



# DLS / iLS1

**Intelligent Link Drive**  
Single Point Servo Press



Deep Drawing



Compound Pressing  
and Forging



General Forming



Perforation / Blanking



Warm Forming

# *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.



## Added Value

Diversified and broaden product range through compound motion curves.

## Productivity

Improved productivity as a consequence of programmable speed in conjunction with versatile motion curves.

## Environment Green

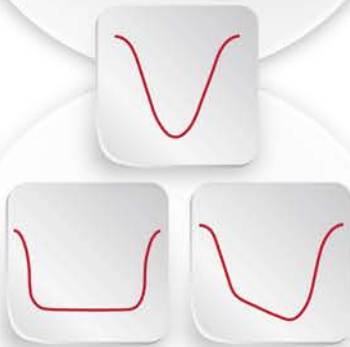
Servo press consumes lower electricity on stand-by mode.

## Availability

Human machine interface make operating more user friendly.

## Diversification

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



## Green Design

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



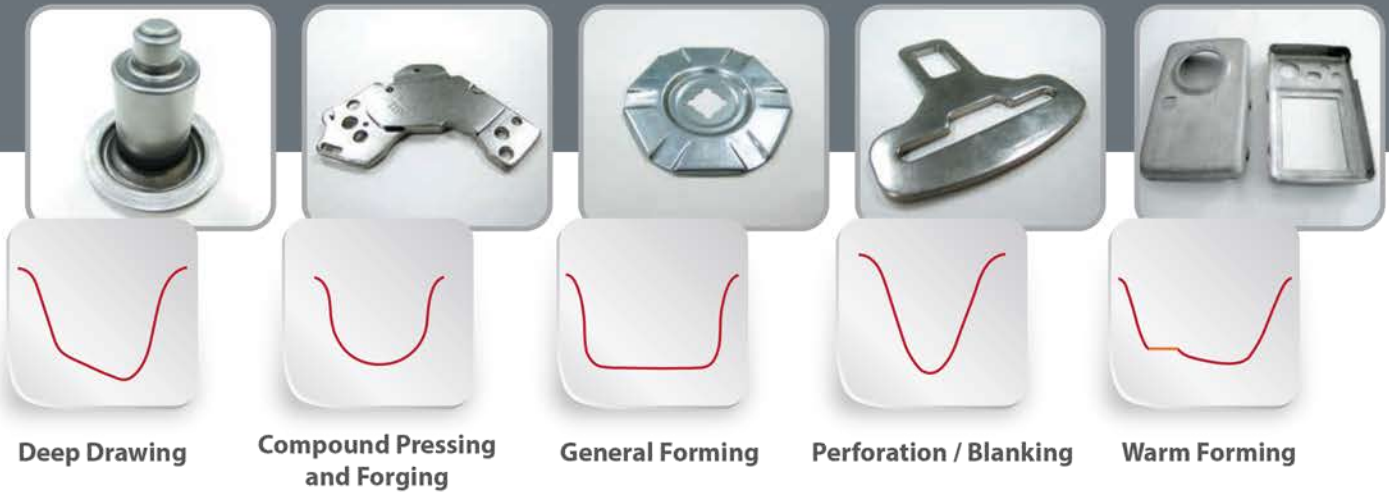
### Breakthrough the Bottleneck of Conventional Press Forming Processes

- 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.

