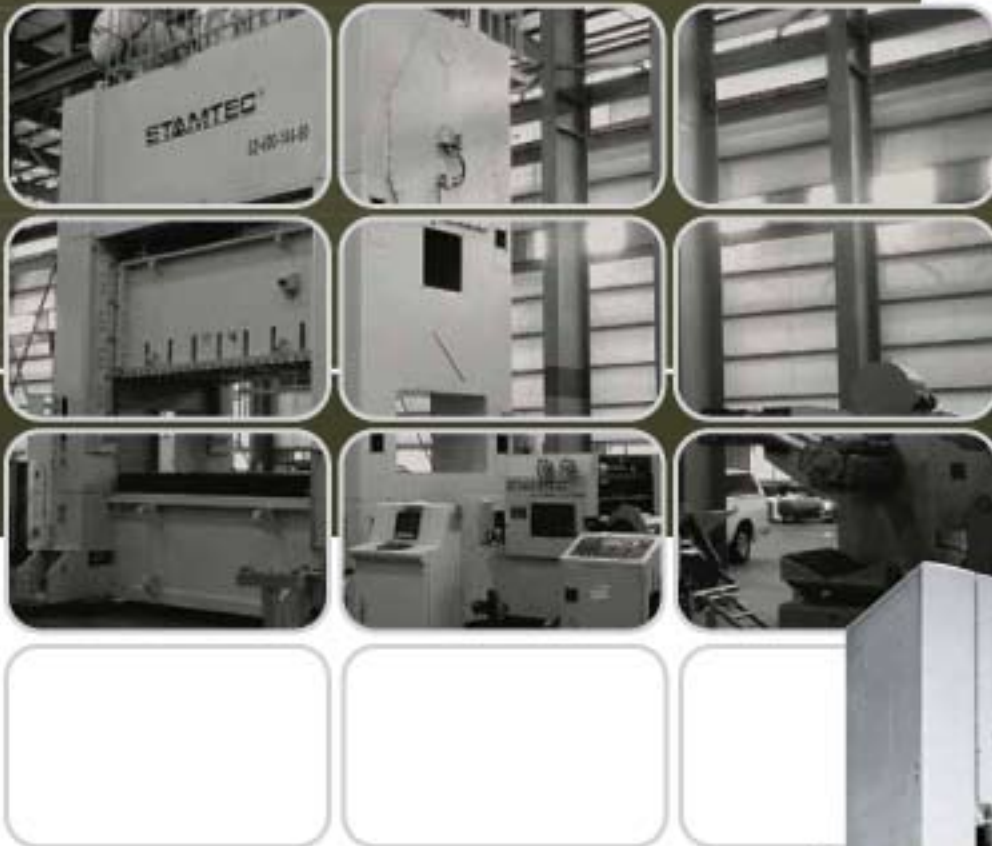


**Straight Side
Mechanical Presses**

S2



S2 SERIES

Straight Side Mechanical Presses

Durable

Reliable

Versatile



STRAIGHT SIDE MECHANICAL PRESSES

Tough, durable Stamtec straight side presses deliver high performance for diversified stamping requirements in hand-fed, progressive and transfer die operations. Built to your exact specifications, or available in several standard models from 150 tons and up, Stamtec presses can also be integrated with automation to achieve the efficiency and productivity required to compete in today's demanding manufacturing environment.

Let Stamtec's experienced team help you make a wise decision in choosing the right stamping equipment for your operation!

STANDARD FEATURES

- **Eddy-current or Variable Frequency Drive:** either type is available per customer preference.
- **Hydraulic Overload Protection:** unique dual-valve system protects both sides of the press from overload conditions.
- **Air Clutch and Brake:** either separated or combination type based on the specific application and press construction.
- **Micro-processor-based press control system:** user-friendly functionality, and compliance with global or local requirements for safety and operability.

OPTIONAL FEATURES and ACCESSORIES

- **Customized press and automation / monitoring controls:** using well-known brands such as Mitsubishi, Siemens, Allen Bradley, Wintriss, Link, etc.
- **Custom Specifications:** (e.g. bed size, stroke length, die height, etc.)
- **Link Motion:** Helps produce better-formed parts at higher production rates.
- **Hydraulic Clutch, or Wet Clutch:** based on application requirements and customer preference.
- **Quick Die Change Systems:** Hydraulic die clamps, lifters, rollers, and bolster extensions.
- **Rolling Bolsters:** Assist handling, loading, and transporting of large or difficult to handle dies
- **Die Cushions:** Based on customer's application requirements.

