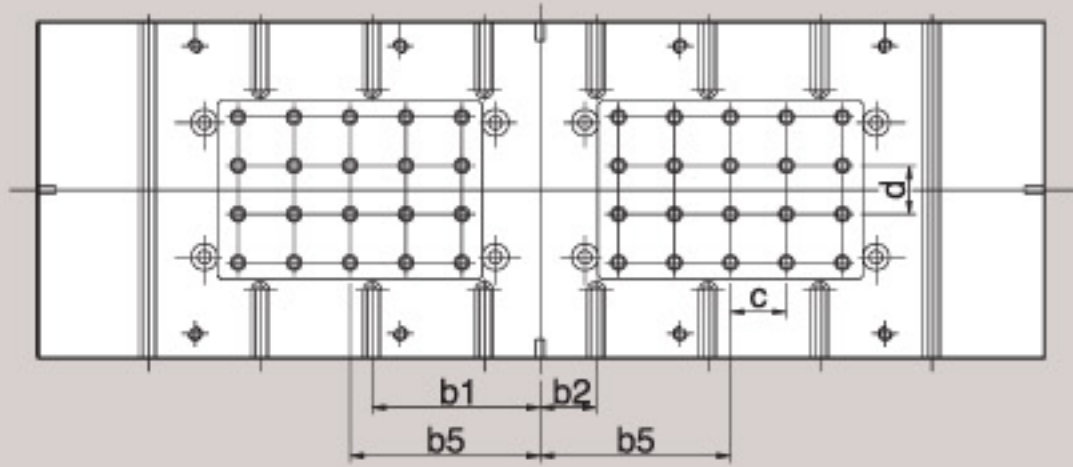


Fig. 3 (with "u"slot for die lifter)
*** (ダイリフター用 "U" 溝含む)

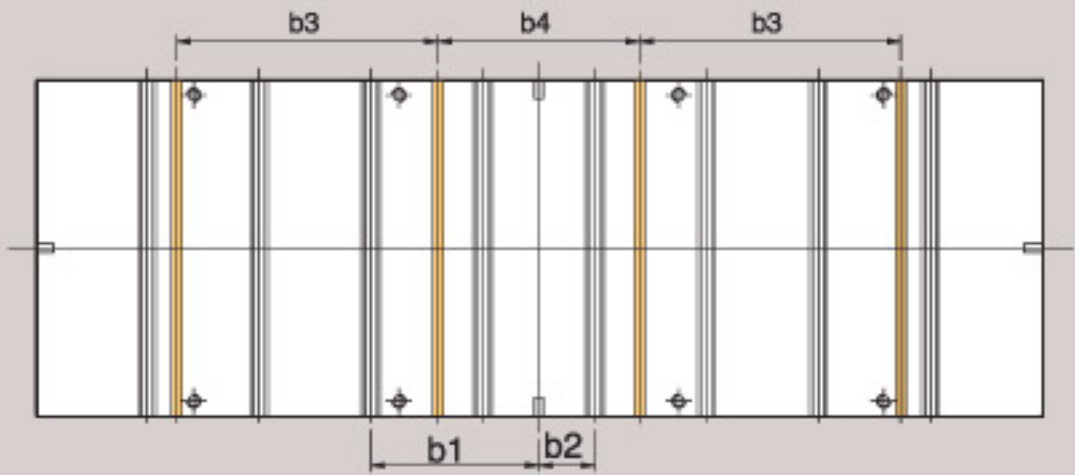
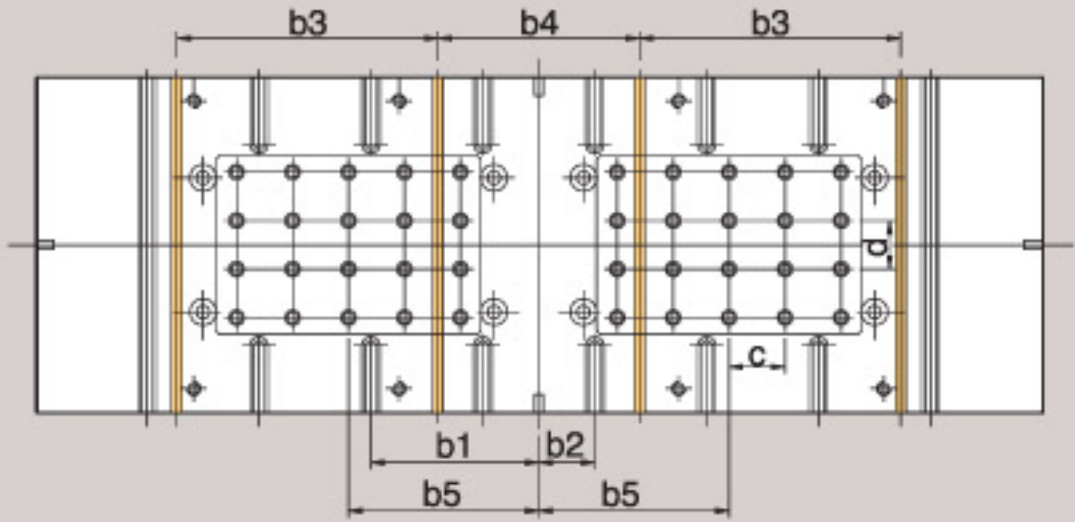


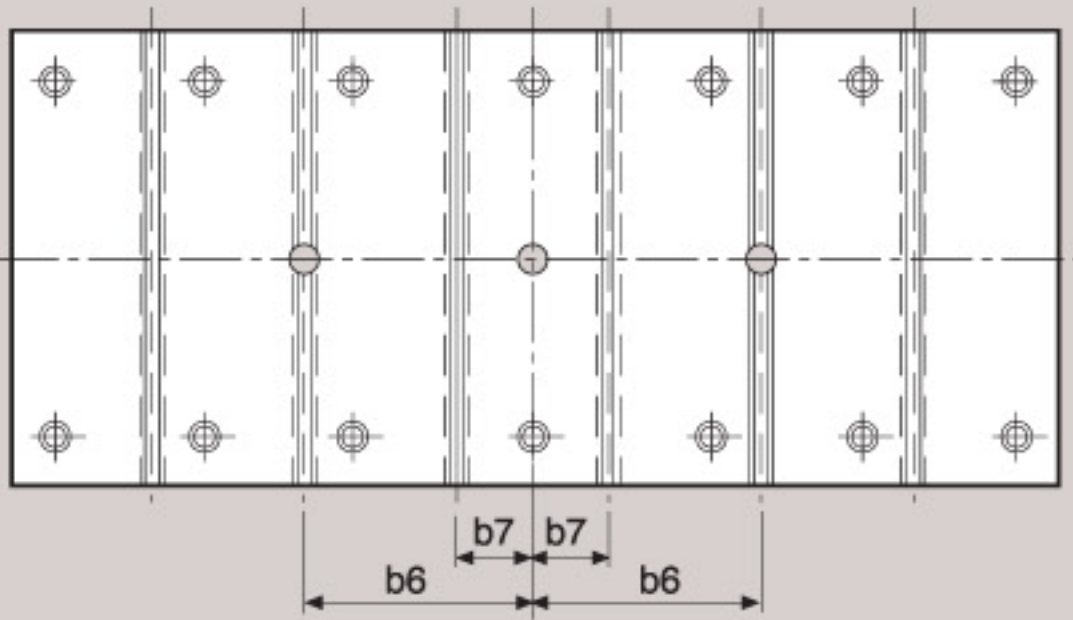
Fig. 4 (with "u"slot for die lifter)
*** (ダイリフター用 "U" 溝含む)



unit: mm

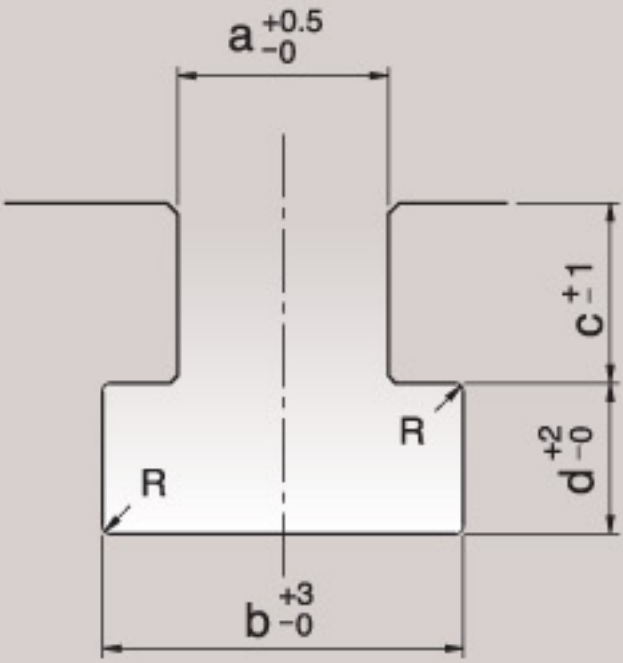
MODEL 機種		SLX-160	SLX-200	SLX-250	SLX-300	SLX-400
Bolster Area (LR x FB)ボルスター面積 (左右x前後)		1800 x 760	2200 x 940	2500 x 1000	2500 x 1000	2500 x 1000
Type of T-Slot	T溝型番	A	B	B	B	B
No. of T-Slot	T溝数	8	8	8	8	8
b1		375	375	450	450	450
b2		125	125	150	150	150
b3		450	710	680	680	680
b4		520	520	540	540	540
b5		415	455	510	510	510
Fig 2. Fig 4 図面二、四	No. of Pin ダイクツシヨンホール x Dia. ル数 x ピン穴	48 x Ø20 ^{+0.5} / _{+0.1}	48 x Ø28 ^{+0.5} / _{+0.1}	70 x Ø28 ^{+0.5} / _{+0.1}	70 x Ø28 ^{+0.5} / _{+0.1}	70 x Ø28 ^{+0.5} / _{+0.1}
	c x d ホールピッチ c x d	75 x 75	100 x 100	100 x 100	100 x 100	100 x 100

SLIDE PLATE
スライドプレート加工図



unit: mm

T-Slot Detail
T溝詳細



unit: mm

MODEL 機 種	SLX-160	SLX-200	SLX-250	SLX-300	SLX-400
Slide Plate Area (LRXFB) スライド面積 (左右x前後)	1600 x 650	1850 x 750	2100 x 900	2200 x 900	2200 x 900
Type of T-Slot T溝型番	A	B	B	B	B
No. of T-Slot T溝数	6	6	6	6	6
b6	375	375	450	450	450
b7	125	125	150	150	150

Dim. \ Type	A	B
a	22	28
b	37	48
c	24	28
d	16	20
R	1	1

Standard Functions / Accessories		Optional Functions / Accessories	
■ High Performance Wet Type Clutch & Brake ■ APC Controller • Multiple Language Selection • Crank Angle / S.P.M. Display • Parameters Setup And Status Monitor ■ Operation Mode Selection - Off / Inching / Safety One Stroke / Continuous ■ Hydraulic Overload Protector (H.O.L.P.) ■ Overrun Detector (Brake Monitor) ■ Motorized Grease Pump ■ Dual-coiled Solenoid Valve ■ Floor Standing Electric Control Cabinet ■ Motorized Slide Adjustment ■ Digital Die Height Indicator (unit:0.1mm)	■ Total Counter, 6 digits ■ Preset Counter, 6 digits ■ Maintenance Counter, 4 digits ■ Life Counter, 10 digits ■ Electronic Rotary Cam Switch (6 spare channel) ■ Air Ejector, 3/8", one channel ■ Air Source Receptacle, 3/8", two channel ■ Misfeed Detection Circuit ■ Power Receptacle (available only for single phase, 110V power source wiring by user) ■ Flywheel Safety Guard ■ Portable 2-hand Pushbutton T-stand ■ Inverter & Main Motor Reversing Circuit	● Pneumatic Die Cushion ● Safety Light Curtain ● Slide Knockout Device ● Flywheel Brake ● Safety Die Block with plug ● Dual Valve Solenoid with Detector ● Die Space Light ● Misfeed Detector ● Anti-vibration Press Mount ● Quick Die Change System • Upper Die Clamp • Lower Die Clamp • Die Lifter • Die Arm ● Eddy Current Drive VS Motor	● Anchor Bolts & Foundation Plates ● Automatic Feed Equipment ● NC Straightener Feed c/w Uncoiler (3 in 1) ● NC Roller Feeder ● Straightener c/w Uncoiler (2 in 1) ● VFD-Variable Frequency Drive ● E-Series Control System

標準付属品		オプション	
■ 湿式クラッチブレーキ ■ モニター付操作盤 APC-6000 • 電子式クランク角度指示計 • 電子式ストローク数指示計 • 運転状態 LED 監視装置 ■ 運転モード選択スイッチ - 切/寸動/安全一行程/連続 ■ 油圧オーバーロード保護装置 ■ 二度打ち保護装置 ■ ダブルソレノイドバルブ ■ 電動式スライド調整装置 ■ 独立式制御箱	■ デジタルダイハイト指示計 (単位 0.1mm) ■ 電動式グリースポンプ ■ トータルカウンター 6 桁 ■ プリセットカウンター 6 桁 ■ メンテナンスカウンター 4 桁 ■ 寿命カウンター 10 桁 ■ 電子式ロータリカム予備 6 連 ■ エアーエジェクター 3/8" 1 回路 ■ エアーレセプタクル 3/8" 2 回路 ■ ミスフィードコンセント ■ コンセント (電源 110 v 適用) ■ フライホイールカバー ■ インバーター及びメインモーター正逆転装置	● ダイクッション装置 ● V.S. モーター (APC 専用) ● 光線式安全装置 ● スライドノックアウト装置 ● 安全ブロック&プラグ ● ソレノイドバルブ検知付き ● ミスフィード検知装置 ● フライホイールブレーキ ● 防振装置 ● Eタイプ電気制御	● 金型交換装置 (Q.D.C) ● 上型クランパー ● 下型クランパー ● ダイリフター ● ダイアーム ● 基礎ボルト&プレート



沖壓機械專業製造廠

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1007, EJ01, 1500 AC Design / 04-27071159



Straight SideLink Drive Double Crank Power Presses ストレートサイドダブルクランクリンクプレス

Improve Stamping Quality
Reduce Noise & Vibration
Increase Productivity Near 40%
Higher Return on Investment

Reduce Slide Speed Within Working Stroke by 40%
Prolong Toolings Life
Minimize Frame Deflection
Increase Permissible Off-center Load
Reduce Noise & Vibration when Blanking
Easy Adaption for various Press Automations

Super Rigid Steel Frame
Extra Long 6-point Centered Gibs
High Performance Link Drive
Multi-function Press control

高精密加工を実現
低騒音、低振動
生産力大幅アップ

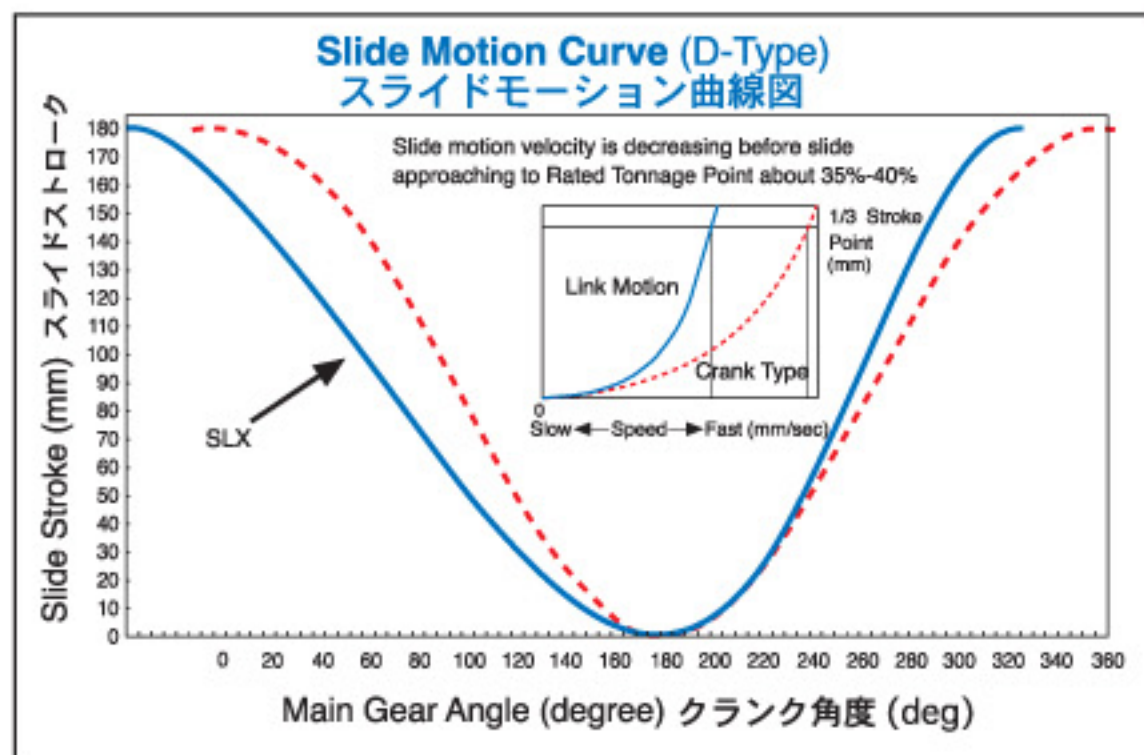
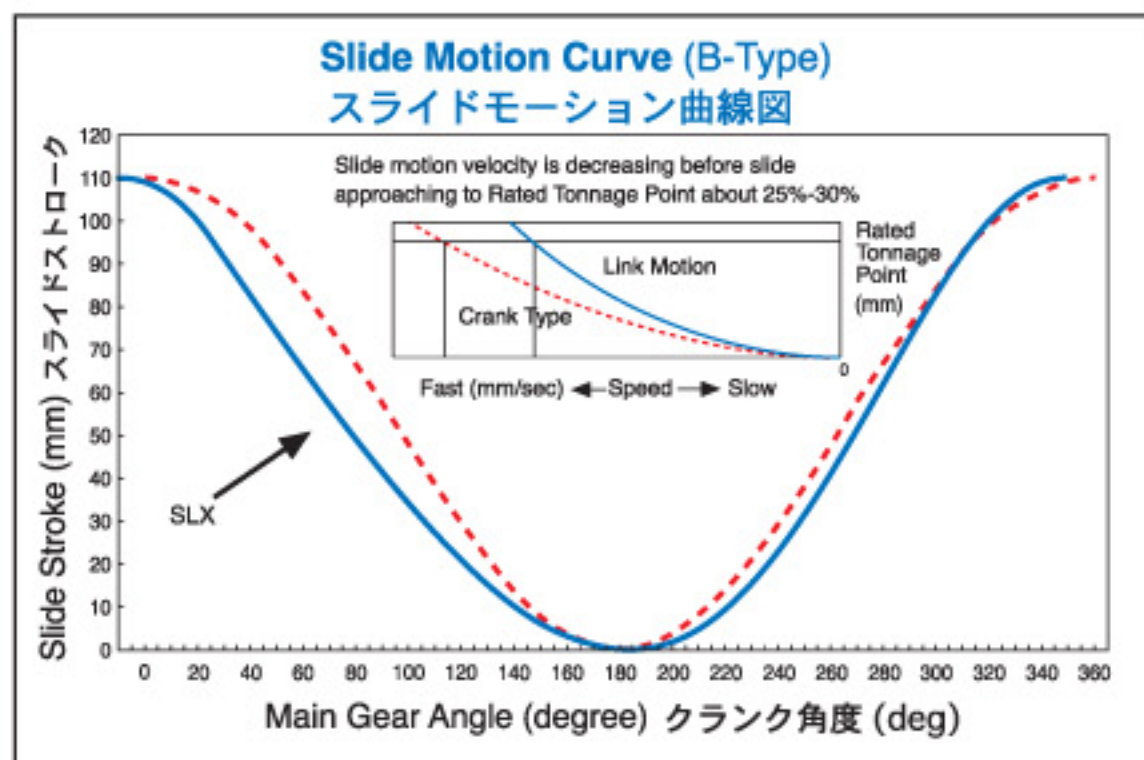
加工域での速度が大幅に低減
金型寿命の大幅アップ
最小のディフレクション
偏心荷重に強い
低騒音ブランピング

