

GL1

Series

C-Frame
Single Crank Link-Motion Presses

STAMTEC[®]
MECHANICAL PRESSES



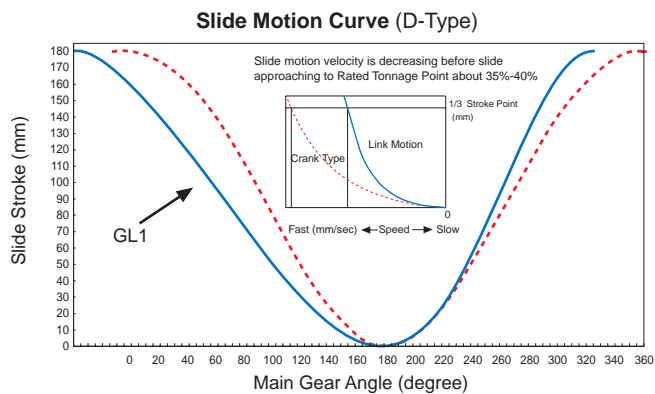
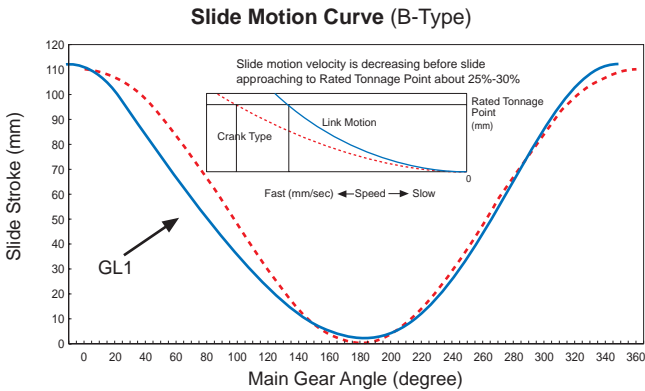
80.110. 160. 200. ton

GL1 Series

C-Frame Single Crank Link-Motion Presses

Link motion characteristic

A satisfactory slide down-stroke velocity can reduce the tool impact noise and vibration; a better working condition can be achieved. In comparison with the traditional crank type presses, the productivity is increased nearly 20% up to 40% by link motion press.



- Improve productivity
- Increase operability
- Improve working conditions
- Prolong toolings life
- A wider range for production
- High Performance link motion
- Two kinds of link motion models available for different products
- Improve stamping quality
- Reduce noise & vibration