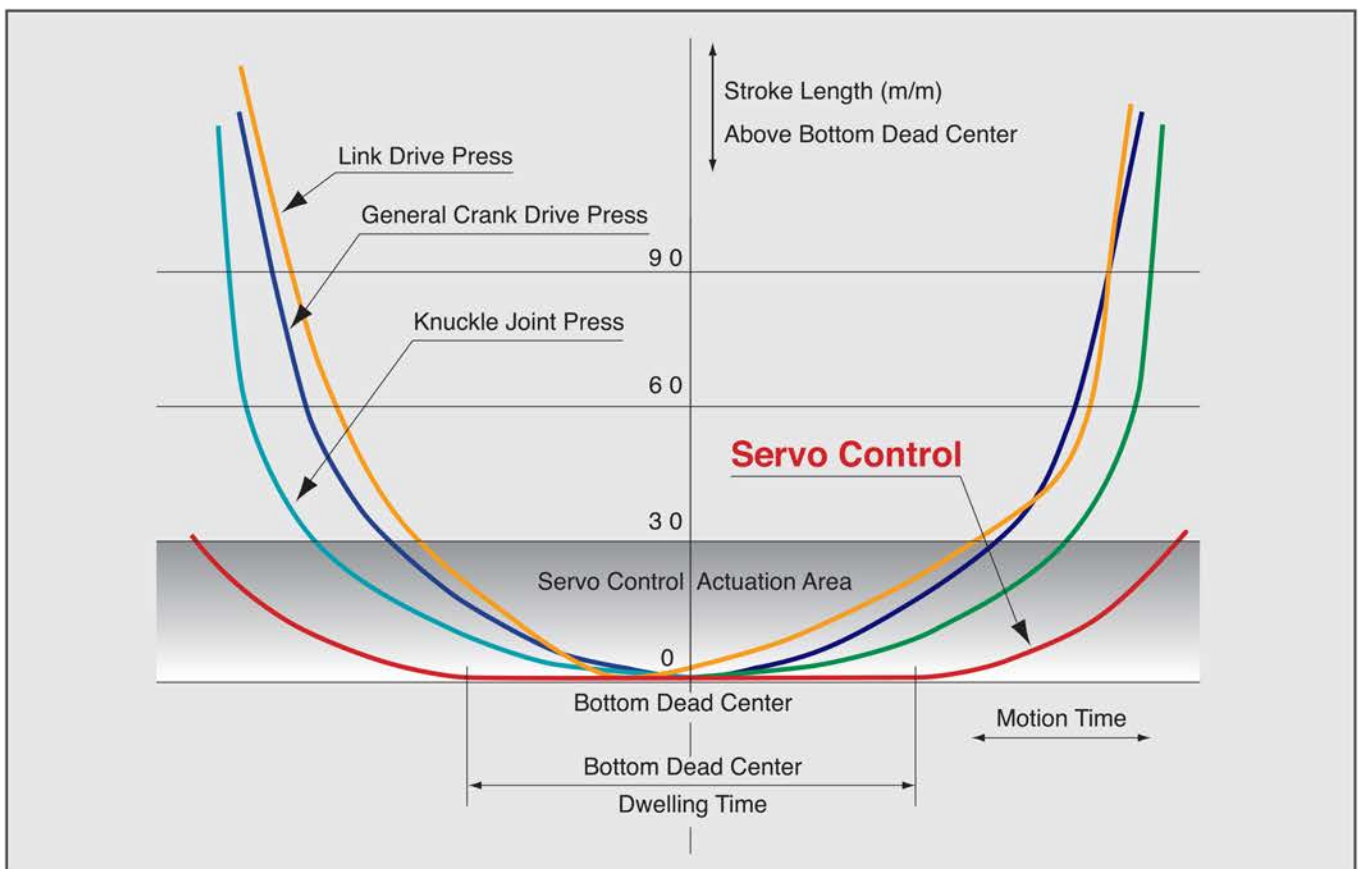
### Synergized Output by Servo Press Forming Technology

- 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.

## Diversified Intelligent Forming



## Motion Diagram of Servo Drive Press

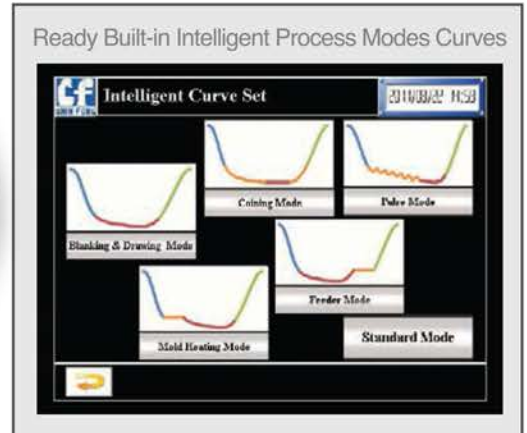


- Free setting for slide motion speed satisfies versatile forming conditions and requirements
- Flexibility of forming motion diagram setting and optimization to overcome forming process difficulties of intractable shapes and materials.
- Flexible B.D.C. dwelling time setting reduces spring-back in extrusion,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