高剛性フレーム
固定式六面ガイド
高剛性リンクドライブ
多機能プレス制御



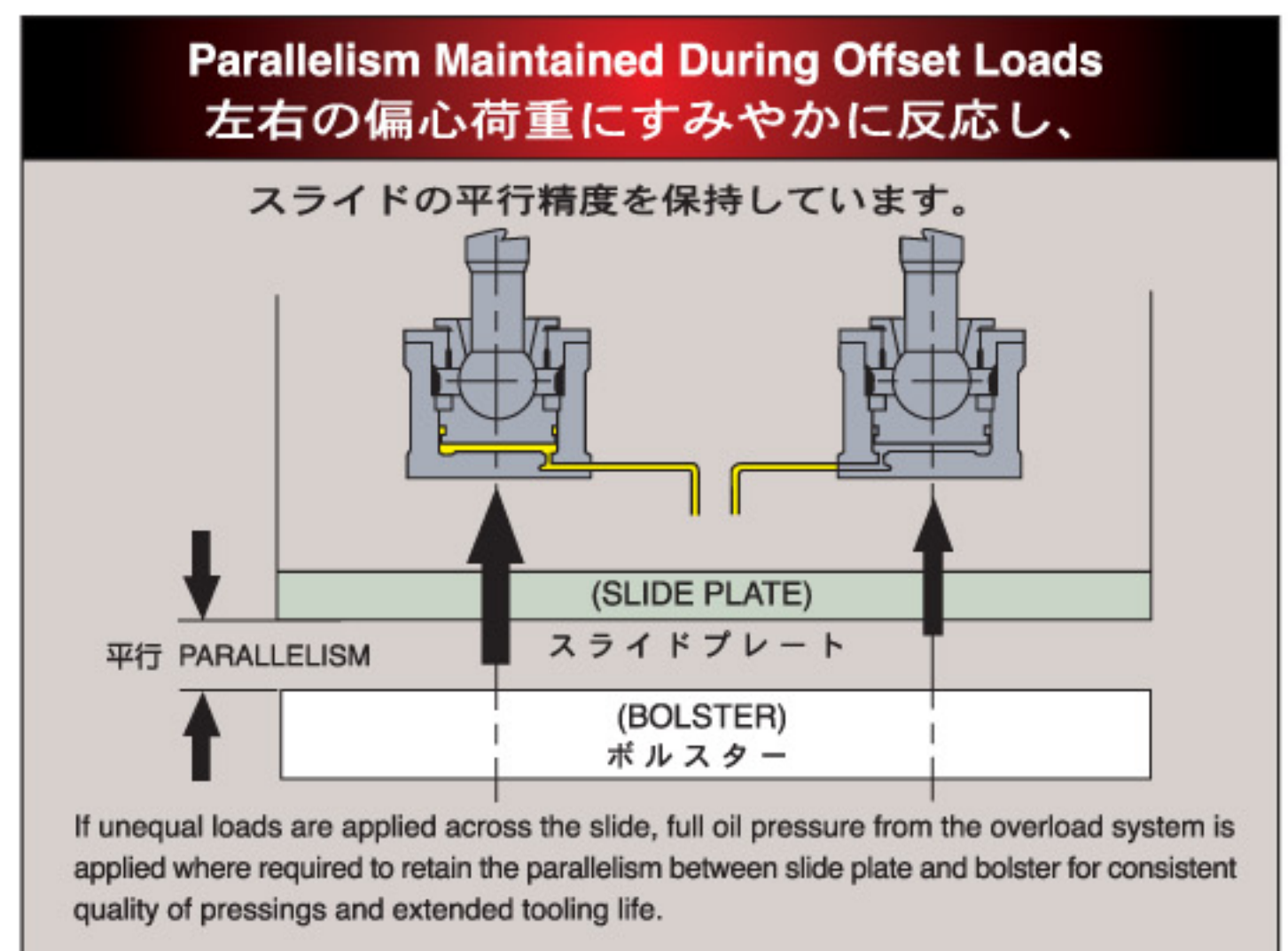
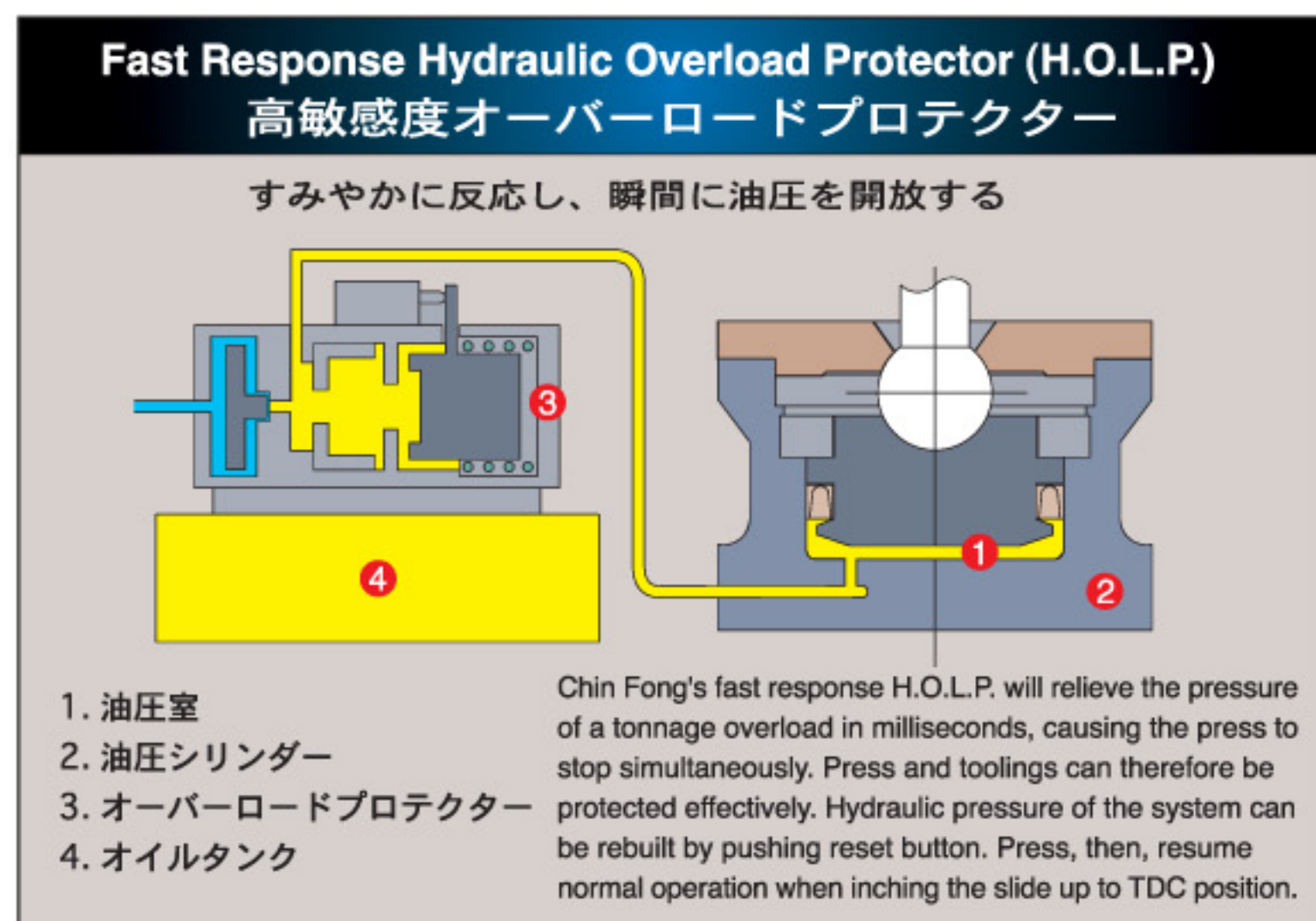
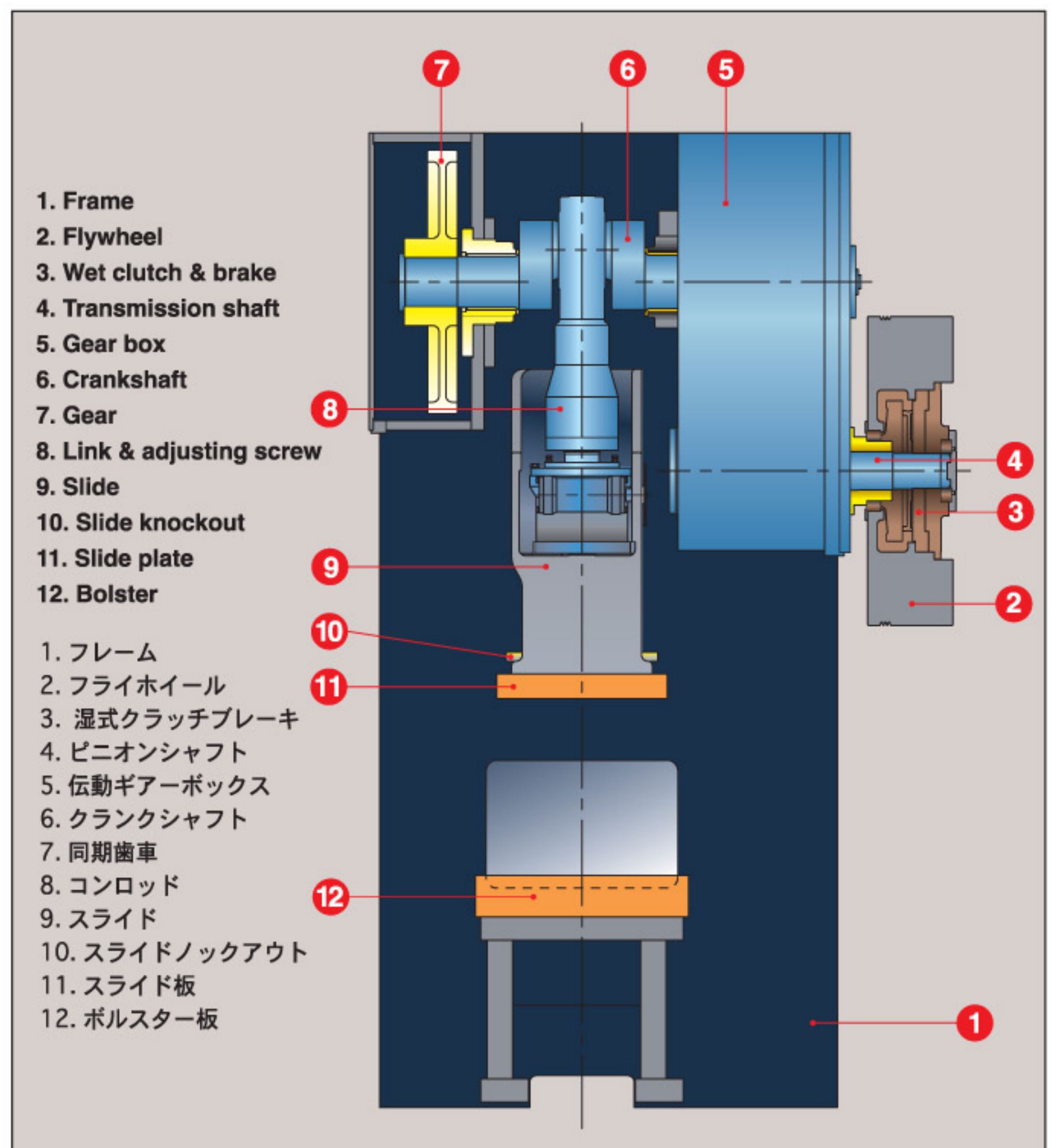
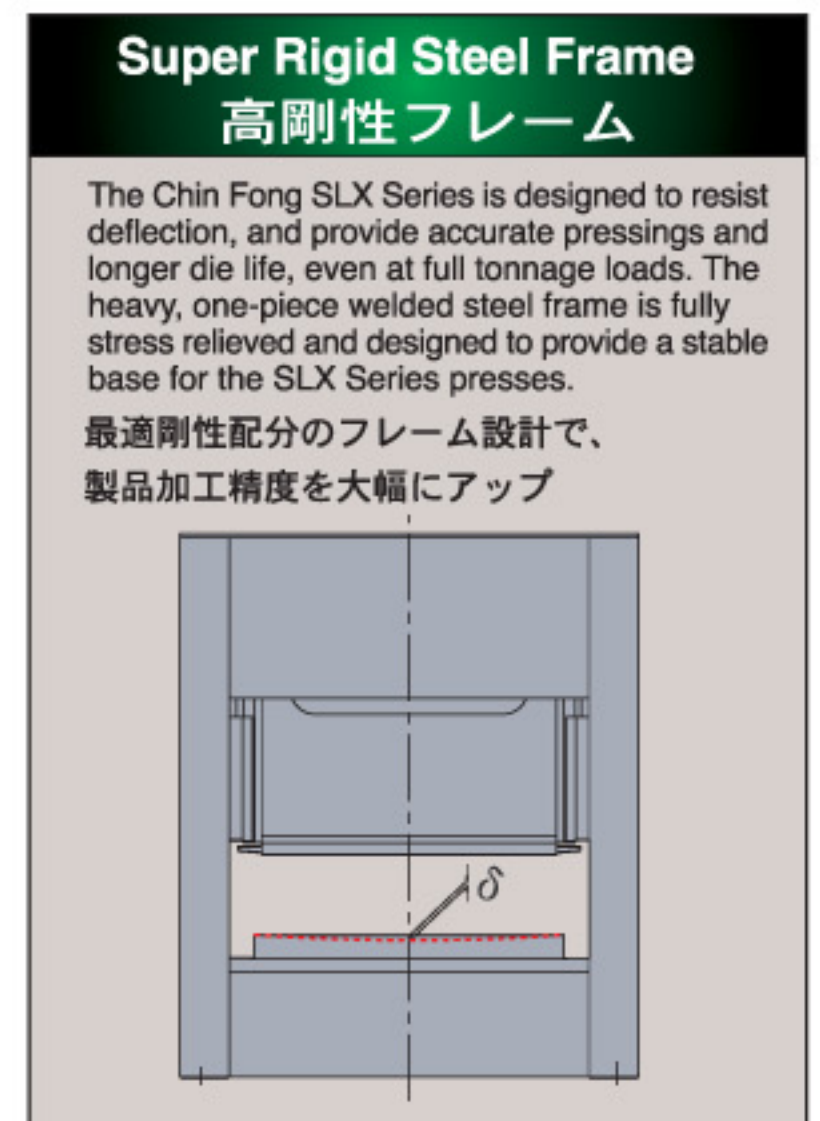
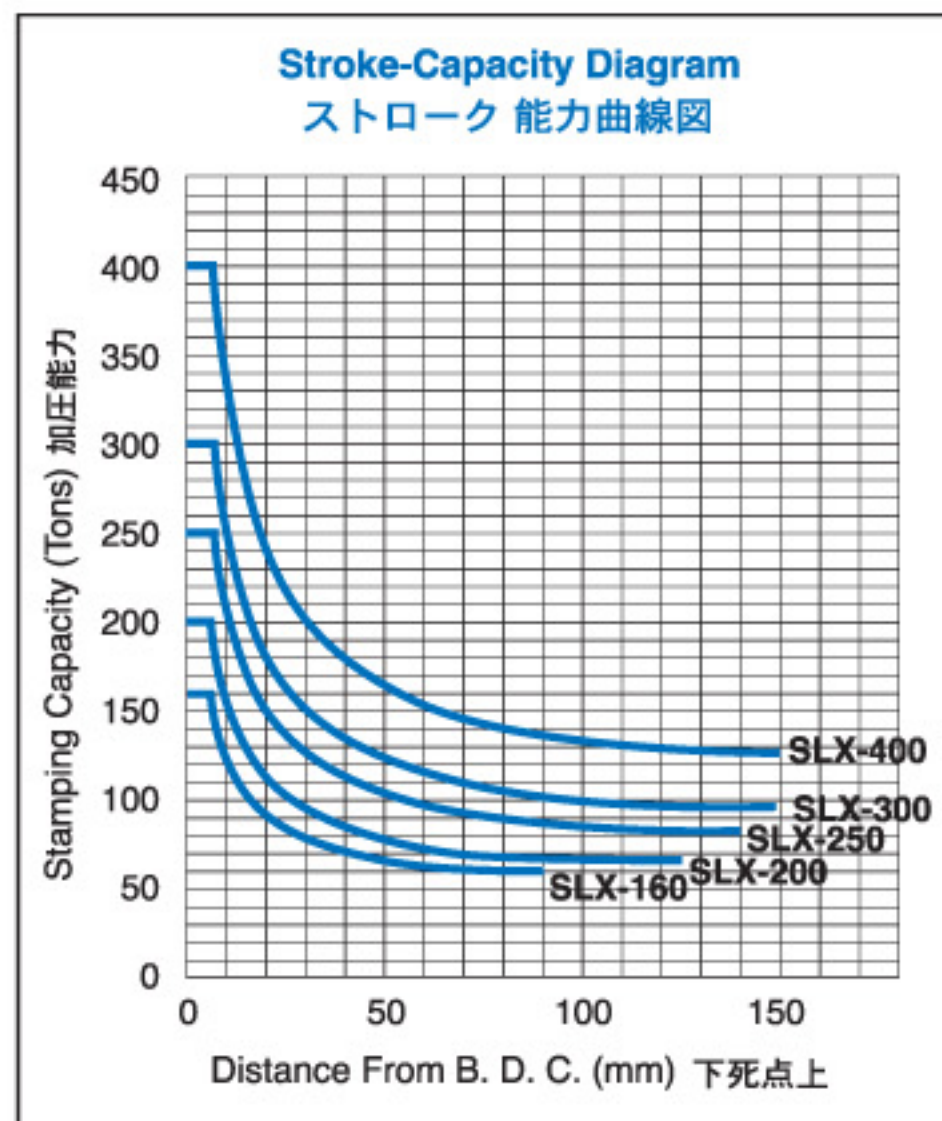
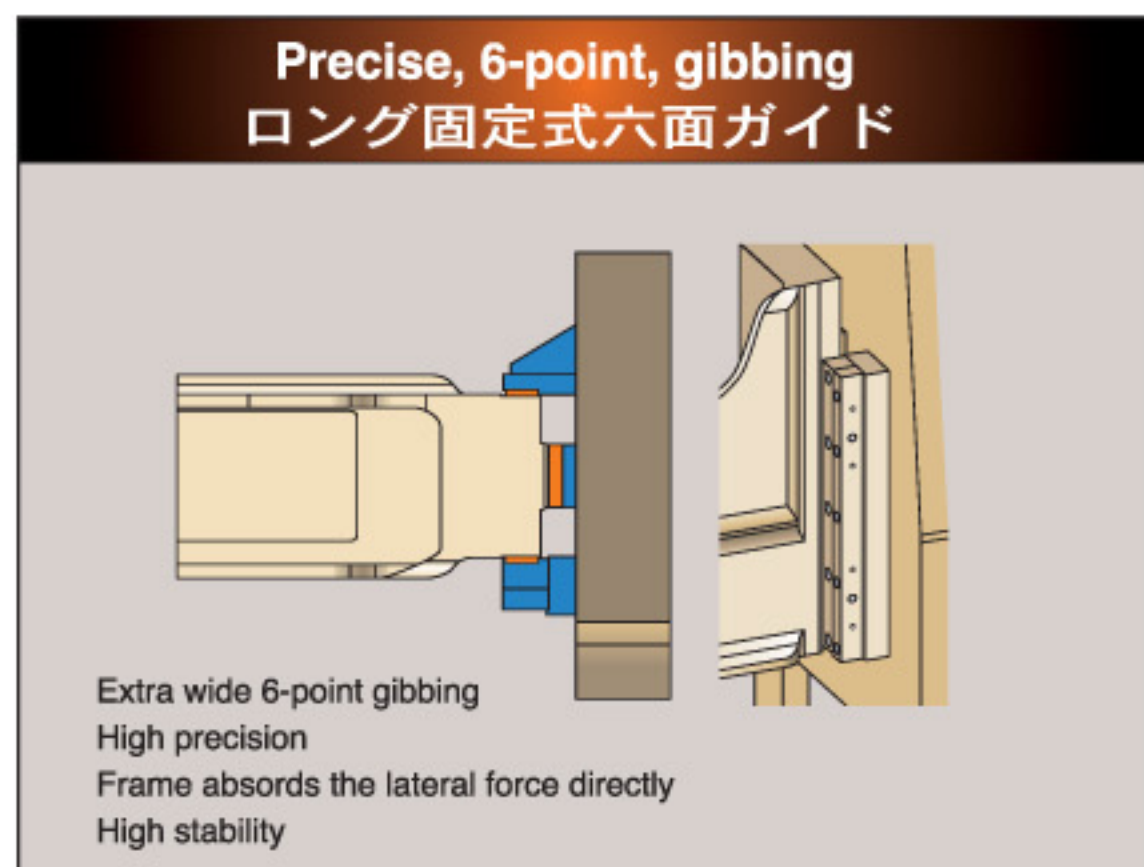
SPECIFICATIONS 仕様