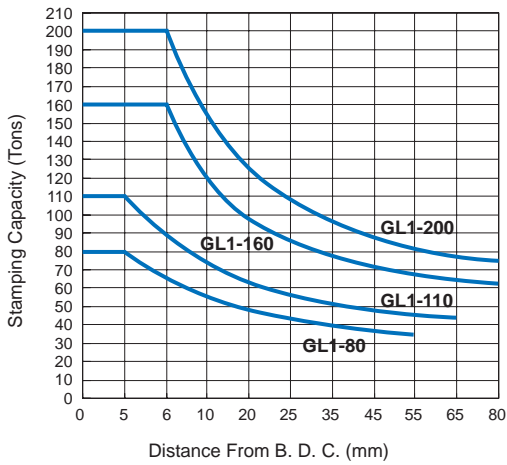


SPECIFICATIONS

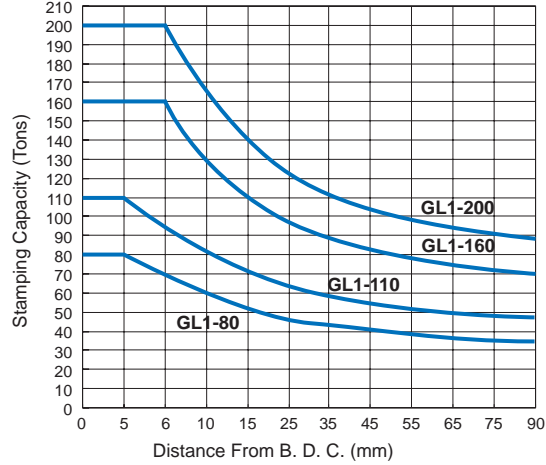
Model			GL1-80		GL1-110		GL1-160		GL1-200	
Type			B	D	B	D	B	D	B	D
Capacity	Tons/kn		80(784)		110(1078)		160(1568)		200(1960)	
Rated tonnage point	mm		5		5		6		6	
Stroke length	mm		100	160	110	180	130	200	150	200
Strokes per minute	Fixed speed	S.P.M.	60		50		45		35	
	Variable speed	S.P.M.	55~110	40~75	50~100	30~65	40~85	25~50	35~70	20~45
Die height (S.D.A.U.)	mm		300	330	320	350	350	450	410	450
Maximum upper die weight	kg		550		620		700		800	
Slide adjustment	mm		80		90		100		110	
Bolster area (L-R x F-B x T)	mm		1000X460	1000X600	1150X520	1150X680	1250X600	1250X760	1400X680	1400X820
Bolster thickness	mm		100		120		150		170	
Slide area (L-R x F-B)	mm		560X460		650X520		700X580		850X650	
Main motor	Fixed speed	HPxp	10X4		15X4		15X4		15X4	
	Variable speed	HPxp	VS 10X4		VS 15X4		VS 15X4		VS 20X4	
Slide Adjusting Motor	kWxp		0.4X4		0.4X4		0.5X4		0.75X4	
Die Cushion Device										
Capacity	ton		6.3		8		10		14	
Pad Area	mm		410X260		500X300		540X350		640X470	
Stroke	mm		70		80		80		100	
Dimensions										
Machine Width	L. R.	mm	830		970		1070		1275	
Machine Depth	F. B.	mm	1735	1855	2105	2115	2150	2295	2400	2550
Machine Height	H	mm	2820	2880	2980	3045	3310	3395	3700	3855

※ Die Cushion only for D-Type

Stroke-Capacity Diagram (B)



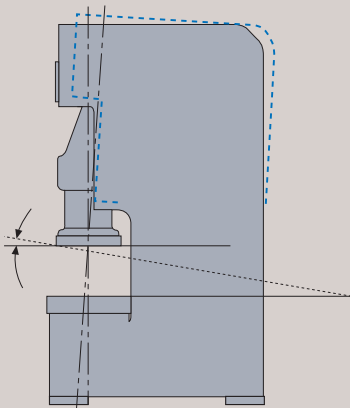
Stroke-Capacity Diagram (D)



High Performance wet type clutch

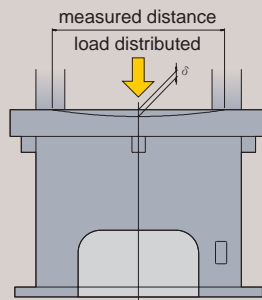
- Powerful
- Efficient
- Low inertia
- High torque
- Noiseless
- Asbestos-free
- Extra longer service life
- Lower maintenance cost

Super Rigid Steel Frame



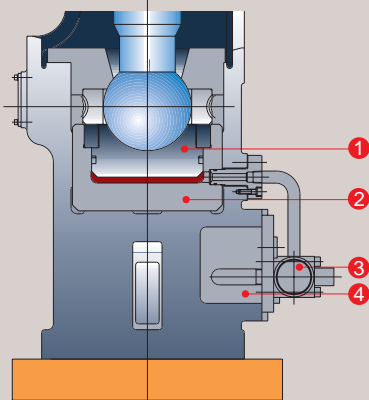
The Chin Fong GL1 Series is designed to resist deflection, and provide accurate pressings and longer die life, even at full tonnage loads. The heavy, one-piece welded steel frame is fully stress relieved and designed to provide a stable base for the GL1 Series presses.