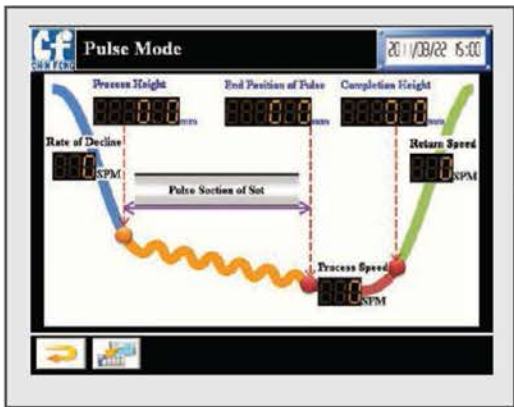
# Human Machine Interface - Intelligent Curve



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

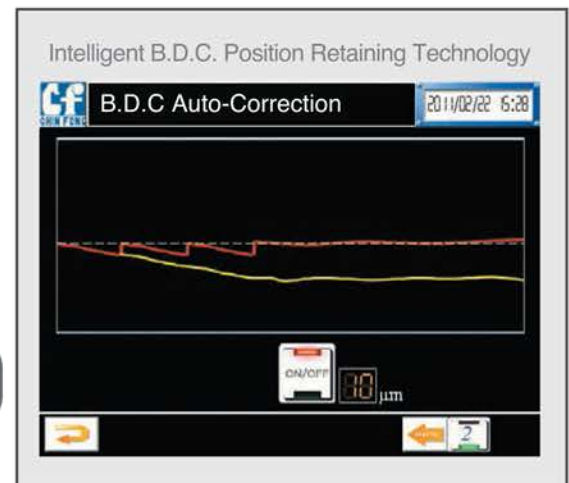


A variety of Built-in mode curves quick selection avoids detail and miscellaneous settings at start-up.



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

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 **±0.01mm** accuracy.