Model			機 種		SLX-160		SLX-200		SLX-250		SLX-300		SLX-400			
Type			型 式		D	B	D	B	D	B	D	B	D	B		
Capacity			能 力		Ton		160		200		250		300		400	
Rated tonnage point			能力発生点		mm		6	3	6	3	7	3	7	3	7	3
Strokes per minute ストローク数	Fixed speed 変數		SPM	30	40	20	35	20	30	20	30	20	30	20	30	
				55	85	50	70	40	60	35	50	35	50			
	Variable speed 定速		SPM	42.5	62.5	35	52.5	30	45	27.5	40	27.5	40			
Stroke length			ストローク長さ		mm		180	130	250	150	280	170	300	170	300	170
Die height (S.D.A.U.)			ダイハイト		mm		450	400	500	450	550	450	550	450	550	450
Maximun upper die weight			最大上型重さ		Kg		1200		1500		2200		2400		2400	
Slide adjustment			スライド調整量		mm		100		120		120		120		120	
Bolster area (LR x -B)			ボルスター面積		mm		1800x760		2200x940		2500x1000		2500x1000		2500x1000	
Bolster thickness			ボルスター厚さ		mm		150		160		160		190		190	
Slide area (LR x FB)			スライド面積		mm		1600x650		1850x750		2100x900		2200x900		2200x900	
Side Opening			サイドオープニング		mm		700x450		900x600		900x600		900x600		900x600	
Main motor			主 電 動 機		Hpxp		AC 20x6+INV (V.S. 20x4)		AC 20x6+INV (V.S. 25x4)		AC 25x6+INV (V.S. 30x4)		AC 30x6+INV (V.S. 40x4)		AC 40x6+INV (V.S. 50x4)	
Slide Adjusting Motor			スライド調整量		Hpxp		1x4		2x4		2x4		2x4		2x4	
Die Cushion 模 墊	Type	型 式	2P2C													
	Capacity	能 力	ton	6.3x2		10x2		14x2		14x2		14x2				
	Air pressure	使用空気圧	Kg/cm ²	7.2		6.75		9		9		9				
	Stroke Length	ストローク長さ	mm	70		80		100		100		100				
	Pad area	パット面積	mm	410x260x2pcs		540x350x2pcs		640x470x2pcs		640x470x2pcs		640x470x2pcs				



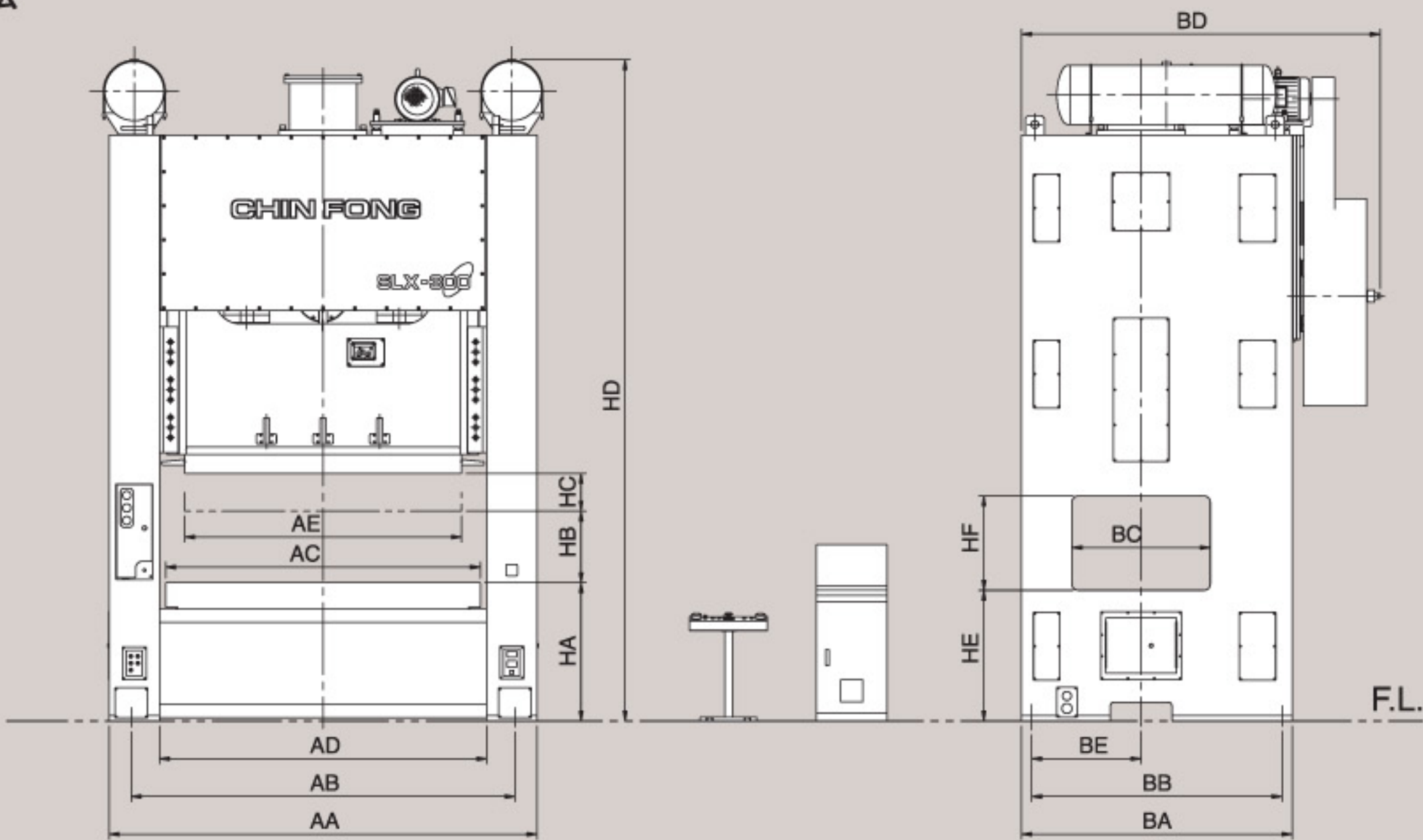
Slide motion characteristic

The design of transmission mechanism make slide to stamp workpiece in an ideal velocity. When the slide descends to the working area, this can improve working environment quality. Comparison with crank mechanism, the rising velocity of slide is faster and productive efficiency raise 1.2~1.4 times.



OUTLINE DIMENSIONS

外型寸法



unit: mm

MODEL 機種	SLX-160		SLX-200		SLX-250		SLX-300		SLX-400	
形式	D	B	D	B	D	B	D	B	D	B
AA	2700		3140		3440		3500		3540	
AB	2350		2770		3070		3100		3120	
AC	1800		2200		2500		2500		2500	
AD	2000		2400		2700		2700		2700	
AE	1600		1850		2100		2200		2200	
BA	1370		1590		1770		1790		2040	
BB	1210		1430		1610		1630		1880	
BC	700		900		900		900		900	
BD	2100		2285		2450		2470		2820	
BE	490		590		680		700		760	
HA	1000		1000		1100		1100		1200	
HB	450	400	500	450	550	450	550	450	550	450
HC	180	130	250	150	280	170	300	170	300	170
HD	4095	3995	4450	4300	4810	4600	4875	4645	5265	5035
HE	940		940		1040		1040		1140	
HF	450		600		600		600		600	

(For reference only. Select the items below properly as needed.) (下記形式、仕様及び数量の選択は参考)

Die Clamp TX-type TX-型クランパー

With "U" Cut in die set 金型取付板U溝

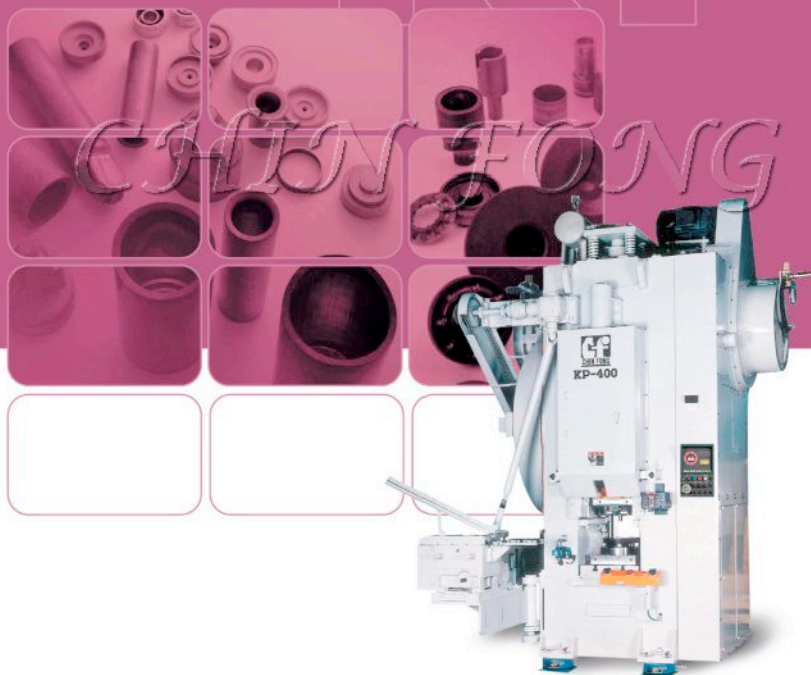
Die Clamp TY-type TY-型クランパー

Die plate thickness, H, to be specified 金型取付板厚 (厚さを確認下さい)

Option 選択配置		Qty 数量	Model 機種	SLX-160	SLX-200	SLX-250	SLX-300	SLX-400
ダイクランパー Die Clamp	Upper 上型	TX-4 or TY-4	Clamping Force 4 tons/pc	8	8	8	8	
		TX-6 or TY-6	Clamping Force 6 tons/pc					8
	Lower 下型	TX-2 or TY-2	Clamping Force 2 tons/pc	8	8			
		TX-4 or TY-4	Clamping Force 4 tons/pc			8	8	8
		TX-6 or TY-6	Clamping Force 6 tons/pc					
Die Lifter ダイリフター	DL28-600		Pay Load 1.4 tons/pc					
	DL28-700		Pay Load 1.5 tons/pc	4				
	DL28-800		Pay Load 1.6 tons/pc					
	DL28-900		Pay Load 1.8 tons/pc		4	4	4	4
Die Arm ダイアーム	RC-700-600		Pay Load 600 kg/pc	4				
	RC-800-800		Pay Load 800 kg/pc					
	RC-900-900		Pay Load 900 kg/pc		4	4	4	4
Hydraulic Power Unit 油圧パワーユニット FP6308U				1				



Knuckle-Joint 1-Point Presses



250. 400. 650. 1000. 1200. 2000. ton

Knuckle-Joint 1-Point Presses

Cold forge technology and Progression of Enterprise competition

In the past decade, when manufacturing a wide field of components for the industries of automotive, bicycle and the other categories of steel products, the metal forming has altering from the traditional process of 「Hot-forging → Cutting → Posterior-finishing → Products」 to following improved methods: 「Hot forging → Cold forging (thickness alteration) → Products」, 「Semi-hot forging → Cold-forging → Products」, and 「Unforged components → Products」. This progression returns to the Industries for so many advantages - reduced energy waste, more material saving, better quality stability, higher efficient productivity, and very economic manufacturing cost, the great expectation of Enterprises for the progressive competition so that can be satisfied. Especially concerning two essentials as required for the mass-production, the cold forge technology applies to the forming process of steel components without cutting its metal fibers and with stronger consistency strength given by a proper forging treatment.

Single Stage Forging Process

At single forging production, the pre-treatment for softening and lubrication to the parts is required before the parts ongoing for heat processes due to a hardened condition occurred after each forging. These intermediate treatments includes the anneal arrangements, shot-blasting, and danderizing or a sufficient lubrication process.



Specifications

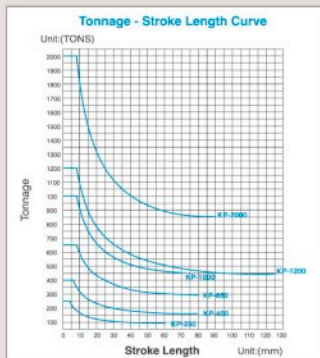
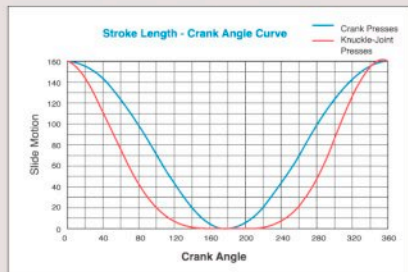
Type			KP-250	KP-400	KP-650	KP-1000	KP-1200	KP-2000
Main specifications								
Capacity		Tons	250	400	650	1000	1200	2000
Rated tonnage point		mm	4	6	8	8	8	8
Stroke length		mm	120	160	160	160	250	180
Strokes per minute	S.P.M.	Continuous	30~50	25~40	25~35	25~35	25~30	22~32
Die height (S.D.A.U.)		mm	370	400	400	500	600	550
Maximun upper die weight		kg	500	800	1000	1200	1200	2000
Bolster area (L-R x F-B)		mm	500X600	550X660	600X700	700X800	800X1000	1000X800
Slide area (L-R x F-B)		mm	400X420	400X500	450X550	480X650	800X800	800X700
Slide adjustment		mm	15	15	15	15	15	15
Bolster thickness		mm	100	120	150	180	200	250
Air Pressure Requirement		kg/cm²	5	5	5	5	5	5
Main motor		HPXP	V.S.25X4	V.S.50X4	V.S.75X4	V.S.100X4	V.S.100X4	V.S.150X6 Inverter
Accuracy			JIS (CNS) First Grade					
Bed knockout device								
Capacity		Tons	10	15	30	50	50	80
Stroke length		mm	50	60	70	70	100	80

2/3-Axis transfer unit

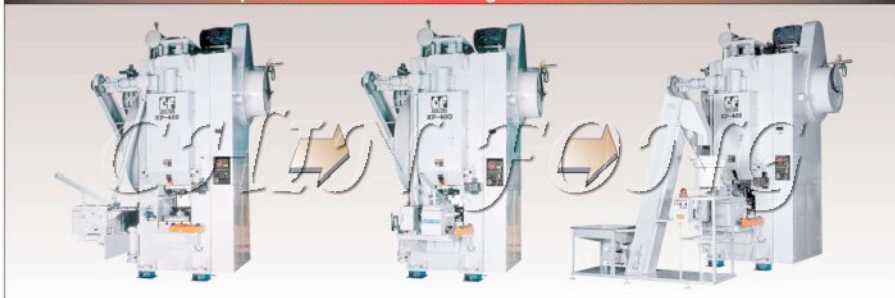
Model		KTF-145
Feed pitch	mm	145
Clamping stroke	mm	35
Lifting Stroke	mm	15
Inner distance between feed bars	mm	110
Strokes per minute	S.P.M.	40
Feeding direction	(front-to-rear)	Front to Rear

Characteristics of Knuckle-Joint Presses

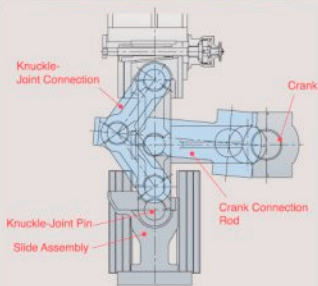
KT series Knuckle-Joint mechanism can alter the motion velocity of Slide to a slow speed when Slide is driven approaching to Bottom Dead-end Center (BDC) point. This special feature applies for the production of extrusion, coining, upsetting, sizing, forging, and heading.



The sequence of installation for fitting the automations to KP series



Slide Knuckle-Joint Mechanism

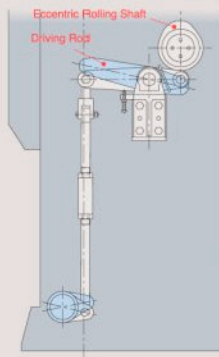


Slide Motion

Slide is connected to crank by two pieces of linked knuckle joints; its weights is offset by the adjustable pneumatic counterbalancer. This mechanism is to transit the revolution of crank to drive the slide for the movement of up and down strokes.

Bed Knockout Device

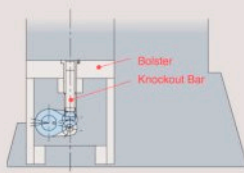
Side View from Frame Outer



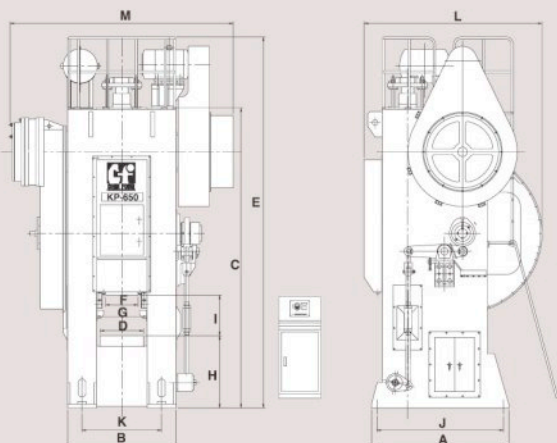
Bed Knockout Device

The knockout device installing beneath bolster of bed for taking the work-pieces out of the toolings is activated by a driving rod, which is connecting to the crank-driving eccentric rolling shaft.