Extra-ordinary deflection ratio



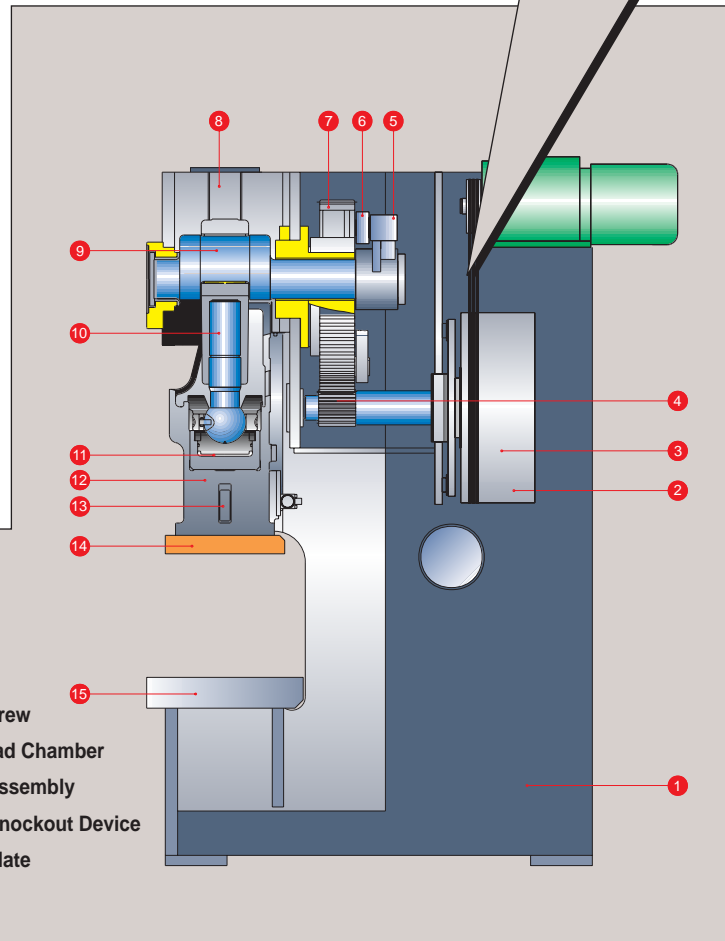
Hydraulic Overload Protector

Fast response
Synchronized oil pressure relieving

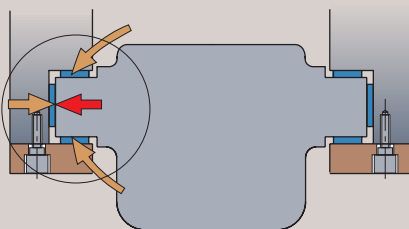


- 1 Piston
- 2 Hydraulic Cylinder
- 3 H.O.L.P.
- 4 Oil Tank

- 1. Frame
- 2. Flywheel
- 3. Wet Clutch
- 4. Transmission-shaft
- 5. Link-drive
- 6. Connection Rod
- 7. Main Gearwheel
- 8. Counterbalancer
- 9. Crank
- 10. Ball Screw
- 11. Overload Chamber
- 12. Slide Assembly
- 13. Slide Knockout Device
- 14. Slide Plate
- 15. Bolster

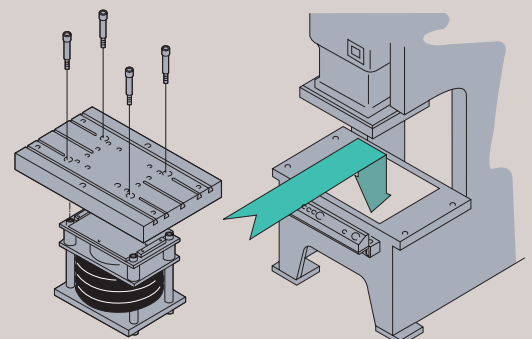


Extra Long, Precision, Six-point



Extra long gibs fully 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 offcenter loads.

Convenient Die Cushion Installation



The compact design of the die cushion avoids the need for a die cushion under the press. Bolted to the bolster for quick removal, allowing clear access for maintenance.