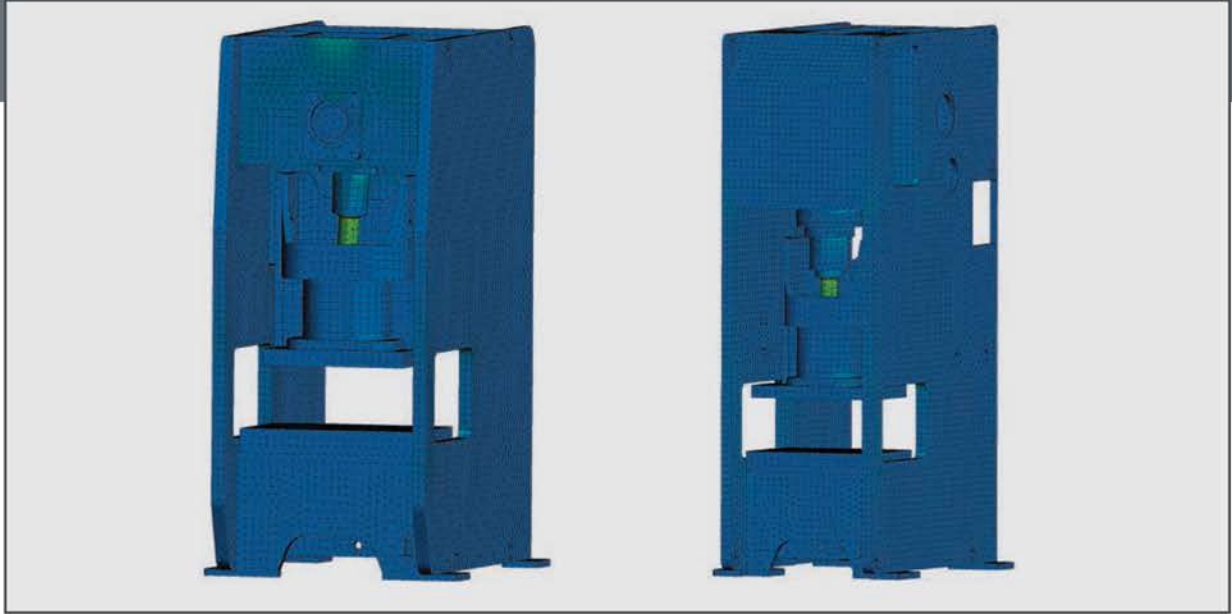


## Slide B.D.C. Repeatability Auto-Correction

Optional

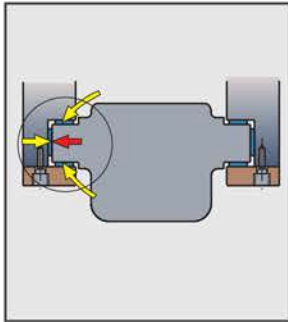
# FEA - Optimized

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

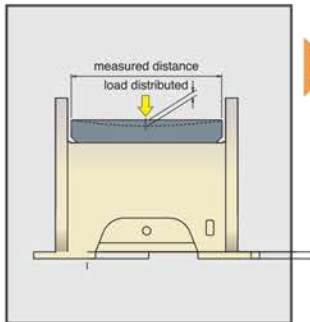


## Box Type 6-point Gib

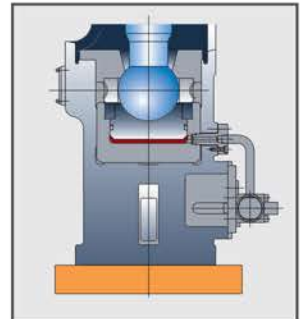
- One piece, full-length, box type gibs assure actuated slide guiding.
- Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.



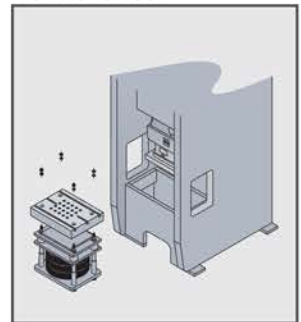
## Minimum Frame Deflection



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



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



# DLS

## Intelligent Link Drive

### Single Point Servo Press

**STAMTEC**  
SERVO PRESSES



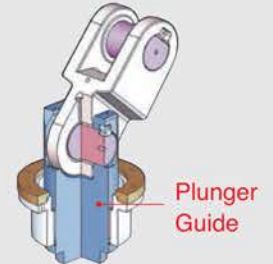
#### Free Preset

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

Model		DLS-110		DLS-160		DLS-160		DLS-260	
Type		S	H	S	H	S	H	S	H
Capacity	Tons	121		176		220		286	
	Metric Tons	110		160		200		260	
Rated Tonnage Point	inch	0.20	0.20	0.24	0.24	0.24	0.24	0.26	0.26
	mm	5	5	6	6	6	6	6.5	6.5
Stroke Length	Inch	5.90	4.33	7.87	5.12	7.87	5.90	9.84	7.08
	mm	150	110	200	130	200	150	250	180
Strokes Per Minute	SPM	~65	~100	~50	~85	~50	~85	~40	~60
Die Height	inch	13.78	12.60	15.75	13.78	17.72	16.14	19.68	18.11
	mm	350	320	400	350	450	410	500	460
Slide Area	inch	52.59 x 20.47		27.56 x 22.83		33.46 x 52.59		36.22 x 27.56	
	mm	650 x 520		700 x 580		850 x 650		920 x 700	
Bolster Area	inch	35.43 x 27.56		39.37 x 29.53		45.28 x 33.46		51.18 x 35.43	
	mm	900 x 700		1,000 x 750		1,150 x 850		1,300 x 900	
Bolster Thickness	inch	4.72		5.91		6.3		7.09	
	mm	120		150		160		180	
Side Opening	inch	29.53 x 19.68		31.50 x 22.83		35.43 x 24.02		37.40 x 25.98	
	mm	750 x 500		800 x 580		900 x 610		950 x 660	
Slide Adjustment	inch	3.54		3.94		4.33		4.72	
	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	8.8		11		15.43		15.43	
	Metric Tons	8		10		14		14	
Pad Area	inch	19.68 x 11.81		21.26 x 13.78		25.20 x 18.50		29.13 x 18.50	
	mm	500 x 300		540 x 350		640 x 470		740 x 470	
Stroke length	inch	3.15		3.15		3.93		3.93	
	mm	80		80		100		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