View to Frame Inside



OUTLINE DIMENSIONS



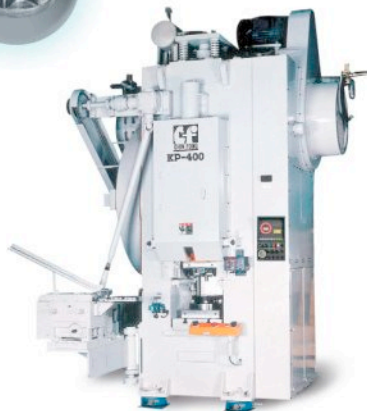
Model	A	B	C	D	E	F	G	H	I	J	K	L	M
KP-250	1650	1000	2015	500	3650	400	570	700	490	1530	780	1950	2100
KP-400	1700	1250	3540	550	4500	400	590	820	560	1570	950	2125	2640
KP-650	1900	1500	4150	600	5060	450	700	1000	560	1750	1100	2460	3095
KP-1000	2750	1720	5155	700	6234	480	820	1300	660	2590	1270	3160	4980
KP-1200	3050	2000	6075	800	7280	800	1000	1455	850	2890	1500	3450	5060
KP-2000	2950	3200	7080	1000	8000	800	1300	2030	730	2450	2900	5470	6480

Standard Functions / Accessories

- Counterbalancer Device
- Motorized slide adjustment with hydraulic locking unit
- Centralized Re-circulating Lubrication Device
- Overrun Protection Device
- Load Monitor
- APC-6000 system
 - Electric Crank Angle Indicator
 - Electric Speed Indicator
 - LCD type Operation Monitor
 - PRE-SET Counter (6-digit)
- 4-digit Die Height Indicator
- Missfeed Detection Consent
- Air Ejector (3/8")
- Air Receptacle (3/8")
- Maintenance Tool Kit
- Operating Manual and Inspection Report (in English)
- Portable 2-hand pushbutton T-stand

Optional Functions / Accessories

- Rotary Cam Switches
- Flywheel Brake Device
- Photoelectric Safety Device
- Bed Knockout Device
- Motorized Grease Device
- Spare Rotary Cam Switches
- Inverter
- Foot Switch
- Lights for Tooling Area
- 1 phase 110V Power Receptacle
- 1 phase 220V Power Receptacle
- Anti-Vibration Mounts
- Anchor bolts and plates
- Dual-coiled Solenoid Valve
- Quick Die Change System
 - Upper Die Clamp
 - Lower Die Clamp
 - Die Lifter
 - Extension Arm
- Auto Feeding System
- Remote Monitoring & Control System



COLD FORGING

1. Near-net-shape forming

In comparison to sheet metal forming, the cold forging technology can reduce the material waste from 40% up to 60% to compare with hot forge, 20% up to 40% material saving can be achieved.

2. Better mechanical characteristic

Through the cold-forge procedure, the grain structure of steels is mini-eliminated to reinforce its resistance strength about two times. This advantage can improve the materials with a better mechanical characteristic closer to tolerances, thus a lower cost material is allowed to be adapted for the cold forging production.

3. Superior plasticity

The easily strain-breaking metals will obtain the satisfactorily stronger consistency by having the treatments of forming, forging, and stress relieving, so the metal materials with a high plasticity ideally suitable for a less posterior machining is achievable.

4. Better surface quality

The cold forging can make the surface quality of the products to reach to the μ range.

5. Higher productivity

Work-pieces with the irregular thickness or the complex shapes such as trapezoid, core, or hollow cylinder, etc., which is extremely difficult to produce by the cutting forming, can be easily formed by cold forging technology.



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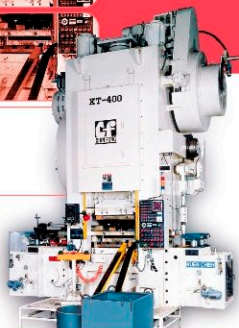
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Knuckle-Joint Cold Forging Presses



400. 650. 800. 1000. ton

Cold Forging Knuckle-Joint Auto-Transferring Presses

Cold forge technology and Progression of Enterprise competition

In the past decade, when manufacturing a wide field of components for the industries of automotive, bicycle and the other categories of steel products, the metal forming has altering from the traditional process of 「Hot-forging→Cutting→Posterior-finishing→Products」 to following improved methods: 「Hot forging⇒Cold forging (thickness alteration)→Products」, 「Semi-hot forging→Cold-forging→Products」, and 「Unforged components→Products」. This progression returns to the industries for so many advantages - reduced energy waste, more material saving, better quality stability, higher efficient productivity, and very economic manufacturing cost, the great expectation of Enterprises for the progressive competition so that can be satisfied.

Especially concerning two essentials as required for the mass-production, the cold forge technology applies to the forming process of steel components without cutting its metal fibers and with stronger consistency strength given by a proper forging treatment.

Single forging and Progressive multi-stage forging

At single forging production, the pre-treatment for softening and lubrication to the parts is required before the parts ongoing for next processes due to a hardened condition occurred after each forging. Nevertheless, above-mentioned intermediate treatments are not necessary and can be avoided for the production of progressive multi-stage forging. What more, this kind of production offers:

1. Cost saving for the forming process without intermediate treatments
2. A room for storing semi-forged parts and manpower for managing of that work is not required.
3. The productivity of progressive multi-stage forging is triple times above single forging.
4. KT series is designed to accept and to combine with the various automations; thus, a minimized operation manpower, even a no-manual-control production, can be achieved.

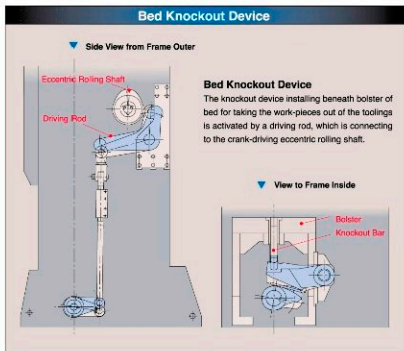
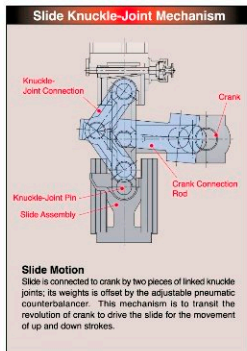
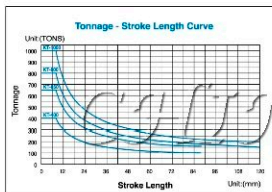
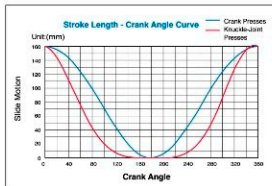


Specifications

MODEL		KT-400	KT-650	KT-800	KT-1000
Main Specifications					
Capacity	Tons	400	650	800	1000
Rated tonnage point	mm	8	8	8	8
Stroke length	mm	180	180	250	250
Strokes per minute	S.P.M.	Continuous	25-40	25-35	25-35
Die height (S.D.A.U)	mm	550	550	650	670
Bolster area (L.R.XF.BXT)	mm	700X700X120	800X800X150	1100X800X170	1100X800X180
Slide area (L.R.XF.B)	mm	680X700	780X800	1080X800	1080X800
Slide open (F.B.X.H.)	mm	500X500	550X630	700X730	700X730
Slide adjustment	mm	15	15	15	15
Keep the air pressure	Kg/cm ²	5	5	5	5
Main motor	HP×P	V.S.50X4	V.S.100X4	V.S.100X4	V.S.125X4
Precision		JIS (CNS) First Grade			
Bed Knockout					
Capacity	Tons	10X3=30	15X3=45	12X5=60	12X5=60
Stroke	mm	60	70	70	70
3-Axis Transfer Unit					
MODEL		VTF-170	VTF-200	VTF-200	VTF-200
Feed pitch	mm	170	200	200	200
Clamping stroke	mm	50	60	60	60
Lift stroke	mm	20	20	25	25
Inner distance of feed bars	mm	240	270	360	360
Feed line height	mm	270	300	300	300
Strokes per minute	S.P.M.	30	30	30	30
Feed bar sectional profile	mm	70X70	75X80	100X100	100X100
Feed direction (left to right)		Left to Right			

Characteristics of Knuckle-Joint Presses

KT series Knuckle-Joint mechanism can alter the motion velocity of Slide to a slow speed when Slide is driven approaching to Bottom Dead-center (BDC) point. This special feature applies for the production of pressing, embossing, forging, and shaping.





❶ 1. Near-net-shape forming

In comparison to sheet metal-forming, the cold forging technology can reduce the material waste from 40% up to 60%; to compare with hot forge, 20% up to 40% material saving can be achieved.

❷ 2. Better mechanical characteristic

Through the cold-forge procedure, the grain structure of steels is mini-eliminated to reinforce its resistance strength about two times. This advantage can improve the materials with a better mechanical characteristic closer to tolerances, thus a lower cost material is allowed to be adapted for the cold forging production.

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The easily strain-breaking metals will obtain the satisfactorily stronger consistency by having the treatments of forming, forging, and stress relieving, so the metal materials with a high plasticity ideally suitable for a less posterior machining is achievable.

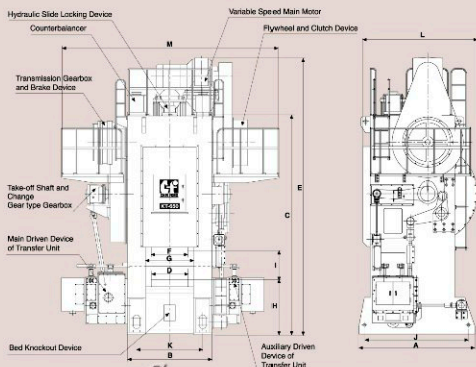
❹ 4. Better surface quality

The cold forging can make the surface quality of the products to reach to the μ range.

❺ 5. Higher productivity

Work-pieces with the irregular thickness or the complex shapes such as trapezoid, core, or hollow cylinder, etc., which is extremely difficult to produce by the cutting forming, can be easily formed by cold forging technology.

OUTLINE DIMENSIONS



Model	A	B	C	D	E	F	G	H	I	J	K	L	M
KT-400	2100	1620	4215	700	5250	700	920	1050	730	1900	1270	2240	4510
KT-650	2550	1850	4830	800	5952	800	1050	1200	730	2300	1450	2505	4750
KT-800	3250	2250	6070	1100	7220	1080	1350	1250	900	3090	1800	3275	5305
KT-1000	3400	2250	6205	1100	7040	1080	1350	1300	920	3240	1800	3410	5345

Standard Functions / Accessories

- Slide and Counterbalancer Device
- Slide Adjusting Motor with Hydraulic Locking Unit
- Centralized Re-circulating Lubrication Device
- Overrun Protection Device
- Load Monitor
- Motorized Grease Device
- APC-6000 system
 - Electric Crank Angle Indicator
 - Electric Speed Indicator
 - LCD type Operation Monitor
 - PRE-SET Counter (6-digit)
- 4-digit Die Height Indicator
- Misfeed Detection Consent
- Swivel type Operation Stand
- Air Ejector (3/8")
- Air Receptacle (3/8")
- Maintenance Tool Kit
- Operating Manual and Inspection Report (in English)
- Operation T-stand

Optional Functions / Accessories

- Clock type Crank Angle Indicator with Arrow Pointer
- Programmable Logic Control System
- Flywheel Brake Device
- Photoelectric Safety Device
- Bed Knockout Device
- Spare Rotary Cam Switches
- Inverter
- Foot Switch
- Lights for Tooling Area
- 1 phase 110V Power Receptacle
- 1 phase 220V Power Receptacle
- Anti-Vibration Mounts
- Anchor bolts and plates
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提供客戶高附加價值之溫熱間鍛造沖床

金豐研發製造之溫熱間鍛造沖床，可廣泛應用於汽車、機車零件、工具、家電、醫療器材、電動機部品、國防工業等。因兼具冷間及熱間鍛造製程之優點，不但可減少加工製程這達到降低製造成本之目的，更可提高客戶產品之附加價值。

Providing our customers with the ability to produce high-value-added parts on Warm Hot Forging Presses

The Warm Hot Forging Process manufactured and developed by Chin Fong Industrial Co. can be widely apply to automotive vehicle components, tools, household appliances, medical equipments, motors and national defense industry etc. This process provides the strength of cold and hot forming, yet shortens the forming process and adds more value to the finished product.

高品質、高效率 High quality, high efficiency

利用補強桿可使一體式台身具高剛性的特性，並確保鍛造精度。

Strong tie rod construction makes the frame highly rigid and guarantee forging precision.

WF1-G配備有齒輪齒輪，使滑塊動作速度可放慢，因此適合鍛打鋁合金類的長工件。

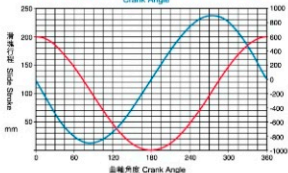
WF1-G (with geared transmission), is suitable for forging long aluminium alloy.

具熱對稱特性以及潤滑油的滑塊導路，可減少溫度變化所產生的間隙變化大小，並確保鍛造工件的公差。

Thermal symmetry and lubricative slide gibbing reduce the unwanted clearances caused by excessive temperature change, and guarantee the tolerance of the forging workpiece.



溫熱間鍛造沖床(WF1&WF1-G系列)行程-曲軸角度圖
Warm Hot Forging Presses (WF1&WF1-G Series) Stroke Length-Crank Angle



主規格 Specifications

機型 MODEL	WF1-400	WF1-600	WF1-600G	WF1-800	WF1-800G	WF1-1000	WF1-1000G	WF1-1600	WF1-1600G
能力 Capacity	Tons	400	600	800	800	1000	1000	1600	1600
能力發生點 Rated Tonnage Point	mm			5	5			6	6
行程長 Stroke Length	mm	175	200	250	250	250	300		
行程數 Strokes Per Minute	SPM	100	95	85	85	85	70		
	CPM	18	18	16	18	16	16	16	
滑塊調整量 Slide Adjustment	mm			10	10				
最大模高 Die Height(S.D.A.U)	mm	505	550	650	650	700	800		
滑塊面積 Slide Area(L×F.B)	mm	595×555	695×635	800×790	800×790	945×800	1080×1040		
台墊面積 Bolster Area(L×F.B)	mm	770×840	880×880	980×1000	980×1000	1100×1050	1200×1200		
側面開口 Side Opening	mm	450×450	500×500	600×600	600×600	700×650	900×750		
主電動機 Main Motor	HP×P	40×8	50×8	60×6	60×8	75×6	75×8	100×6	150×10
滑塊調整電動機 Slide Adjusting Motor	Kw×P	0.4×4	0.4×4	0.75×4	0.75×4	0.75×4	1.5×4		
上頂料能力-行程 Size Knocks Capacity-Stroke Length	Tons-mm	6×20	6×20	6×40	6×40	8×30	8×40		
下頂料能力-行程 Size Knocks Capacity-Stroke Length	Tons-mm	20×40	30×40	30×50	30×50	50×40	50×60		
空氣壓力 Air Pressure	kg/mm ²			5	5				

* 選用功能 / 配件 (Optional Functions / Accessories)

溫熱間鍛造沖床(WF1系列)之特點

Characteristics of Warm Hot Forging Presses(WF1 series)

高強度合金鋼鍛造偏心軸 Highly alloy forged steel eccentric shaft

偏心軸採用高剛性、高強度的合金鋼鍛造，確保鍛造製品的尺寸與精度。

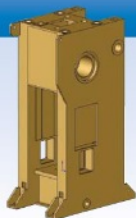
The eccentric shaft, forged with highly rigid alloy steel, guarantees the precision of the forging products.



高剛性、強度可靠之台身 Highly rigid, durable frame

一體式焊接結構加補強桿固鎖的台身，可有效抵抗熱膨脹，主板採用超厚鋼板牢牢焊接在鑄造結構的底座上，提供沖壓時的高剛性。

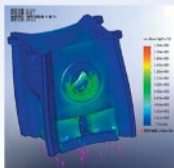
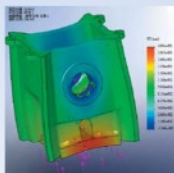
Integrated welding-structure frame locked tightly by strong tie rods effectively resists thermal expansion. The main frame is constructed of thick steel plate and welded to the cast steel base to provide high rigidity while pressing.



滑塊CAE應力分析，確保高剛性、高強度 Slide CAE stress analysis guarantees high rigidity and tenacity

利用有限元素分析(FEA)軟體，進行CAE應力分析，提供客戶優越的滑塊剛性設計。

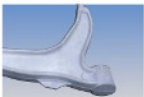
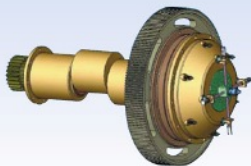
Applying Finite Element Analysis(FEA) software to implement the CAE stress analysis provides a superior, rigid slide design.



WF1-G系列皆有傳動齒輪，適合鍛打鋁合金類的長工件 WF1-G series geared with transmission system reduces slide velocity making it suitable for forging long, aluminum alloy parts

WF1-G系列配屬有傳動齒輪，使滑塊動作速度可放慢，因此適合鍛打鋁合金類的長工件。

WF1-G series equipped with transmission gear can slow down the slide movement. Therefore, they are suitable for forging long aluminum alloy workpiece.



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Multi-Purpose Link Drive Servo Motion Presses

DLS



110. 160. 200 ton

DLS

Multi-Purpose Link Drive Servo Motion Presses

*One Machine,
Multi-Purpose*

*One Cycle, Multi-
Segment Curves*

*Energy Saving,
Environmental Friendly*

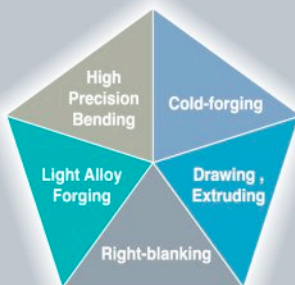


SPECIFICATIONS

MODEL		DLS-110		DLS-160		DLS-200	
Type		S	H	S	H	S	H
Capacity	Tons	110		160		200	
Rated tonnage point (above B.D.C)	mm	5	5	6	6	6	6
Stroke length	mm	150	110	200	130	200	150
Strokes per minute	SPM	~65	~100	~50	~85	~45	~70
Die height (S.D.A.U)	mm	350	320	400	350	450	410
Slide area (L.R x F.B.)	mm	650x520		700x580		850x650	
Bolster area (L.R x F.B.)	mm	900x700		1000x750		1150x850	
Bolster thickness	mm	120		150		160	
Side opening	mm	750x500		800x560		900x610	
Slide adjustment	mm	90		100		110	
Slide adjusting motor	HPxP	0.5(0.4Kw)x4		1(0.75Kw)x4		1(0.75Kw)x4	
Die Cushion							
Capacity	Tons	8		10		14	
Pad area (L.R. x F.B.)	mm	500x300		540x350		640x470	
Stroke	mm	80		80		100	

Features of servo drive press

Wider Forming Application



Cost Reduction

Prolonging press machine life
Disuse of die setter
Improvement of output

Die Improvement

Prolonging drastic die life
Complete protection of missed (double) punch in missed feed
Optimized parameter setting feature for complicated structure die (multiple cam type, compound forward transfer type and inner tapping type)

Raise Efficiency

Much slower forming time and much faster non-forming motion to raise production rate.

Increase Accuracy, Stability

Preset optimum motion curve according to forming character to increase accuracy and stability of product.