Smart

Micro-Processor Press Control System

MPC-3000

Main Operation Panel



I Operation Status Monitoring

- 1- Motion detector monitor broken shaft, crankshaft, excessive wear of lining, engagement and disengagement of clutch and brake device.
- 2- Motor status (Forward / Reverse / Consumption / SPM) displayed on LCD Displaying Screen, with the setting function.
- 3- Dual-circuit protection for safety light curtain and overrun.
- 4- Panel-displayed operation modes and Error Messages with Trouble-shooting instruction.

II Electronic Angle Control

- 1- Panel setting cam ON/OFF angel from LCD Displaying Screen.
- 2- 6-spare-cams as standard, and increase of 16-spare-cams can be added as options without mechanical modifications
- 3- Brake Monitor 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.

III Counters

- 1- Total counter, Pre-Set counter, Chop counter, Maintenance counter, and Life Counter are all provided.
- 2- Setting figures and Status of counters all displayed from LCD Displaying Screen.

IV Provision of interface for peripheral equipment

- 1- Cam angle controlled misfeed detection circuits A1 & B1 can be set for ON/OFF, and A2 & B2 can be set for all-time detection. A and B port can be set individually.
- 2- RS-485 module is available for the telegraph-communication monitoring and controlling.

V Remote Monitoring & Control System

- 1- Simultaneously monitor up to 256 presses to improve prod action management.
- 2- Provide on-line Trouble-Shooting procedures with error messages.
- 3- Illustrate statistical reports of production efficiency and output.

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

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

Option	Qty	Model	GL1-80		GL1-110		GL1-160		GL1-200																																																																																																																																																																		
			B	D	B	D	B	D	B	D																																																																																																																																																																	
			<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Die Clamp TX-type</p> <p>With "U" Cut in die set</p> <p>H</p> <p>Die Clamp TY-type</p> <p>H</p> <p>Die plate thickness, H, to be specified</p> </div> <div style="width: 65%;"> <table border="1"> <thead> <tr> <th rowspan="2">Option</th> <th rowspan="2">Qty</th> <th rowspan="2">Model</th> <th colspan="2">GL1-80</th> <th colspan="2">GL1-110</th> <th colspan="2">GL1-160</th> <th colspan="2">GL1-200</th> </tr> <tr> <th>B</th> <th>D</th> <th>B</th> <th>D</th> <th>B</th> <th>D</th> <th>B</th> <th>D</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Die Clamp</td> <td rowspan="2">Upper</td> <td>TX-2 or TY-2</td> <td colspan="2">Clamping Force 2 tons/pc</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TX-4 or TY-4</td> <td colspan="2">Clamping Force 4 tons/pc</td> <td>4</td> <td></td> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="4">Lower</td> <td>TX-6 or TY-6</td> <td colspan="2">Clamping Force 6 tons/pc</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>TX-2 or TY-2</td> <td colspan="2">Clamping Force 2 tons/pc</td> <td>4</td> <td></td> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TX-4 or TY-4</td> <td colspan="2">Clamping Force 4 tons/pc</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>TX-6 or TY-6</td> <td colspan="2">Clamping Force 6 tons/pc</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="5">Die Lifter</td> <td>DL28-400</td> <td>Pay Load 1.1 tons/pc</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DL28-500</td> <td>Pay Load 1.2 tons/pc</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DL28-600</td> <td>Pay Load 1.4 tons/pc</td> <td></td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td>2</td> </tr> <tr> <td>DL28-700</td> <td>Pay Load 1.5 tons/pc</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>DL28-800</td> <td>Pay Load 1.6 tons/pc</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> <tr> <td rowspan="3">Die Arm</td> <td>RC-700-600</td> <td>Pay Load 600 kg/pc</td> <td>2</td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RC-800-800</td> <td>Pay Load 800 kg/pc</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>RC-900-900</td> <td>Pay Load 900 kg/pc</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> <tr> <td colspan="3">Hydraulic Power Unit</td> <td colspan="2">FP6308U</td> <td colspan="2"></td> <td colspan="2">1</td> <td colspan="2"></td> </tr> </tbody> </table> </div> </div>											Option	Qty	Model	GL1-80		GL1-110		GL1-160		GL1-200		B	D	B	D	B	D	B	D	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				Lower	TX-6 or TY-6	Clamping Force 6 tons/pc				4			4	TX-2 or TY-2	Clamping Force 2 tons/pc		4		4				TX-4 or TY-4	Clamping Force 4 tons/pc				4			4	TX-6 or TY-6	Clamping Force 6 tons/pc								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	Die Arm	RC-700-600	Pay Load 600 kg/pc	2		2					RC-800-800	Pay Load 800 kg/pc					2			RC-900-900	Pay Load 900 kg/pc							2	Hydraulic Power Unit			FP6308U				1
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Hydraulic Power Unit			FP6308U				1																																																																																																																																																																				