S2 SERIES

Straight Side Mechanical Presses

ROBUST DRIVE TRAIN SYSTEMS

The gears on Stamtec presses are hardened and precision ground for quiet, vibration-free performance and long life. Pinions are typically machined to alloy shaft forgings to eliminate the keyed joint which requires a larger than otherwise necessary shaft diameter. 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. Flywheel, driveshaft and intermediate shafts run in anti friction or spherical roller bearings. All materials are selected to provide superior strength, performance, and wear resistance characteristics.

DRIVE ARRANGEMENTS TO MEET DIVERSIFIED STAMPING NEEDS

Stamtec presses employ a variety of drive arrangements depending on application requirements including type of work (blanking, drawing, forming), type and size of dies, parts material specifications, production volumes required, etc.

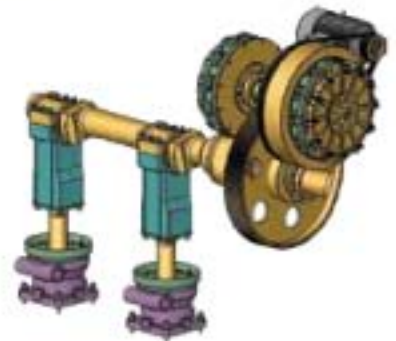
Single-Geared, Opposed, Counter-Rotating, Crankshafts

This arrangement is suitable for smaller tonnage presses with slide areas that are relatively long L-R vs. F-B, and capacities typically not exceeding 500 tons.



Single-Geared or Double Geared, Single-End Drive

This arrangement is suitable for blanking, forming and medium depth drawing on presses with relatively small L-R dimensions of slide, typically lower than 300 tons capacity.



Single-Geared or Doubled-Geared, Center Drive

This arrangement is suitable for heavy blanking, forming and medium depth drawing at higher speeds on presses with larger L to R dimensions of slide. Press tonnage would usually be from 200 tons up to 600 tons.



Single-Geared or Double Geared, Twin-End Drive

This arrangement may be necessary for heavier duty stamping on presses when larger L to R dimension of slide, longer strokes, and higher tonnage rating points are required. These types of drive systems run at the slower speeds often required for complex forming and drawing operations. Press capacity can be up to 3000 tons.



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Straight Side Mechanical Presses

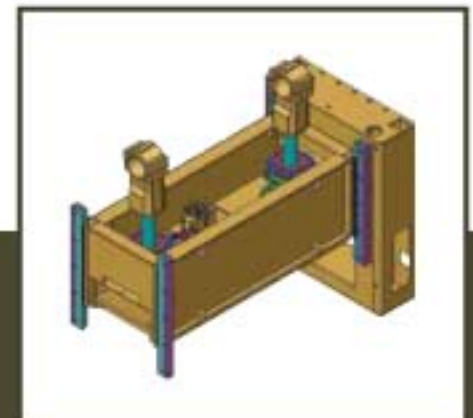
RIGID, BOX SECTION, ALL-STEEL FRAMES:

Stamtec rugged press frames are rigid, box type fabricated steel structures put through rigorous FEA (Finite Element Analysis) prior to manufacturing, and are designed for exceptional strength to properly resist deflection, torsion and vibration. This rigidity assures continued alignment of components even under heavy load, provides greater stamping accuracy, and helps extend die life. When required or specified, tie rod construction is employed to permit disassembly and reassembly. 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. The massive bed is built to a standard of no more than .0015" deflection per foot of bed length left to right and front to back, with a full-capacity load symmetrically distributed over 2/3 of the bed area. By providing superior compressive strength, and maximum resistance to deflection, torsion, and vibration, the Stamtec's press frame helps you produce precision stampings with minimum die wear.



BOX-TYPE SLIDE:

The Stamtec slide is a rigid, box type structure, fully thermal stress relieved, and built to a standard of no more than .0015" deflection per foot with the load symmetrically distributed over 2/3 of the slide area. The slide is guided by exceptionally long eight point gibbing for maximum control and accuracy. The adjustable gib-liners are of a nickel bronze alloy, ground for smooth finish and accurate fit. The ways are finished ground or machined for precision alignment to insure greater parts accuracy and longer die life. The slide is counterbalanced by one or two air cylinders, as required by the slide size. These are adjustable, air pressure cylinders, and can be set to properly compensate for the weight of the upper die. Stamtec's slide design an construction provides maximum strength to resist deflection and torsion.



EIGHT POINT FOUR WAY GIBS:

Stamtec's precise 8-point gibbing provides for accurate guiding of the slide throughout the stroke. Extra long gibs keep the slide fully contained at all points of stroke and slide adjustment. This feature, in conjunction with the rigid box type slide, results in maintenance of parallelism to the bed. Simple gib adjustment mechanisms allow for quick and easy alignment and setting of clearances.