Noise and Vibration Reduction

The feature that can reduce motion speed drastically as soon as upper die touches material and can reduce breakthrough extremely achieves both steel plate blanking noise and vibration realizing next to "zero"

Safety Measure

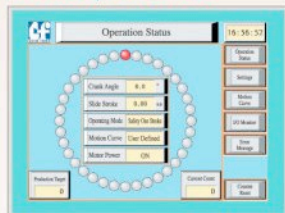
The Digital Forming has a slide of low inertia servo driven system. The machine without air solenoid valves for clutch and brake control. eliminates possibility of accidents.

Energy Saving

Press power on/off operation such as single stroke or robot operation especially, can save consumption of electric power because of low start-up electric power. The press itself consumes practically no air (except optional equipment).

Intelligent Touch Panel

Humanized Operation Interface



User Defined Motion Curve



I Operating Status Monitoring

1. Press Motion Detector monitors excessive wear of lining, Encoder signals, and Brake Engagement to ensure press operating safety.
2. Real time, One-Page HMI Displayed Servo Motor loading status: Ampere, Torque, and Temperature.
3. HMI Displayed Error Message with Trouble-Shooting and History.
4. Real time I/O Status Monitor.

II Motion Curves

1. 4 Built-in Motion Curves for ready applications.
2. User Defined Motion Curve: upto 20 various segments in a cycle curve can be defined by segment position, speed and pause duration parameters so as to meet complicated process requirements.

III Electrical Angle Control

1. Electrical CAM Switches are set and monitored thru HMI screen.
2. 8 spare cams available with upto 32 channels expansion capability.

IV Operation Counters

1. Standard operation counters including Preset Counter and Life Counter.
2. Batch Counters and Cutting Scalar can be added optionally.

V Provisional Interface for Peripheral Devices

CAM angel controlled misfeed detection circuits A1 & B1 can be used as ON/OFF range setting, and A2 & B2 can be set for all-time detection. Both A and B port can be individually set for serial detection.

4 Built-in Motion Curves for ready applications.



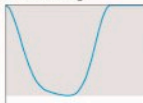
Deep Drawing



Die Heating



Sheet Forming



Feeding Automation

Eliminates conventional press operation's bottleneck and increases added value.

The Digital Forming Multiplies Benefits

- **Improvement of Drawing Rate**

Securing operation step reduction in multiple drawing operation
Drastic extension of one shot drawing range.

- **Improvement of Bend Accuracy**

The Bottom Dead Center dwelling feature reduces material spring-back extremely.

- **Right Blanking Capability**

Right blanking (simplified fine blanking) can be easily made with standard die cushion thrust force under normal die structure. All needed is just reducing die clearance.

- **Improvement of Extruding Forming Ability**

Available of optimized operation speed setting for forward and backward extrusion to meet with material. Knockout (upper and lower) mechanism is also simplified.

- **Applicable to Print Circuit Board Blanking**

- **Compound Processing Capability with Single Die**
(three-step forward transfer and inner tapping)

- **Possibility of Changing in Cutting Operation Procedure**

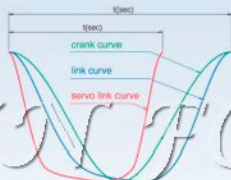
Innovation conception for the conventional presses' drive being substituted by servo motor

The Digital Forming Innovates Your Image of New Century's Press Machine

Shift From Slide Angle Concept to Position Concept



Ultimate Motion-Generated From Optimized Parameter Setting For Motion And Motion Time.



Slower The Part Forming Portion As Much As Possible, While Faster Other No-Forming Motion As Much As Possible!

Free Preset

- **Motion Speed**
- **Operation Start Angle**
- **Bottom Dead Center Dwelling Time**
- **Forming Start Angel**

Driven by the press designated servo drive motor-high torque with the full energy at low speed, able to stabilize

Slide motion and tonnage

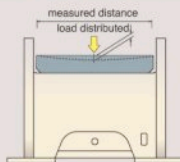
Free setting forming curve is available with "Jog Pulse" in the compliance of the requirement for all kinds of forming-blanking, bending, drawing, extruding, also the productive is increased greatly

Box Type Six-Point Gib

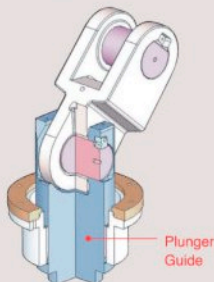


One-piece, full-length, box type gibs assure actuated slide guiding. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.

Minimize Frame Deflection



Plunger Guided



- Lateral force occurred during press operation will be absorbed by PLUNGER GUIDE.
- Close structure in crown by using plunger guide not only provide perfect structure strength, reduce gear noise but also avoid intrusion of unexpected parts.

BOLSTER

Fig. 1

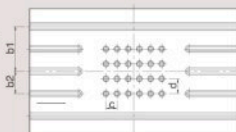


Fig. 2



Fig. 3

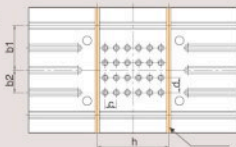


Fig. 4

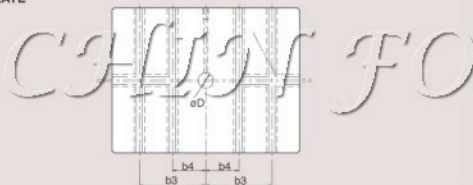


with "U" slot for die lifter

unit: mm

MODEL	DLS-110	DLS-160	DLS-200
Type of T-Slot	B	B	B
No. of Pin Hole	3	3	5
No. of Pin Hole x Dia.	20 x $\phi 28^{+0.5}_{-0.1}$	24 x $\phi 28^{+0.5}_{-0.1}$	30 x $\phi 28^{+0.5}_{-0.1}$
c x d	90 x 90	90 x 90	100 x 100
b1	200	225	265
b2	-	-	115
e x f	400 x 200	440 x 220	480 x 240
R	30	30	30
g	480	520	580
h	450	360	400

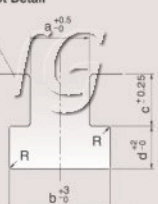
SLIDE PLATE



unit: mm

MODEL	DLS-110	DLS-160	DLS-200
Slide Plate Area (LR x FB)	650x520	700x580	850x650
Type of T-Slot	B	B	B
No. of T-Slot	2	4	4
Shank Hole Dia. D	$\phi 50$	$\phi 65$	$\phi 65$
b3	150	300	300
b4	-	150	150

T-Slot Detail



unit: mm

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

Standard Functions / Accessories

- Portable 2-hand Pushbutton T- Stand
- Operation Mode Selection
Off / Inching / Safety One Stroke / Continuous
- Hydraulic Overload Protector(H.O.L.P.)
- Overrun Detector (Brake Monitor)
- Dual-coiled Solenoid Valve
- Motorized Slide Adjusting Device
- Digital Die Height Indicator (unit:0.1mm)
- Manual Grease Pump
- Air Ejector, 3/8", one channel
- Air Source Receptacle, 3/8", one channel
- High Torque Servo Motor
- Wet type brake
- Touch Panel
- Oil Lubrication for Link Drive Mechanism

Optional Functions / Accessories

- Die Cushion
- Safety Light Curtain
- Slide Knockout Device
- Motorized Grease Pump
- Safety Block with plug
- Automation Air Circuit 3/8"
- Quick Die Change System
 - Upper Die Clamps
 - Die Lifters
 - Lower Die Clamps
 - Die Arms
- Anti-vibration Press Mounts
- Die Room Light
- Bottom Dead Center Accuracy Detector



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MALAYSIA: CHIN FONG MACHINE (M) SDN BHD

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Cold & Semi-hot forging Link-Motion with Knuckle presses

兼具冷間及溫間鍛造製程之優點，配合連續加工設備，更有利於厚板加工與板材引伸之順送工程，提供更高附加價值之產品。

複合式濕式離合剎車器，在長時間使用下無需更換來令片，且無粉塵產生及低噪音特性，有助於提升工作環境品質。

Chin Fong's cold and semi-hot forging press, especially when coupled with feeder and transfer equipment, is effective and efficient in forging and drawing thick sheet material.

Wet clutch delivers high torque and performance at relatively low air pressure. friction linings run in an enclosed oil bath, providing a very long lived clutch and brake with efficient heat dissipation, low vibration, minimal noise, reduced lining wear, and lower air consumption, even at high single-stroke rates of production.

3C產品(具引伸、大面積之加工件，如手提電腦外殼)五金類。

Ideal for producing metal covers, stamping and drawing for 3C products (ex. laptop case and hardware).

厚板之沖壓、彎曲、引伸成型加工，汽機車零件之厚板零件下料，如齒盤沖壓。

Good for thick steel plate stamping, bending, and drawing in motor vehicle component, (ex. gear stamping).

加大寬度的床面設計，適合搭配連續送料裝置以達自動動化生產。

Large bed dimensions combined with an integrated feed system are well-suited for automotive production.

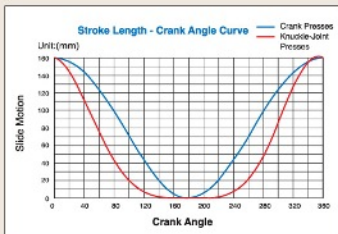
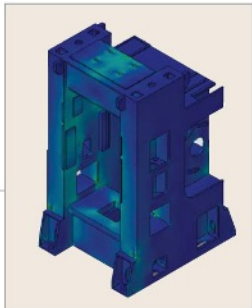


主規格 Specifications

機型			KW1-300	KW1-500	KW1-650	KW1-800
最大加壓能力	Capacity	Tons	300	500	650	800
能力發生點	Rated Tonnage Point	mm	8	8	8	8
行程長	Stroke Length	mm	120	150	150	250
行程數	Stroke Per Minute	SPM	20~40	20~40	20~40	20~35
滑塊調整量	Slide Adjustment	mm	15	15	15	15
最大模高	Die Height	mm	450	450	450	650
台盤面積 (LR × FB)	Bolster Area	mm	1100 × 950	1250 × 1000	1500 × 1000	1500 × 1000
台盤厚度	Bolster Thickness	mm	180	220	220	250
滑塊面積 (LR × FB)	Slide Area	mm	1100 × 850	1250 × 1000	1500 × 1000	1500 × 1000
工作面高度	Working Height	mm	900	1185	1265	1300
側面開口	Side Opening	kg	600 × 570	600 × 570	600 × 570	600 × 770
最大上模重	Max. Upper Die Weight	mm	1000	1500	1750	1750
主電動機	Main Motor	HP × P	V.S. 30 × 4	V.S. 50 × 4	V.S. 60 × 4	V.S. 75 × 4

高剛性 台身設計，變形率小於1/8000，可有效降低沖壓時產生的台身變形量。針對重要零組件進行FEM有限元素分析，如台身、曲軸、連桿、滑塊...等，可更精準的掌握每個重要部位的受力條件及變形，有助於實現最佳化設計。

High rigidity design offers a deformation/deflection rate of less than 1/8000 FEM (Finite Element Method) is used in product design to provide quality and accuracy in all key components (ex. frame, crank, link, slide, etc.), and to ensure the integrity of the final product.



肘節式連桿機構，下死點停留時間長，利於延長塑性成型時間，減少材料在成形加工時的回彈角。加工減速度低，特別適用於製品引伸、壓印、下料...等沖壓工程。

Knuckle-joint drive system creates a unique slide motion curve which extends the time for forming and also prevents "spring-back" of material. The slide motion creates low slide velocity through the work, allowing the material to flow and set better.

KW1-系列沖床可以進行板金的沖壓製程(下料、引伸、彎曲及局部成形製程)及冷間鍛造製程(壓扁/鍛粗製程、擠伸、引縮、壓印成形製程)複合法，達到板材的近淨成型沖鍛複合加工。

KW1 series combine press forging (ex. Blanking, drawing, bending and partial forming) and cold forging (ex. upsetting, extrusion, ironing and coining) in order to achieve fine blanking, near-net-shaping and press forging for sheet material.



沖壓機械專業製造廠

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URL: /www.stamtec.com





High Precision Progressive Knuckle Presses

KW2

CHIN FONG



260. 400. 600. 800. 1000. 1200 ton

KW2

High Precision Progressive Knuckle Presses

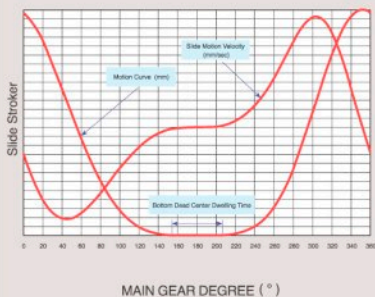
- High rigidity \ minimum deflection.
- Knuckle-joint mechanism longer BDC dwelling time, high precision.
- Designed for thicker materials' Net-shape blanking & coining.
- Optimized frame structure.
- Improve precision of products.
- Prolong tooling life.
- Improve quality and stability of high precision products.
- Capable for wider stamping application.
- Reduce noise & vibration, improve quality of working environment.



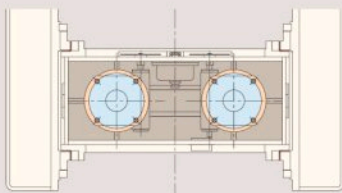
ISPECIFICATIONS

MODEL		KW2-260	KW2-400	KW2-600	KW2-800	KW2-1000	KW2-1200
Capacity	Ton	260	400	600	800	1000	1200
Rated tonnage point (above B.D.C)	mm	8	8	8	8	8	8
Stroke length	mm	120	160	200	200	250	250
Strokes per minute	Fixed	SPM	35	35	35	30	30
	Variable	SPM	(25) 35~50	25 (35)~50	25~45	25~40	20~35
Die height (S.D.A.U)	mm	450 (490)	450 (580)	600	650	650	650
Slide adjustment	mm	50 (30)	75 (50)	100	120	120	150
Slide area (L.R x F.B.)	mm	1300 x 750	1600 x 900	2150 x 1250	2250 x 1300	2500 x 1400	2500 x 1400
Bolster area (L.R x F.B.)	mm	1300 x 750	1600 x 900	2150 x 1250	2250 x 1300	2500 x 1400	2500 x 1400
Slide Opening	mm	400 x 400	800 x 600	1300 x 875	1400 x 875	1450 x 875	1450 x 875
Main motor	Fixed	HP x P	40 x 4	75 x 4	125 x 4	175 x 4	250 x 4
Slide adjusting motor	KW x P	1.5 x 4	3.7 x 4	3.7 x 6	7.5 x 6	7.5 x 6	7.5 x 6
Working height	mm	1196	1135	850	650	850	650

Motion curve

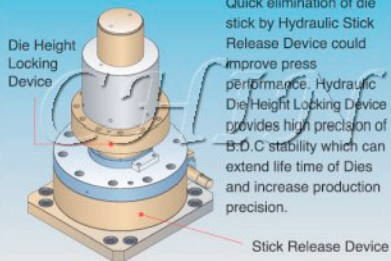


Precise, 8-point, gibbing

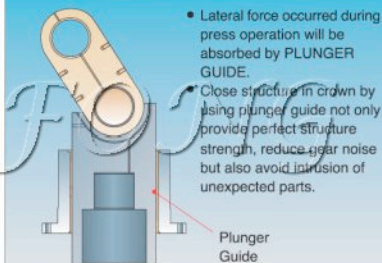


- Extra long, 8-point gibbing, bearing higher off-center loads
- High precision
- Frame provides full support to the lateral force directly
- Prolong tooling life

Stick Release & Die Height Locking Device



Plunger Guided



Press Control system

I .Electrical system function

1. Well-Known control components are adopted for expansion and maintenance.
2. Open PLC control logic structure provides high convenience and capability control system.

II .Operation Status Monitoring

1. Motion detector monitors broken shaft, crankshaft, excessive wear of lining, engagement and disengagement of clutch and brake device.

III .Electronic Angle Control

1. RESOLVER position detectors are adopted to resist interference \ vibration and memory lose caused by power failure.
2. Brake Compensation is equipped with automatic slip-angle correction within a limited range against inaccurate TDC stop position caused by lining wear and change of slide speed.

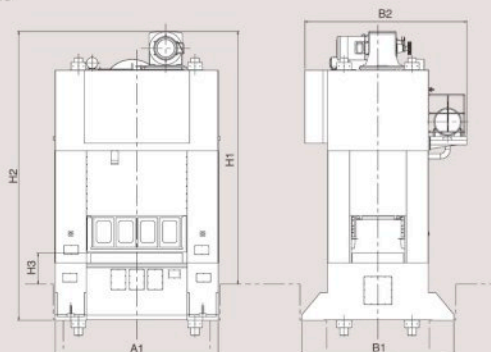
IV .Counters

1. Pre-set counter and life counter are all provided.
2. Chop counter and batch counter are optional

V .Provision of interface for peripheral equipment

1. To provide all types of communication interface for remote product control management (optional)
2. To provide robot \ feeder and servo system equipments (optional)
3. To provide temperature detecting equipment for crank shaft (optional)
4. To provide press tonnage monitoring equipment (optional)

OUTLINE DIMENSIONS



unit: mm

MODEL	KW2-260	KW2-400	KW2-600	KW2-800	KW2-1000	KW2-1200
A1	2450	2900	3840	3930	4510	4650
B1	2550	2420	4120	4130	4150	4400
B2	2050	2920	4147	3990	4353	4835
H1	4874	5610	6122	6220	6893	6900
H2		5925	6797	7400	7872	8465
H3	1196	1135	850	650	850	650



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CHIN FONG

STD

**Straight Side Double Crank
Power Presses**

閉式雙曲軸高剛性沖床



200.250. 300. 350. 400. 500. 600. 800 ton

STD

Straight Side Double Crank
Power Presses

閉式雙曲軸高剛性沖床

多樣化傳動結構

*Versatile, optimized transmission
deployment*

強扭力傳動系統

High torque transmission system

超高剛性台身

Super Rigid Frame



主要規格 MAIN SPECIFICATIONS

型 式 Model		STD-200		STD-250		STD-300		STD-350		STD-400		STD-400				STD-500			
		S	H	S	H	S	H	S	H	S	H	C				S	H		
最大加壓能力 Capacity	TONS	200		250		300		350		400		400				500			
能力發生點 Rated Tonnage Point	mm	9	7	9	7	9	7	13	7	13	7	7	9	7	9	13	7	8	
行程長 Stroke Length	mm	250	150	300	200	300	250	350	250	400	250	300	400	300	400	400	250	250	
行程數(連續) Strokes Per Minute	S.P.M	20-50	50-90	15-40	30-70	15-40	30-60	15-40	30-60	15-30	30-60	20-40	15-25	20-40	15-25	15-30	30-60	15-35	
最大模高 Die Height (S.D.A.U.)	mm	500		600		600		600		700		650	700	650	700	700		600	
滑塊面積 (左右×前後) Slide Area (L.R. x F.B.)	1	mm	1550x1100		2200x1200		2200x1200		2550x1400		2550x1400		2500x1300				2550x1550		2700x
	2		1850x1100		2500x1200		2500x1200		2800x1400		2800x1400						2800x1550		
	3		2200x1100		2800x1200		2800x1200		3100x1400		3100x1400						3100x1550		
	4		2500x1100		3100x1200		3100x1200		3400x1400		3400x1400						3600x1550		
台身面積 (左右×前後) Bolster Area (L.R. x F.B.)	1	mm	1550x1100		2200x1200		2200x1200		2550x1400		2550x1400		2500x1400				2550x1550		2700x
	2		1850x1100		2500x1200		2500x1200		2800x1400		2800x1400						2800x1550		
	3		2200x1100		2800x1200		2800x1200		3100x1400		3100x1400						3100x1550		
	4		2500x1100		3100x1200		3100x1200		3400x1400		3400x1400						3600x1550		
滑塊調整量 Slide Adjusting Range	mm	150		150		200		200		250		150				250		150	
台身形式 Frame Type		一體式 One-piece		一體式 One-piece		3 分割 Tie-rod		3 分割 Tie-rod		3 分割 Tie-rod		3 分割 Tie-rod				3 分割 Tie-rod			

金豐直柱型沖床，適用多樣化之金屬成形工業上的各種需求，舉凡連續沖壓與自動移送沖壓，皆可完全依客戶需求量身打造，或選擇已量產化之標準規格機種。金豐沖床操作之便利性可以符合各種操作模式，符合今日世界製造業之種種需要，金豐之專業團隊能夠協助您規劃並選擇適合您產業需要之沖壓設備。

Chin Fong straight side presses deliver high performance for diversified stamping requirements in progressive and transfer die operations. Built to your exact specifications, or available in several standard models, Chin Fong presses can be efficiently operated in various modes to achieve the efficiency and productivity required to compete in today's demanding Chin Fong's manufacturing environment. Chin Fong experienced team can help you make a wise decision in choosing the right stamping equipment for your operation.