BOLSTER

Fig. 1

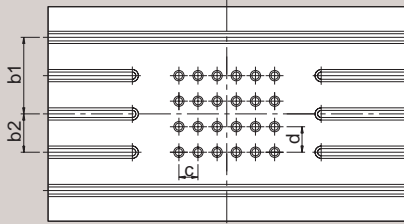


Fig. 2

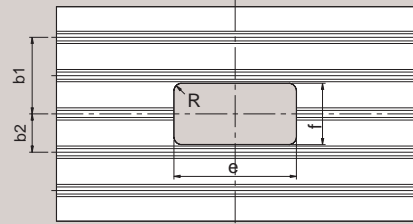


Fig. 3

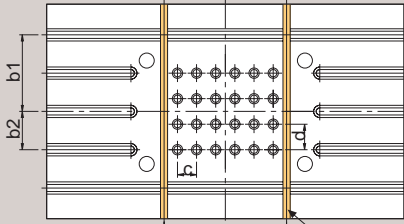
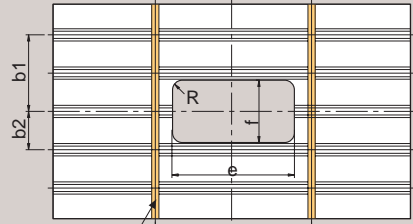


Fig. 4

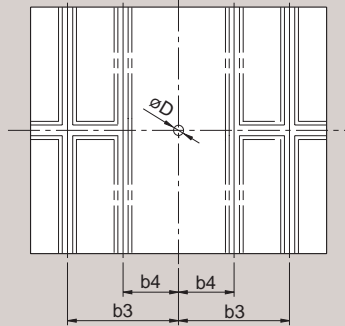


with "U" slot for die lifter

unit: mm

MODEL	OCP-80	OCP-110	OCP-160	OCP-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 $\varnothing 28^{+0.5}_{+0.1}$	24 x $\varnothing 28^{+0.5}_{+0.1}$	24 x $\varnothing 28^{+0.5}_{+0.1}$	35 x $\varnothing 28^{+0.5}_{+0.1}$
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

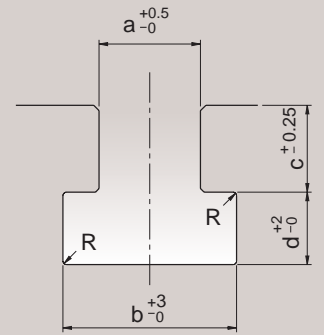
SLIDE PLATE



unit: mm

MODEL	GL1-80	GL1-110	GL1-160	GL1-200
Slide Plate Area (LR x FB)	560 x 460	650 x 520	700 x 580	850 x 650
Type of T-Slot	A	B	B	B
No. of T-Slot	2	2	4	4
Shank Hole Dia. D	$\varnothing 50$	$\varnothing 50$	$\varnothing 50$	$\varnothing 50$
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