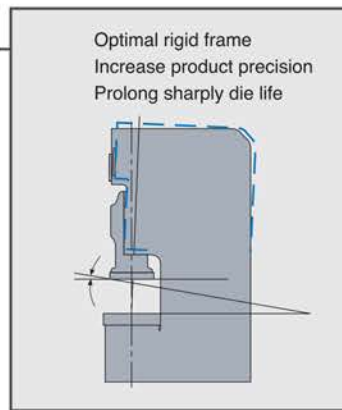
Regularly lubricate pumps and fault detector to maintain operation smoothly.

### Human Machine Interface

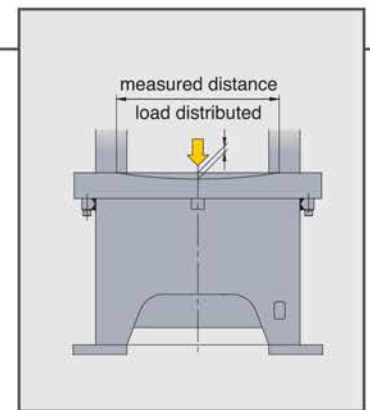
Human-centered design and user-friendly operation

### Safety Brake Device

### Super Rigid Steel Frame



### 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.

Model		iLS1-110		iLS1-160		iLS1-200		iLS1-260	
Type		C		C		C		C	
		S	H	S	H	S	H	S	H
Capacity	US Tons	121	121	176	176	220	220	286	286
	Metric ton	110	110	160	160	200	200	260	260
Tonnage Rating Point	Inch	0.2	0.2	0.24	0.24	0.24	0.24	0.24	0.24
	mm	5	5	6	6	6	6	6	6
Stroke Length	Inch	7.09	7.09	7.87	5.12	7.87	5.91	9.84	7.09
	mm	180	180	200	130	200	150	250	180
Speed	SPM	~65	~100	~50	~85	~45	~70	~40	~60
Die Height	Inch	13.78	15.16	15.74	17.13	17.71	18.7	17.71	8.2719 in
	mm	350	385	400	435	450	475	450	485
Slide Area (L-R X F-B)	Inch	31.50 x 20.47	31.50 x 20.47	35.43 x 22.83	35.43 x 22.83	39.37 x 25.59	39.37 x 25.59	43.31 x 27.56	43.31 x 27.56
	mm	800 x 520	800 x 520	900 x 580	900 x 580	1,000 X 650	1,000 X 650	1,100 x 700	1,100 x 700
Bolster Area (L-R X F-B)	Inch	39.37 x 27.56	39.37 x 27.56	45.28 x 29.92	45.28 x 29.92	49.21 x 33.46	49.21 x 33.46	53.15 x 35.43	53.15 x 35.43
	mm	1,000 x 700	1,000 x 700	1,150 x 760	1,150 x 760	1,250 X 850	1,250 X 850	1,350 x 900	1,350 x 900
Bolster Thickness	Inch	4.72	4.72	5.9	5.9	6.3	6.3	7.09	7.09
	mm	120	120	150	150	160	160	180	180
Side Opening	Inch	29.53 x 19.68	29.53 x 19.68	31.49 x 22.04	31.49 x 22.04	35.43 x 24.02	35.43 x 24.02	37.40 x 25.98	37.40 x 25.98
	mm	750 x 500	750 x 500	800 x 560	800 x 560	900 x 610	900 x 610	950 x 660	950 x 660
Slide Adjustment - Powered	Inch	3.54	3.54	3.94	3.94	4.33	4.33	4.72	4.72
	mm	90	90	100	100	110	110	120	120
Slide Adjusting Motor	HP x P	0.5 (0.4Kw)x4	0.5 (0.4Kw)x4	1(0.75Kw)x4	1(0.75Kw)x4	1(0.75Kw)x4	1(0.75Kw)x4	2(1.5Kw)x4	1(1.5Kw)x4