提供多樣化傳動結構選擇方便適用客戶各種沖壓條件

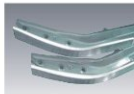
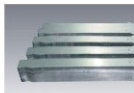
Drive Arrangements to Meet Diversified Stamping Needs

我們的研發單位經過仔細研究評估，設計符合各種不同沖壓工程需求之傳動結構，適用各種工程如下料，引伸，成形，符合各種生產要求。

Chin Fong presses employ a variety of drive arrangements depending on the application requirements and application types such as blanking, drawing or forming, production volumes required, etc.



STD-500			STD-600			STD-600			STD-800			STD-800		
C			S	H	C			S	H	C				
500			600			600			800			800		
12	8	12	13	9	8	12	8	12	13	9	8	12	8	12
400	250	400	400	250	250	350	250	350	400	250	250	350	250	350
15-25	15-35	15-25	15-30	25-50	20-35	15-25	20-35	15-25	15-30	25-50	20-35	15-25	20-35	15-25
840	600	840	700		700	900	700	900	700		800	1000	800	1000
1400	3400x1400		2550x1550		3600x1400	4600x1400			3400x1800		3600x1500		4600x1400	
			2800x1550						3800x1800					
			3600x1550						4200x1800					
			4600x1550						4600x1800					
1500	3400x1500		2550x1550		3600x1500	4600x1500			3400x1800		3600x1600		4600x1500	
			2800x1550						3800x1800					
			3600x1550						4200x1800					
			4600x1550						4600x1800					
250	150	250	250		200	250	200	250	250		200	250	200	250
3 分割 Tie-rod			3 分割 Tie-rod			3 分割 Tie-rod			3 分割 Tie-rod			3 分割 Tie-rod		





超高剛性台身 Super Rigid Steel Frame

金豐沖床高剛性結構方正，超高強度，低應變鋼材焊接台身，確保在公稱能力範圍下，用戶可進行各種不規則工件之連續沖壓，高剛性結構符合高精度模具沖壓，可延長模具壽命。台身設計可採補強桿式，台身先行產生預壓減少沖壓時產生的變形，小床面沖床採一體式台身減少搬運與客戶端組立成本。加大側面開口適合自動移送裝置及送料機安裝使用。

Chin Fong rugged press frames are rigid, box type fabricated steel structures designed for exceptional strength and low deflection, assuring continued alignment of components. This rigidity provides greater accuracy and helps extend die life. When required or specified, pre-stressed tie rod construction is employed to assure frame deflection during stamping processes is minimized. In smaller presses the frame components are welded together instead of tie-rod constructed, to form a single-piece unitized frame. Large window openings are provided to permit coil or transfer feeding across most or all of front to back dimension of the bed.



強扭力傳動系統 Robust drive train systems

沖床之齒輪於成形後採研磨，其高精密，有效減低噪音，延長壽命，曲軸採用高碳鋼材質鍛造，精密加工，傳動軸採用高碳鋼材料，經調質熱處理硬化研磨，呈現最高品質。所有傳動組件材料，精選特種鋼，高性能，耐久，耐損特質之材料，保用經年。

The gears on Chin Fong presses are hardened and precision ground for quiet performance and extended life. Crankshafts are machined and precision ground from high carbon steel forgings, and normalized to eliminate harmful stress concentrations. Main and crankshaft bearing surfaces are manufactured from alloys chosen based on the specific application. All materials used are selected to provide superior strength, performance, and wear resistance characteristics.



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1004 C/030 AC Design / 04-27071158

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HSD

Series



**Straight Side
HIGH SPEED
DOUBLE CRANK
PRESSES**

CHIN FONG



60. 80. 125. 200. 300. ton

Series

**Straight Side
HIGH SPEED DOUBLE CRANK**

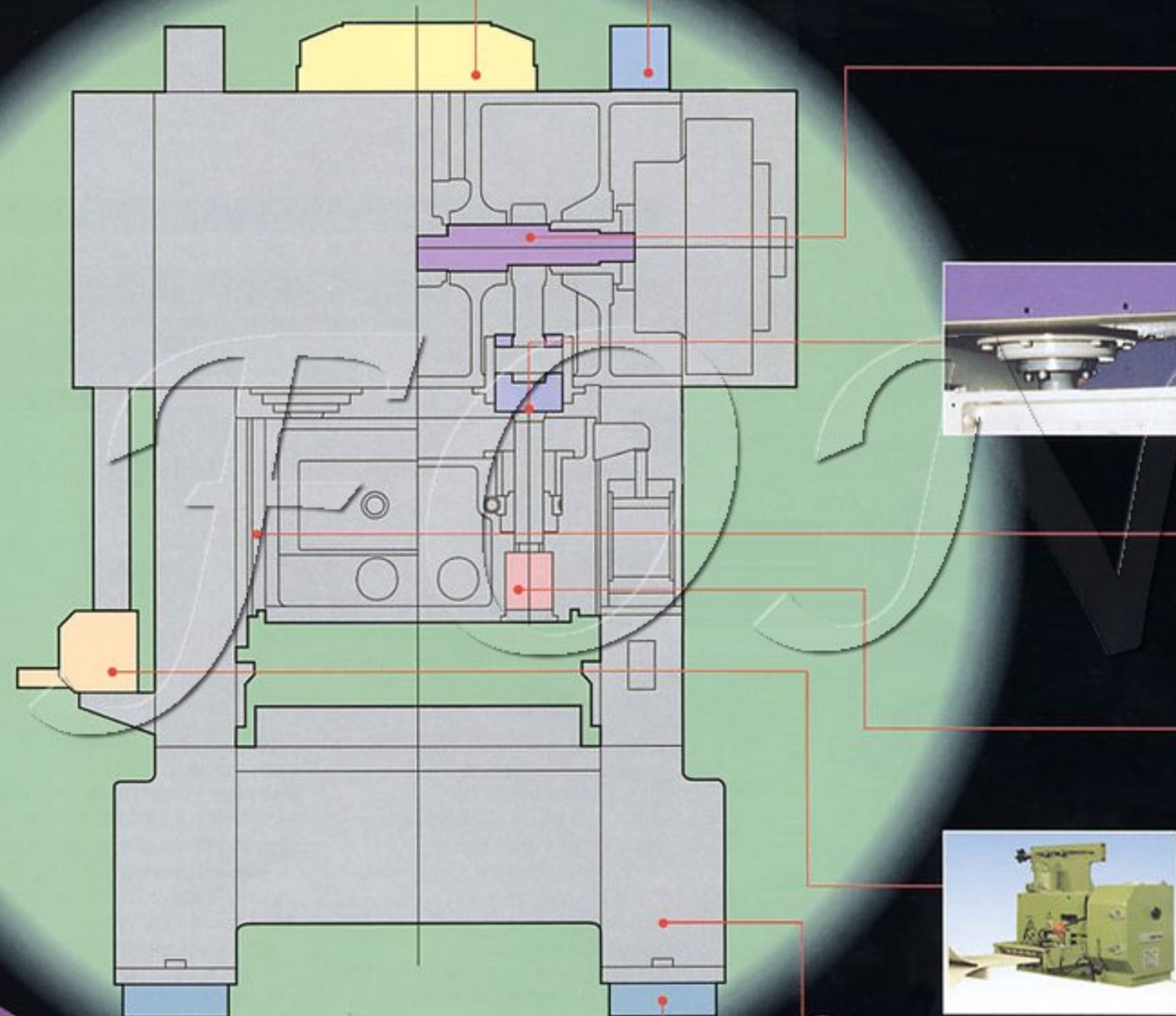


CHIN FONG



Series

Straight Side HIGH SPEED DOUBLE CRANK PRESSES



Features

- 為大幅降低沖床之振動，機身內完美動力平衡之機構，能確保長期使用下沖床及模具之壽命與精度。
- A standard feature of DYNAMIC BALANCING DEVICE is employed to counterbalance eccentric thrust generated from crankshaft rotation and slide movement. This may ensure better precision lamination and longer service life of high quality tools can therefore be secured because of substantial reduction of press frame vibration.

- 液壓式之卡模解脫裝置，於卡模時能迅速有效的排除，而提高沖床之稼動率。
- Hydraulic STICK RELEASE DEVICE is offered as standard system to solve the tool - jam (stick) problem within seconds.

- 精密合金鋼曲軸由四處銅襯支撐，連結兩組寬中心距連桿，極適宜大尺寸模具之沖壓，可承受較大之偏心負荷。
- A ground high quality alloy steel crankshaft has two wide con-rods closely supported by four main frame bronze bearings. The two con-rods allow the use of long tools with different operating stations and allow for off-center loading.

- 精心設計之導柱消除因頂座與滑塊不同熱變形所產生之導路間隙變化，並強化因曲軸旋轉產生之前後向負荷之抗力。
- The plunger guide design eliminates the change in guide clearances between the plunger and guide sleeve caused by the different expansion rates of the crown and slide in the horizontal plane. The proper connecting rod plunger clearance is maintained thus increasing resistance from front & to back loads created by the rotation of the eccentric shaft.

- 機身八面耐磨擦、高硬度之軸承鋼導板，配合滑塊導路位之滾筒軸承，能確保滑塊於高速上下往復運動之平穩、精確。
- High precision eight-way bearing guides, free from backlash with permanently incorporated roller circulating elements guide the slide accurately across the whole stroke.

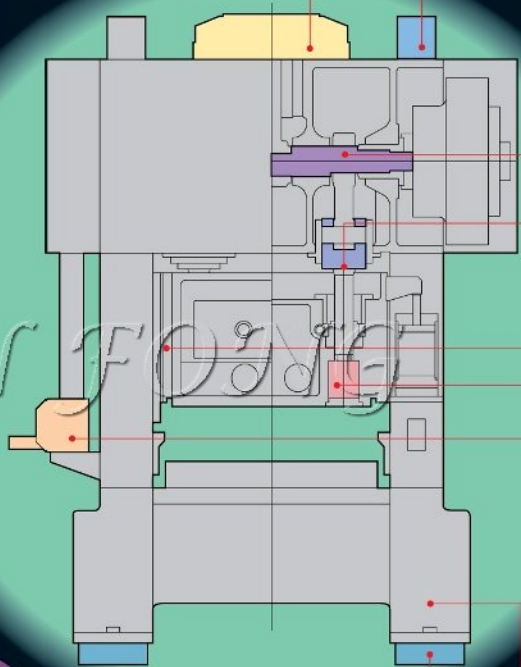
- 液壓式滑塊調整固鎖裝置，於高速沖壓作業時，能有高精度之下死點穩定性，使模具壽命與製品精度之訴求得以實現。
- Hydraulic SLIDE ADJUSTMENT LOCKING DEVICE is employed as standard to eliminate clearances inside the slide adjustment drive system on a regular basis to guarantee the consistency of slide bottom dead center.

- 高精度、高速交換齒輪式送料機可提供各種不同之送距組合。
- High speed, high precision, change gear type, cam indexing roller feed is provided for a wide ranges of feed pitch.

- 高剛性、高強度鑄造之機身並經完全之應力消除，適合長期、高速、重負荷之精密沖壓作業。
- Fully stress-relieved cast iron frame under hydraulically pre-stressed the rod construction ensures high speed laminating precision and rigidity.

- 以特殊設計之合成材料，提供防震效率及機器安定性之最佳組合，使用壽命週期長並具有優異之防油特性。（特殊附屬品）
- A neoprene resilient cushion designed to provide the best combination of isolation effectiveness and machine stability. The cushions are designed and compounded to have a long effective life and to be resistant to oils and lubricants.(optional accessory)

K PRESSES



CHIN FONG

Features

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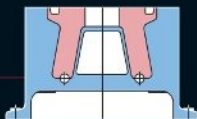
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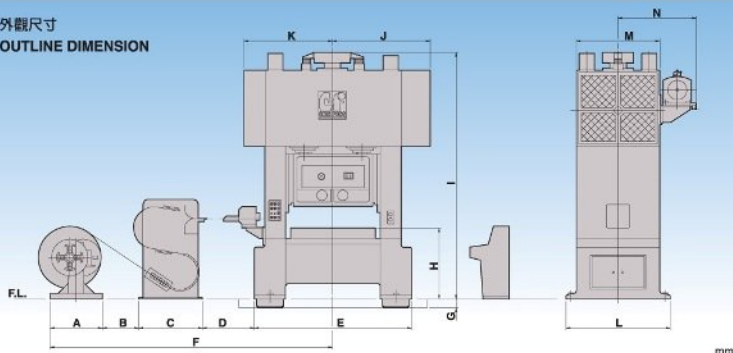
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規格 SPECIFICATIONS

規格內容 ITEM	型式 MODEL	HSD-60	HSD-80	HSD-125	HSD-200	HSD-300
能力 Capacity	ton	60	80	125	200	300
能力發主點 Rated Tonnage Point (Above B.D.C.)	mm	3.2	3.2	3.2	3.2	3.2
行程長 Stroke Length	mm	30	30	30	30	30
行程數 Strokes Per Minute	S.P.M.	200 550	200 550	200 500	150 350	100 300
最大模高 Die Height (S. D. A. U.)	mm	340	360	380	400	420
滑塊調整量 Slide Adjustment	mm	50	50	50	60	70
台盤面積 Bolster Area (LR X FB)	mm	850 X 600	1100 X 700	1300 X 800	1800 X 900	2000 X 1000
滑塊面積 Slide Area (LR X FB)	mm	790 X 450	1000 X 500	1200 X 600	1700 X 700	2000 X 900
台身開口 Bed Opening (LR X FB)	mm	700 X 200	900 X 200	1100 X 210	1535 X 350	1500 X 350
台身側面開口 Side Opening (LR X H)	mm	300 X 300	350 X 350	400 X 400	450 X 450	450 X 450
主電動機 Main Motor	HP	VS 20	VS 30	VS 40	VS 50	VS 60
供給氣壓 Air Pressure Required	kg/cm ²	5	5	5	5	5
交換齒輪送料機 CAM INDEX FEEDER (CHANGE GEAR TYPE)						
型 式 MODEL		RF-620G	RF-620GW	RF-660G	RF-660GW	
材料寬度 Width of Material	mm	130	220	300	400	
材料厚度 Thickness of Material	mm	2.3	2.3	3.2	3.2	
送料線高度 Feed Line Height	mm	140 ± 20	150 ± 20	165 ± 20	180 ± 20	
送料長度 Feed Length	mm	7.8 ~ 200	7.8 ~ 200	20 ~ 300	20 ~ 300	
主輪分割數 Cam Index Number		4	4	4	4	
S型雙頭料架附矯正機 S-LOOP UNCOILER/LEVELLER						
型 式 MODEL		DUS-20	DUS-30	DUS-40		
材料寬度 Width of Material	mm	200	300	400		
材料厚度 Thickness of Material	mm	0.1~1.2	0.3~1.2	0.3~1.2		
材料外徑 Outer Diameter of Coil	mm	1300	1300	1300		
材料內徑 Inner Diameter of Coil	mm	508 ± 20	508 ± 20	508 ± 20		
材料重量 Weight of Coil	kg	1500 X 2	2500 X 2	3000 X 2		
送料線速度 Feed Speed	m/min	15 ~ 60	15 ~ 60	15 ~ 60		
電 動 機 Main Motor	HP X P	2 X 4	5 X 4	5 X 4		
料卷擴張方式 Coil Expansion		油 壓 式 HYDRAULICALLY OPERATED				

標準附屬品： 1. 動力平衡裝置 2. 3位數電子式預調計數器 3. 6位數電子式累積計數器 4. 小時計數器 5. 電子式順序控制器 6. 材料潤滑裝置 7. 液壓式滑塊固定鎖裝置 8. 氣動式滑塊調整裝置 (附氣動扳手/300轉/分鐘電動) 9. 1/100mm刻度模高指示計 10. 主馬達正逆轉裝置 11. 誤送檢知插座 (二個) 12. 三相交流V.S.馬達附控制箱 13. 自動強制給油潤滑系統附動力幫浦 14. 冷卻油機 15. 空氣源接頭	STANDARD ACCESSORIES 1. Dynamic balancing device 2. 3 digits electronic type preset counter 3. 6 digits electronic type total counter 4. Hour counter 5. Electronic rotary sequencer 6. Material lubrication device 7. Hydraulic slide adjustment locking device 8. Air-driven slide adjustment device with air wrench / HSD-300 by electric motor 9. 1/100 mm die height indicator 10. Main motor reversing device 11. Misfeed detector receptacle 12. 3-phase AC VS motor with speed controller 13. Automatically forced recirculating lubrication system with power unit. 14. Oil Cooler 15. Air source receptacle
特殊附屬品： 1. 防震裝置 2. 舉模器 3. 夾模器 4. 移模臂 5. 飛輪制車裝置 6. 直流變速馬達及控制箱 7. 隔音罩 8. 雙頭料架 (附油壓式料卷擴張裝置) 9. 矯正機附S-loop 10. 交換齒輪式凸輪分割型送料機 (附交換齒輪四個) 11. 噴風裝置	OPTIONAL ACCESSORIES 1. Anti-vibration device 2. Die lifter 3. Die clasper 4. Die arm 5. Flywheel brake 6. DC motor with speed controller 7. Sound-proof room 8. Double head uncoiler with hydraulic expansion device 9. Straightener with S-loop 10. Change-gear type, cam index roll feed 11. Air ejector

外觀尺寸
OUTLINE DIMENSION



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
HSD-60	1000	700	1220	1000	1830	4830	95	900	2995	1165	995	1250	1000	1265
HSD-80	1000	700	1220	1000	2140	4990	140	950	3284	1360	1150	1350	1100	1265
HSD-125	1000	700	1220	1000	2390	5120	140	1012	3742	1505	1245	1500	1200	1325
HSD-200	1000	700	1220	1000	3190	5415	165	1370	4470	1855	1695	2000	1600	1500
HSD-300	1000	700	1220	1000	3250	5545	165	1550	5700	2075	1975	2500	2000	1620



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0608_CED8_1500 AC Design / 94-27071159



DLS iLS1

Intelligent Link Drive
Single Point Servo Press



i Servo Press m o t i o n

Precision

Increase forming precision by applying servo control system.