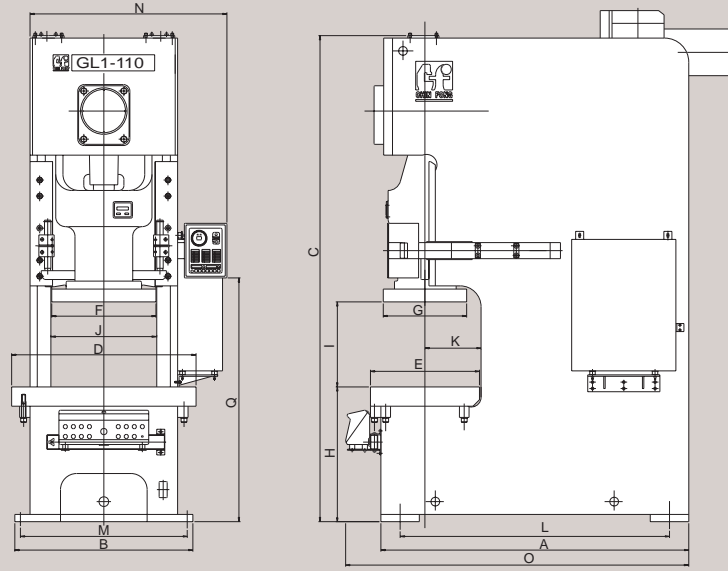
Standard Functions / Accessories

- Swivel Type Two-hand "RUN" Pushbutton Panel
- Panden Control Panel, MPC-3000
 - .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)
- Power Shut-off Switch for Electrical Cabinet Door Opening
- Dual-coiled Solenoid Valve
- Motorized Slide Adjusting Device
- Digital Die Height Indicator (unit:0.1mm)
- Manual Grease Pump
- Total Counter, 6 digits
- Preset Counter, 6 digits
- Maintenance Counter, 6 digits
- Life Counter, 12 digits
- Electronic Rotary Cam Switch (6 spare channel)
- Air Ejector, 3/8", one channel
- Air Source Receptacle, 3/8", one channel
- Misfeed Detection Consent
- Power Receptacle (available only for single phase, 110V power source)

Optional Functions / Accessories

- Die Cushion
- Eddy current V. S. Motor
- Slide Knockout Device
- Safety Light Curtain
- Motorized Grease Pump
- Main Motor Reversing Circuit.
- Portable 2-hand Pushbutton T- Stand
- Foot Switch
- Safety Block with plug
- Dual Solenoid Valve with Detector
- Inverter
- Misfeed Detector
- Flywheel Brake
- Anti-vibration Rubber Pads
- Anti-vibration Press Mounts
- Remote Monitoring & Control System
- Power Take-off Shaft
 - Crankshaft Front-end Extension
- Quick Die Change System
 - Upper
 - Lower Die Clamps
 - Die Lifters
 - Die Arms
- Anchor Bolts & Foundation Plates
- Die Room Light
- NC Straightener Feed c/w Uncoiler (3 in 1)
- NC Roller Feeder
- Straightener c/w Uncoiler (2 in 1)

OUTLINE DIMENSIONS



unit: mm

MODEL	GL1-80		GL1-110		GL1-160		GL1-200	
TYPE	B	D	B	D	B	D	B	D
A	1513	1635	1795	1895	1930	2075	2180	2330
B	1000		1130		1280		1370	
C	2820	2880	2980	3045	3310	3395	3700	3855
D	1000		1150		1250		1400	
E	460	600	520	680	600	760	680	820
F	560		650		700		850	
G	460		520		580		650	
H	833	833	840	840	915	915	1020	1020
I	400	490	430	530	480	600	560	650
J	598		700		750		850	
K	240	310	270	350	310	390	350	420
L	1253	1375	1555	1655	1630	1775	1730	1880
M	910		1055		1180		1275	
N	1140		1280		1430		1580	
O	1735	1855	2105	2115	2150	2295	2400	2550
Q	1300	1360	1345	1375	1560	1645	1643	1708



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