# iLS1-D

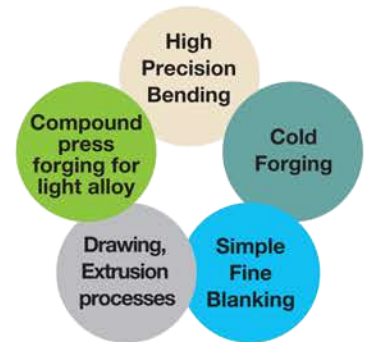
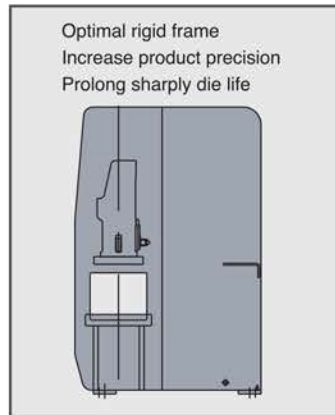
## Intelligent Link Drive Single Point Servo Press



### 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



Model		iLS1-110		iLS1-160		iLS1-200		iLS1-260	
Type		D		D		D		D	
		S	H	S	H	S	H	S	H
Capacity	US Tons	121	121	176	176	220	220	286	286
	Metric ton	110	110	160	160	200	200	260	260
Tonnage Rating Point	Inch	0.2	0.2	0.24	0.24	0.24	0.24	0.24	0.24
	mm	5	5	6	6	6	6	6	6
Stroke Length	Inch	7.09	7.09	7.87	5.12	7.87	5.91	9.84	7.09
	mm	180	180	200	130	200	150	250	180
Speed	SPM	~65	~100	~50	~85	~45	~70	~40	~60
Die Height	Inch	13.78	15.16	15.74	17.13	17.71	18.7	17.71	8.2719 in
	mm	350	385	400	435	450	475	450	485
Slide Area (L-R X F-B)	Inch	31.50 x 20.47	31.50 x 20.47	35.43 x 22.83	35.43 x 22.83	39.37 x 25.59	39.37 x 25.59	43.31 x 27.56	43.31 x 27.56
	mm	800 x 520	800 x 520	900 x 580	900 x 580	1,000 X 650	1,000 X 650	1,100 x 700	1,100 x 700
Bolster Area (L-R X F-B)	Inch	39.37 x 27.56	39.37 x 27.56	45.28 x 29.92	45.28 x 29.92	49.21 x 33.46	49.21 x 33.46	53.15 x 35.43	53.15 x 35.43
	mm	1,000 x 700	1,000 x 700	1,150 x 760	1,150 x 760	1,250 X 850	1,250 X 850	1,350 x 900	1,350 x 900
Bolster Thickness	Inch	4.72	4.72	5.9	5.9	6.3	6.3	7.09	7.09
	mm	120	120	150	150	160	160	180	180
Side Opening	Inch	29.53 x 19.68	29.53 x 19.68	31.49 x 22.04	31.49 x 22.04	35.43 x 24.02	35.43 x 24.02	37.40 x 25.98	37.40 x 25.98
	mm	750 x 500	750 x 500	800 x 560	800 x 560	900 x 610	900 x 610	950 x 660	950 x 660
Slide Adjustment - Powered	Inch	3.54	3.54	3.94	3.94	4.33	4.33	4.72	4.72
	mm	90	90	100	100	110	110	120	120
Slide Adjusting Motor	HP x P	0.5 (0.4Kw)x4	0.5 (0.4Kw)x4	1(0.75Kw)x4	1(0.75Kw)x4	1(0.75Kw)x4	1(0.75Kw)x4	2(1.5Kw)x4	1(1.5Kw)x4



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