Forming Quality

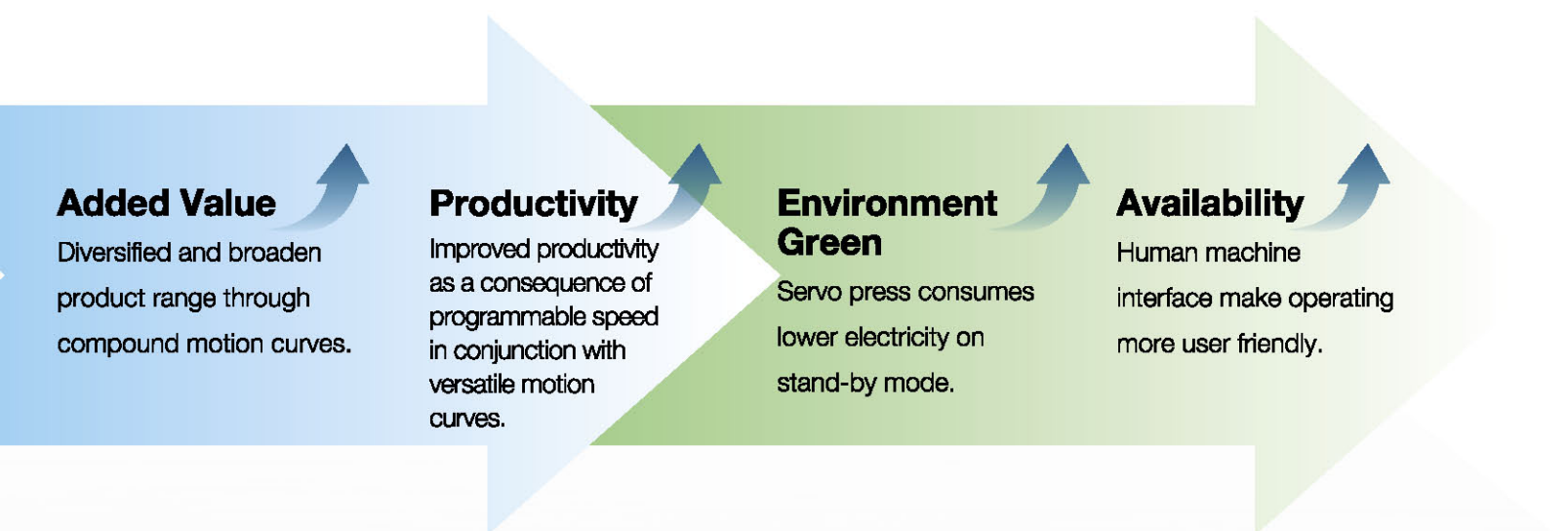
Servo electronic system upgrades press capacity, increasing forming quality.



Intelligence

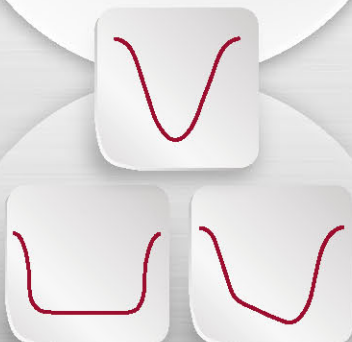
Servo control system and real-time monitoring intelligent program create high-precision stamping technology.





Diversification

Free slide motion.
Well-suited for diverse working stations.



Green Design

Reduce electricity consumption and noise at idle running, prolonging die life.

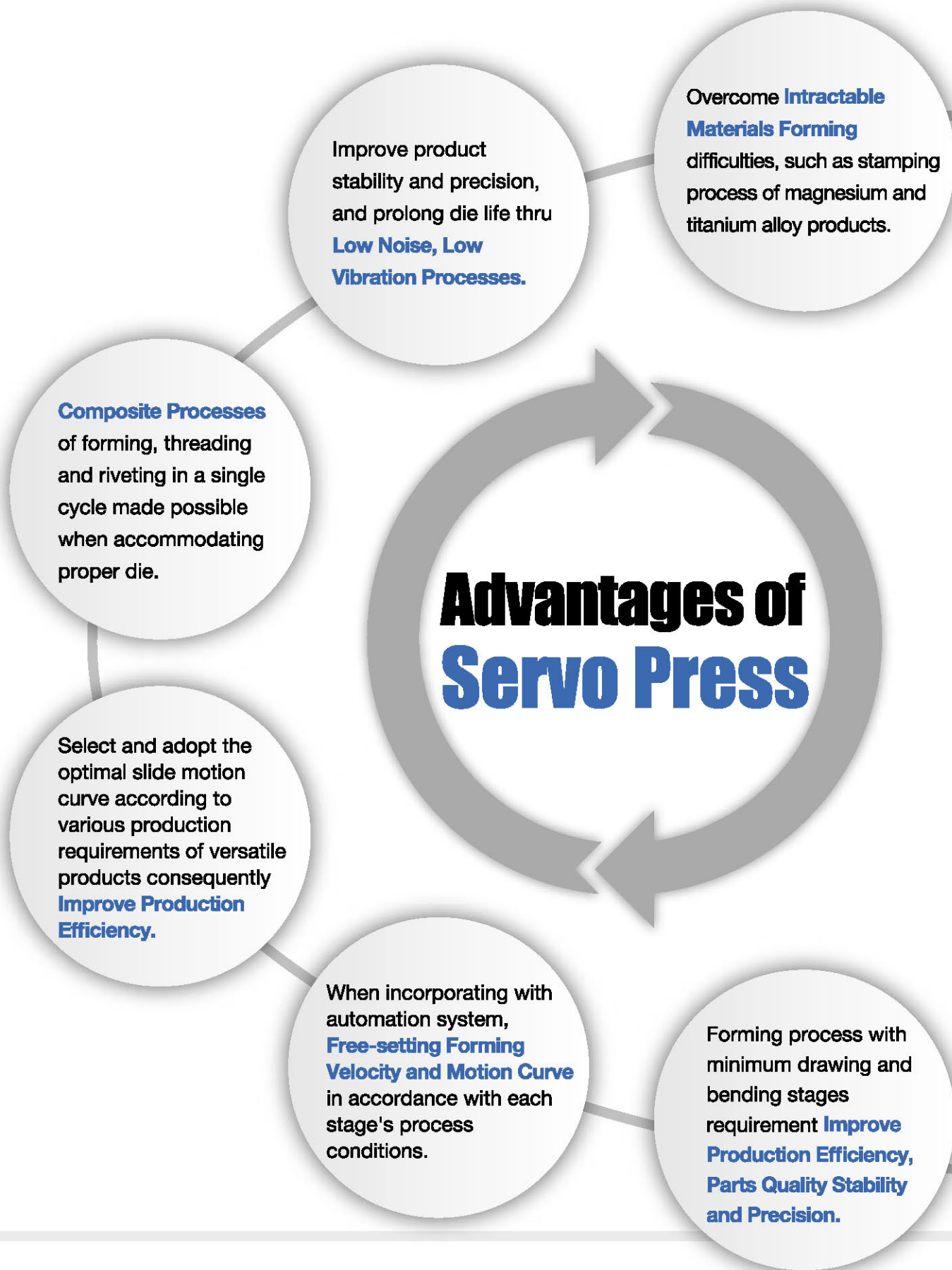


Breakthrough the Bottleneck of Conventional Press Forming Processes

- **Increase Drawing Ratio**
Simplified multi-stage drawing processes.
Significantly enlarge the parts drawing ratio in one-time operation.
- **Upgraded Precision for Bending Process**
Reduce springback effectively by using retention B.D.C. function.
- **Fine blanking**
Set specific motion curve with appropriate die for fine blanking.

Synergized Output by Servo Press Forming Technology

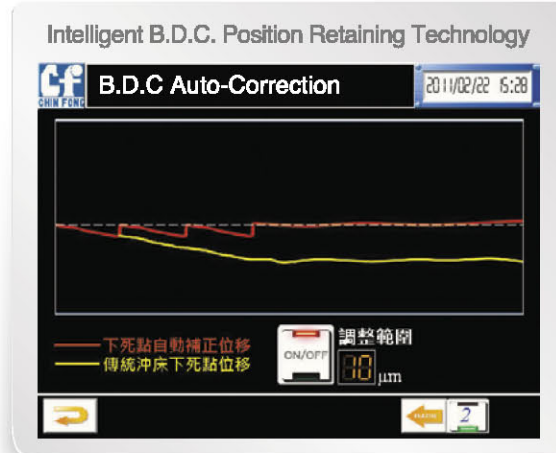
- **Improved Forming Capability for Press Forging**
Freely setting forming speed for optimized press forging process of all kinds of material.
- **Fit Right In for Print Circuit Board (PCB) Perforation Process.**
- **In-die Compound machining**
- **Transform cutting station for specific need.**



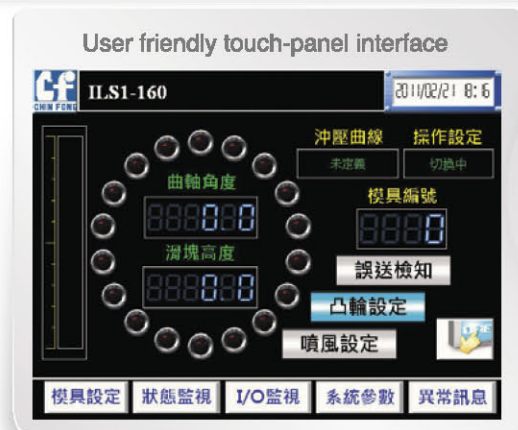
Slide B.D.C. Repeatability Auto-Correction

Optional

Side stroke Bottom Dead Center (B.D.C.) position can be affected by temperature. Utilizing absolute signal feedback features of high-end optical linear scale, Chin Fong Servo Presses are capable of **auto-correcting** B.D.C. position, retaining B.D.C. repeatability within **$\pm 0.01\text{mm}$** accuracy.



Human Machine Interface – Intelligent Curve

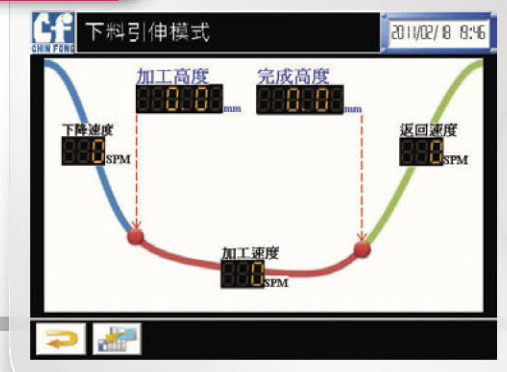
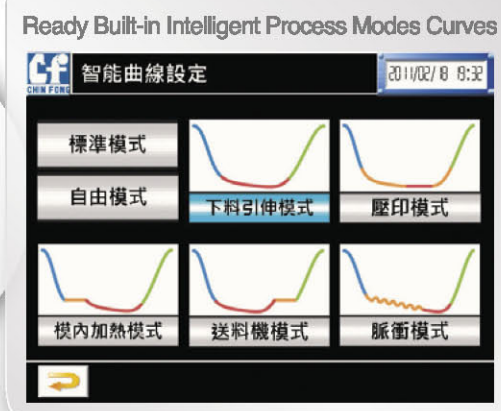


Home screen features crank angle display, slide position monitoring, tooling library, I/O monitoring, system parameter and error message... etc.

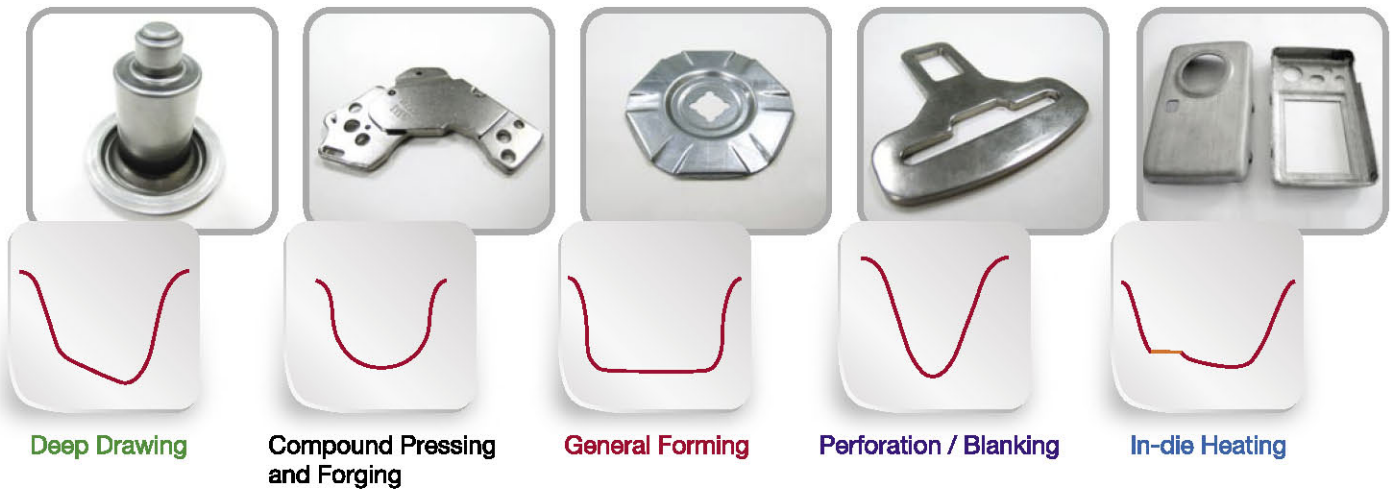
A variety of Built-in mode curves quick selection avoids detail and miscellaneous settings at start-up.

Industry-leading, Motion Curve Parameter Input Method benefits users with faster and convenient operations.

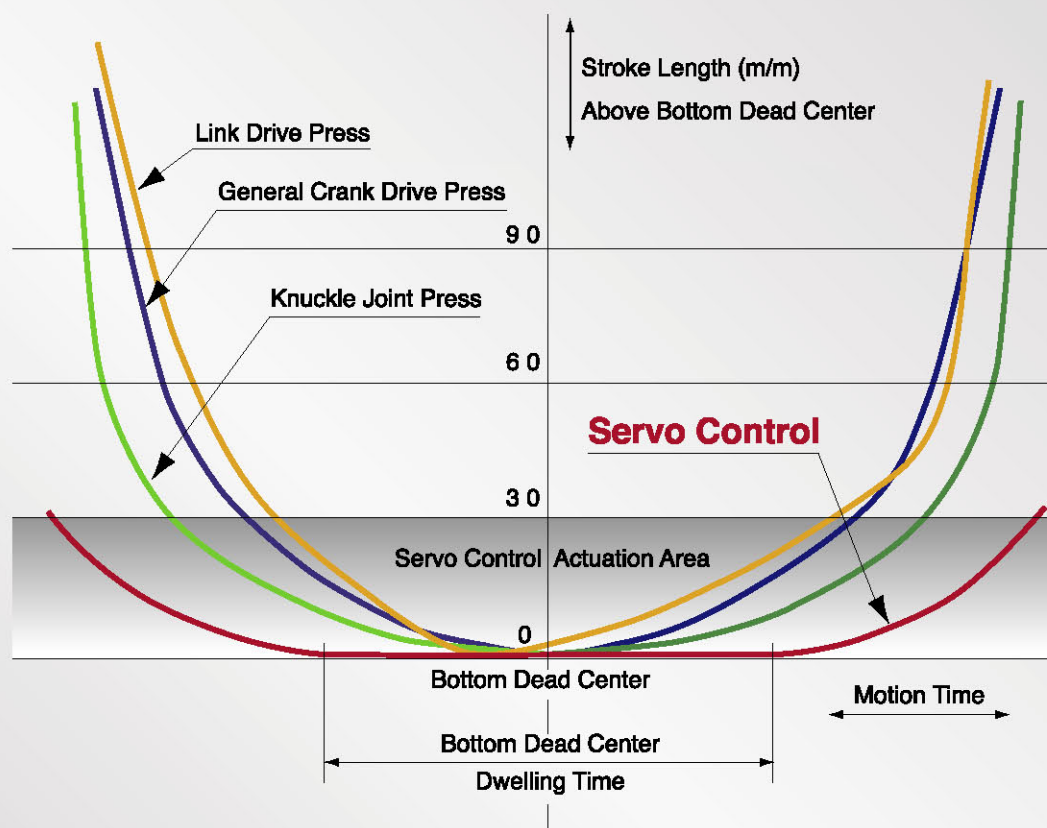
Leading!



Diversified Intelligent Forming



Motion Diagram of Servo Drive Press



- Free setting for slide motion speed satisfies versatile forming conditions and requirements
- Flexibility of forming motion diagram setting and optimization to overcome forming process difficulties of intractable shapes and materials.
- Flexible B.D.C. dwelling time setting reduces spring-back in extrusion, bending and compound process forming applications.

One Machine, Multiple purpose



Effortlessly achieve multi-stage forming process requirement by utilizing servo control system while saving significant production equipment investment.

Environment Green

Decelerated motion speed while upper die is reaching parts **Avoid Noise and Vibration** even in heavy thickness material perforating applications.

Significantly **Increase Material Utilization Ratio** by setting and controlling motion curves.

Only 1 % of electricity consumption on stand-by mode compared with forming, **working energy is even capable at low speed.**

Achieve Energy-Saving at intermittent mode while incorporating transfer robots by decelerated motion instead of completely T.D.C stop

Auto control system effectively increases production and **lower demand for labor.**

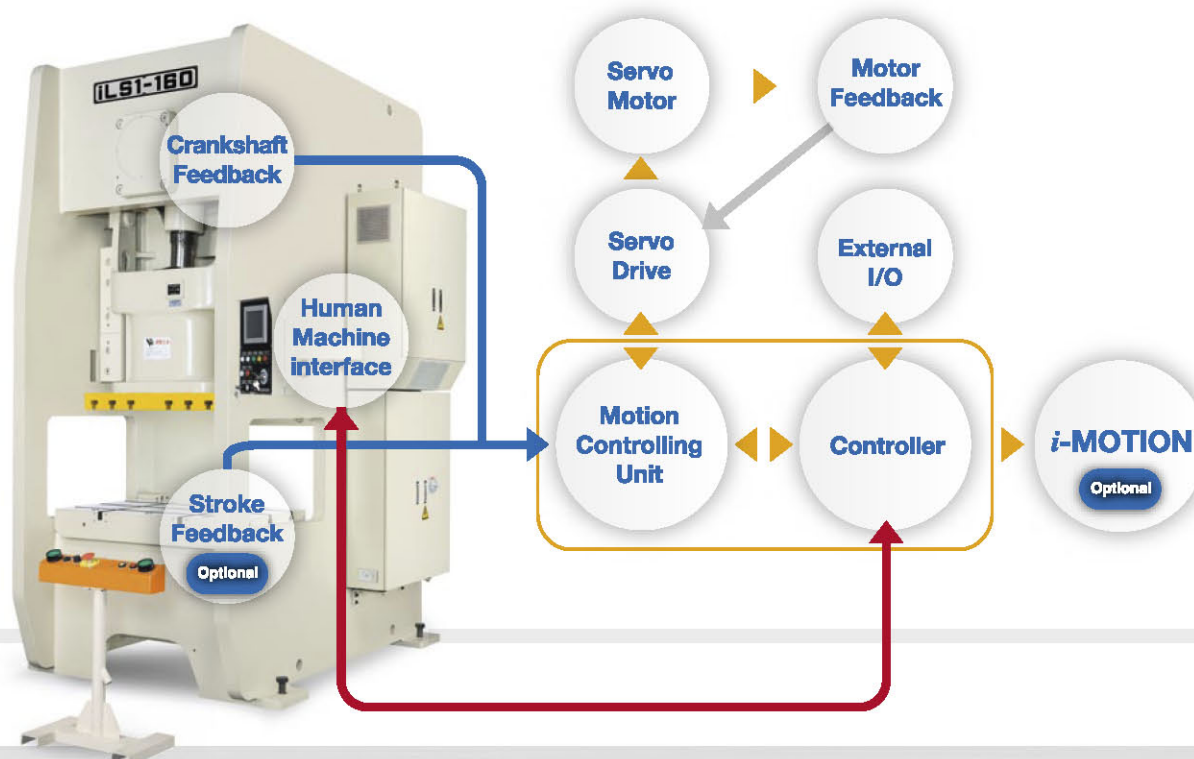


Electronic Mechanism of Servo Driven Presses



Control System

Powerful servo electronic system serves as foundation of achieving high precision, high stability and multi-segment curve setting.

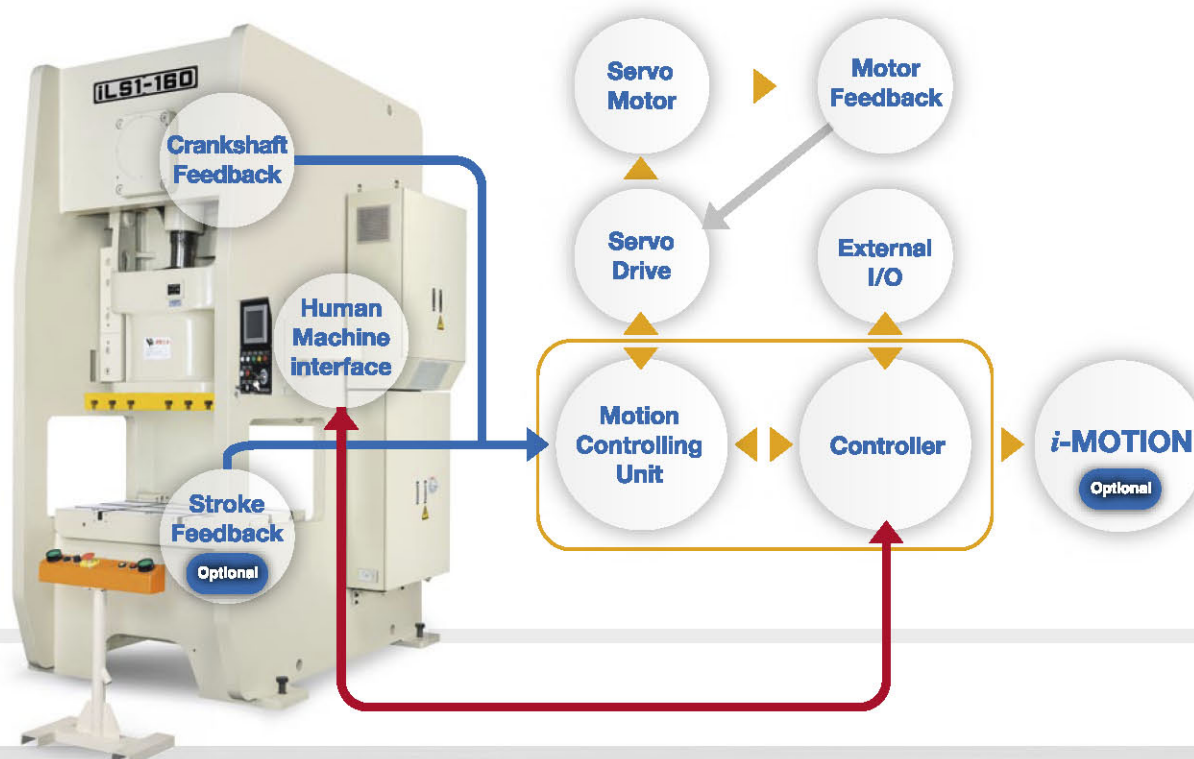


Electronic Mechanism of Servo Driven Presses

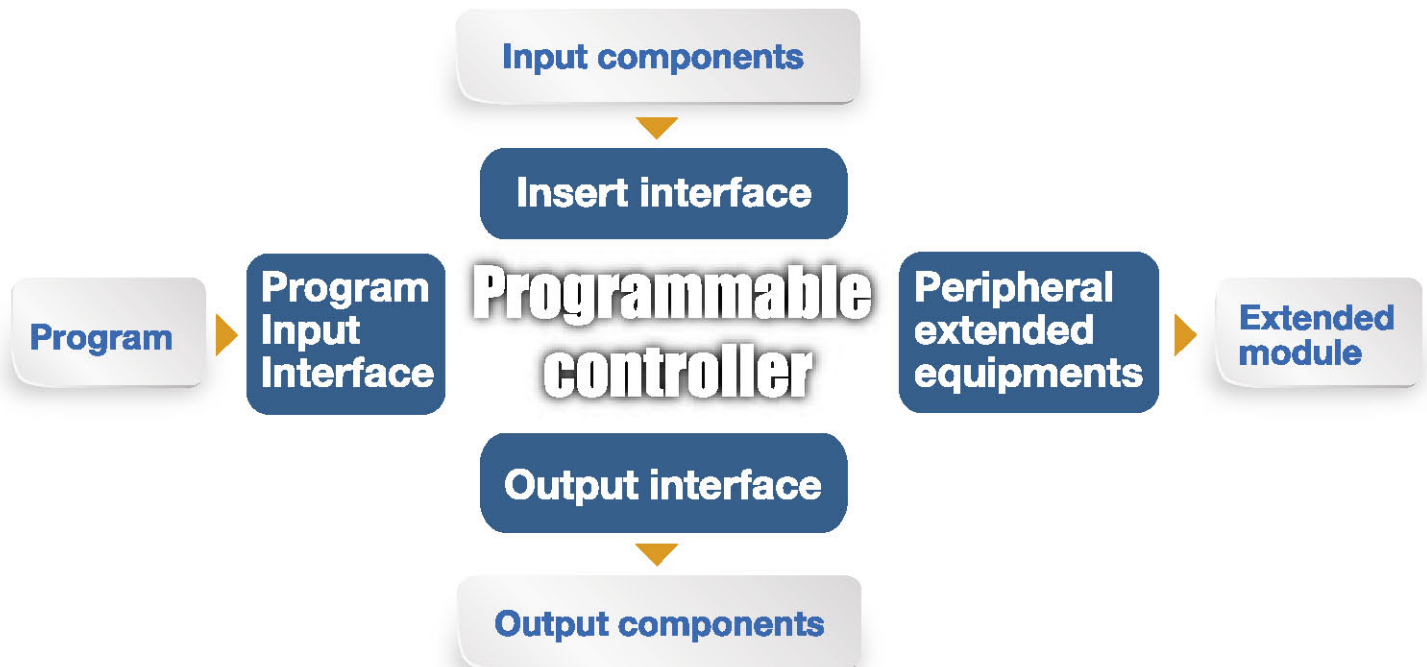


Control System

Powerful servo electronic system serves as foundation of achieving high precision, high stability and multi-segment curve setting.



PLC Programmable controlling System



❁ Employ Monitor System In PC Or Human Machine Interface :

Data can be displayed and operated on PC or human machine interface(HMI) where data is inputted via port of PLC server.

❁ Operating Reliability :

Microprocessor and optical coupler are applied to core component and signal processing respectively, leading to noise reduction and improving the reliability.

❁ Convenient Maintenance and Installation :

Hosting control panel can display various status of On/off setting connected to devices, such as solenoid switches and push-buttons, switches and indicator and so forth, through I/O LED, being able to facilitate fault detection and troubleshooting.

❁ Expansion Capabilities :

Enable flexible I/O module expansion and extension RAM capacity in terms of actual requirement.

To Meet Demand Of Servo Driven Presses, We Accommodate
***i*-MOTION Controlling System**
To Perform And Control Any Specific Motion Demand.

Intelligent Controlling System, *i*-MOTION

Optional

Automation Platform Realization

Via Ethernet connection, *i*-MOTION makes plant management available to either operate peripheral equipment or monitor production lines.

High Efficiency and High Precision

i-MOTION platforms carries high speed CPU that enables faster data processing system capability and excellent response performance. Plus functional motion curve setting and control features facilitates better operations capability in accurate, efficient and stable way.

Operation Monitoring System

Real-time monitoring system is used to monitor main motor and I/O status. HMI displays alarm signal, with historical database inquiry and troubleshooting references.

Stamping Database Building and Management

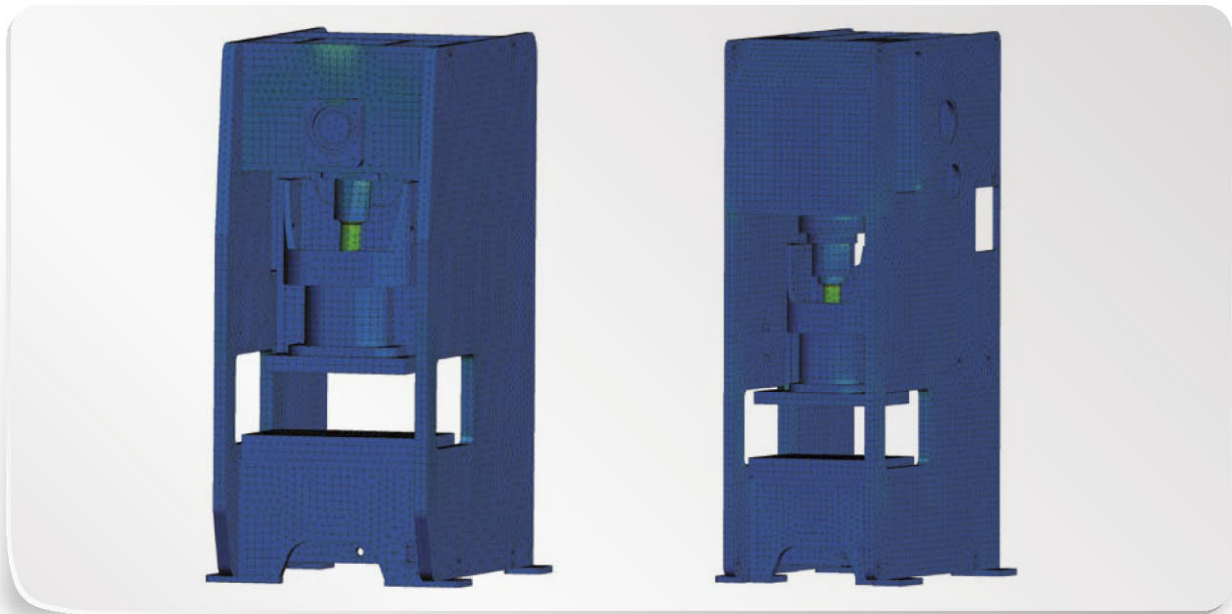
Memorize it in real-time, retrieve it at any time - create and manage stamping operation database easily by inputting critical operation and process parameters, such as slide motion speed, stroke length and material for different dies, into system built-in database, providing handy aids to plant management and result in significant production efficiency improvement.

All-in-One Integration

i-MOTION integrates functions of press motion control technology, PLC and closed-loop drive control, into single, all-in-one control module that truly integrate all equipment into one machine.

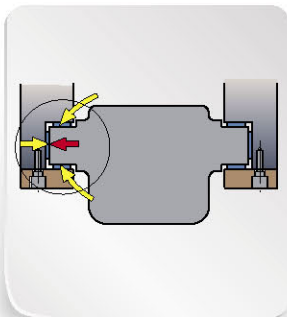
Realize Rationalization and Optimism

CAE structural analysis by using FEA software enables to calculate force and deflection of key components, realizing rationalization and optimism in the end.

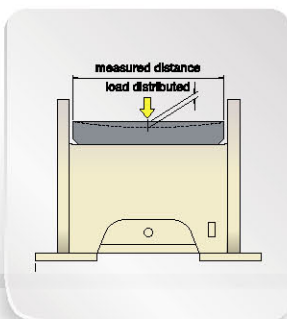


Box Type 6-point Gib

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

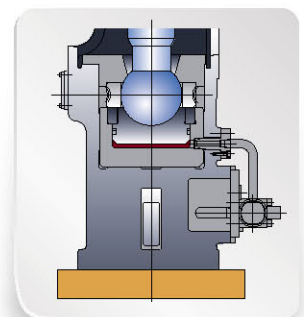


Minimum Frame Deflection

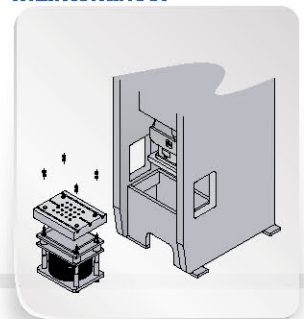


Highly Responsive

Hydraulic Overload Protector (H.O.L.P.)



Top-in inserted die cushion prevent foundation construction, making it convenient for maintenance.



DLS

Multi-Purpose Link Drive
Servo Motion Presses



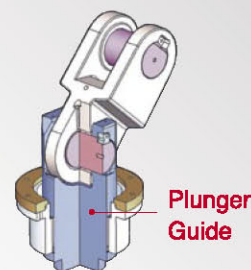
Free Preset

Motion Speed
Retention Time
Operating Start Angle
Forming Start Angle

Driven by press-designated high efficient servo drive, able to stabilize slide motion and press capacity.

Free-setting of motion curve is available for fine blanking, including blanking, bending, drawing, compressing and etc., improving production efficiency.

Plunger Guided



- Lateral force occurred during press operation will be absorbed by PLUNGER GUIDE.
- Close structure in crown by using plunger guide not only provide perfect structure strength, reduce gear noise but also avoid intrusion of unexpected parts.

Realizing-

One machine with multiple purposes
Improved precision of stamping product
Prolonged die life
User-friendly operation panel

Adopting-

High rigid frame
High rigid 6-link mechanism
Design of Boxed type six-point gib and transmission rod
Mini touching human machine interface
High precision servo system interface
High precision servo system

SPECIFICATIONS

MODEL		DLS-110		DLS-160		DLS-200	
TYPE		S	H	S	H	S	H
Capacity	Tons	110		160		200	
Rated Tonnage Point	mm	5	5	6	6	6	6
Stroke Length	mm	150	110	200	130	200	150
Strokes Per Minute	SPM	~65	~100	~50	~85	~45	~70
Die Height	mm	350	320	400	350	450	410
Slide Area	mm	650 x 520		700 x 580		850 x 650	
Bolster Area	mm	900 x 700		1000 x 750		1150 x 850	
Bolster Thickness	mm	120		150		160	
Side Opening	mm	750 x 500		800 x 560		900 x 610	
Slide Adjustment	mm	90		100		110	
Slide Adjusting Motor	HPx P	0.5(0.4Kw) x 4		1(0.75Kw) x 4		1(0.75Kw) x 4	
Die Cushion							
Capacity	Tons	8		10		14	
Pad Area	mm	500 x 300		540 x 350		640 x 470	
Stroke Length	mm	80		80		100	

iLS1-C

Intelligent Link Drive
Single Point Servo Press

Realizing-

Intelligent motion curve
Improved stability of stamping product
Improved component drawing
Prolonged life of transmission mechanism
Demand of large-size LED in panel industry
User-friendly operation panel

Adopting-

High precision servo system
Wide slide design
Intelligent pulse mode
High precision gear transmission mechanism
Widen bed
Mini touching human machine interface

Bottom Dead Center Accuracy Detector

Optical sensor measures and revise B.D.C. height.

Safety Light Curtain

Optical sensor allow emergency stop for safety reason.

Motorized Grease Pump

Regularly lubricate pumps and fault detector to maintain operation smoothly.

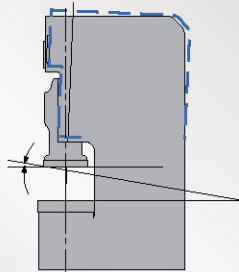
Human Machine Interface

Human-centered design and user-friendly operation

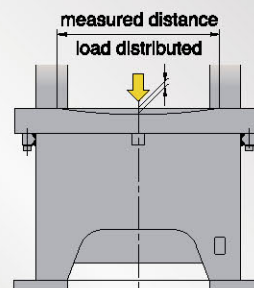
Safety Brake Device

Super Rigid Steel Frame

Optimal rigid frame
Increase product precision
Prolong sharply die life



Minimum Frame Deflection



High rigidity and low deflection can reduce frame deflection resulted from stamping.
Finite element analysis (FEA) of main components, such as frame, crankshaft, link, slide and etc., carries out optimal design by collecting data of force and deflection for every component.

SPECIFICATIONS

MODEL		TYPE	iLS1-110		iLS1-160		iLS1-200		iLS1-260	
			C		C		C		C	
			S	H	S	H	S	H	S	H
Capacity	Tons	110		160		200		260		
Rated Tonnage Point	mm	5	5	6	6	6	6	6	6	
Stroke Length	mm	180	110	200	130	200	150	250	180	
Strokes Per Minute	SPM	~65	~100	~50	~85	~45	~70	~40	~60	
Die Height	mm	350	385	400	435	450	475	450	485	
Slide Area	mm	800x520		900x580		1000x650		1100x700		
Bolster Area	mm	1250x700		1400x760		1500x850		1550x900		
Bolster Thickness	mm	120		150		160		180		
Side Opening	mm	750x500		800x560		900x610		950x660		
Slide Adjustment	mm	90		100		110		120		
Slide Adjusting Motor	HPxP	0.5(0.4Kw)x4		1(0.75Kw)x4		1(0.75Kw)x4		2(1.5Kw)x4		
Die Cushion										
Capacity	Tons	8		10		14		14		
Pad Area	mm	500x300		540x350		640x470		700x470		
Stroke Length	mm	80		80		100		100		

iLS1-D

Intelligent Link Drive
Single Point Servo Press

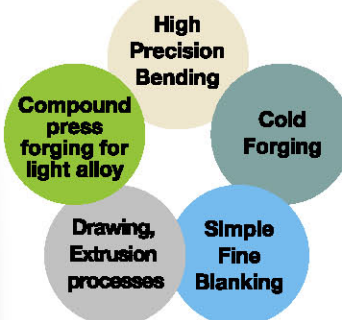
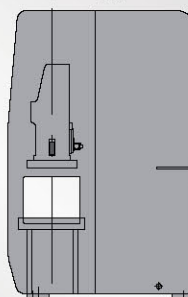


Transmission Component Machining

All major friction components such as crankshaft, transmission shaft, gear are heat-treated and grinded, delivering high wear resistance and stability for heavy load and long time operation.

Super Rigid, Reinforced Straight-Sided Frame

Optimal rigid frame
Increase product precision
Prolong sharply die life



SPECIFICATIONS

MODEL		TYPE	iLS1-110		iLS1-160		iLS1-200		iLS1-260	
			D		D		D		D	
			S	H	S	H	S	H	S	H
Capacity	Tons	110		160		200		260		
Rated Tonnage Point	mm	5	5	6	6	6	6	6	6	
Stroke Length	mm	180	110	200	130	200	150	250	180	
Strokes Per Minute	SPM	~65	~100	~50	~85	~45	~70	~40	~60	
Die Height	mm	350	385	400	435	450	475	450	485	
Slide Area	mm	800x520		900x580		1000x650		1100x700		
Bolster Area	mm	1000x700		1150x760		1250x850		1350x900		
Bolster Thickness	mm	120		150		160		180		
Side Opening	mm	750x500		800x560		900x610		950x660		
Slide Adjustment	mm	90		100		110		120		
Slide Adjusting Motor	HPxP	0.5(0.4Kw)x4		1(0.75Kw)x4		1(0.75Kw)x4		2(1.5Kw)x4		
Die Cushion										
Capacity	Tons	8		10		14		14		
Pad Area	mm	500x300		540x350		640x470		700x470		
Stroke Length	mm	80		80		100		100		