CLUTCH AND BRAKE:

Many clutch and brake options are available, and are selected based on the application and budget:

- independent air friction clutch and brake
- combination air friction clutch and brake
- hydraulic clutch and brake
- wet clutch and brake

All units are designed to operate in a fail-safe mode. Should either electric or air supply fail, the clutch will disengage and the brake will engage.



MAIN MOTOR DRIVES:

Stamtec straight side presses are equipped with a compact eddy current variable speed drive or A/C variable frequency drive to permit adjusting the press speed infinitely within its range for optimum tuning of the die, material, feed length, automation, and parts removal.

HYDRAULIC OVERLOAD SYSTEM:

Highly responsive with an immediate oil dump feature and a unique dual-valve pressure switch arrangement, Stamtec 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, builds up the hydraulic pressure to the pre-overload setting, and resets the press control to allow resumption of normal operation.



Standard Overload Protector

CIRCULATING OIL LUBRICATION SYSTEM:

Highly responsive with an immediate oil dump feature and a unique dual-valve pressure switch arrangement, Stamtec 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, builds up the hydraulic pressure to the pre-overload setting, and resets the press control to allow resumption of normal operation.

OmniLink System

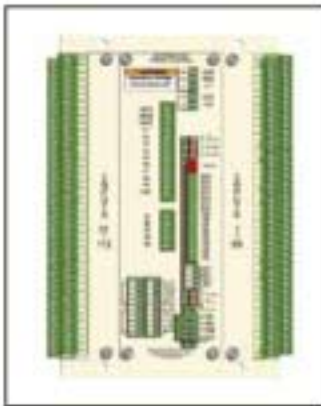
5100-MPC Press Controls



Link's custom engineered OmniLink System 5100-MPC part revolution mechanical power press controls provide unmatched features and flexibility to achieve the ultimate in pressroom productivity and safety at modest cost.

OmniLink 805 Operator Terminal: The user friendly OmniLink 805 Operator Terminal uses a Color 5.7"LCD TFT with 640 x 480 pixel resolution and touch screen.

OmniLink System 5100-MPC Press Controls are designed to meet all functional safety requirements of current and anticipated OSHA 29 CFR 1910.217, ANSI B11.1, and CSA Z142 standards, and to provide safety features in addition to these standards when properly applied, adjusted, installed and used.



STANDARD FEATURES

- **Stopping Time Performance (Brake) Monitor**
- **Motion Detection**
- **Clutch Engagement Time Monitor**
- **Counters:** Four counters are standard.
- **Die Protection:** Four Die Protection/Process Monitoring inputs standard.
- **Job Storage and Recall:** Parameters for up to 100 jobs can be stored.
- **Diagnostics:** The intelligent diagnostics of the OmniLink System 5100-MPC control are displayed in English or Spanish.
- **Stroking Modes:** Off, Inch, Automatic Timed Inch, Setup/Stop Time Test, Single Stroke (Cycle), and Continuous are standard, Automatic Single Stroke (Cycle), Maintained Continuous, and Continuous on Demand are optional.
- **Event Log:** Displays the date, time and reason for the last 256 stops.
- **Displays:** All system information in either English or Spanish.
- **Automatic Top Stop Compensation:** Automatically compensates top stop for speed to stop variable speed presses at top of stroke over the entire speed range.

OPTIONAL FEATURES

- **PLS Outputs:** Either four or eight optional programmable limit switch outputs are available to sequence and time automation with the stroking of the press.
- **Analog Speed Control/Load Option**
- **Tonnage Monitor:** 2 or 4 channel peak forward and reverse.
- **LinkNet:** The optional LinkNet information system allows presses equipped with the OmniLink System 5100 control to be connected with a computer equipped with Link's LinkNet software via a serial communications network.
- **Optional AD1 Angle/Speed Displays:** These displays provide a large graphical circular crankshaft position indicator and digital display of angle or stroking speed for visibility at a distance.
- **Communication Card:** For serial feed interface and/or LinkNet.
- **Safety Relay Modules:** Up to four safety relay outputs. These relays can be used to give automation used with the press production system control reliable stop signals when an emergency stop, light curtain or other protective input stop signal occurs.

S2 Series Specifications

		S2-330	S2-440	S2-440	S2-550	S2-550	S2-660	S2-660	S2-880	S2-880	S2-1100
Capacity	US Tons	330	440	440	550	550	660	660	880	880	1110
	Metric Tons	300	400	400	500	500	600	600	800	800	1000
Speed	spm	30-70	20-45	15-35	20-45	15-35	20-40	15-30	20-40	15-30	15-30
Rated Tonnage Point ABDC	in.	0.275	0.275	0.354	0.354	0.511	0.314	0.472	0.314	0.472	0.472
	mm	7	7	9	9	13	8	12	8	12	12
Stroke Length	in.	10.03	12.2	16.14	12.2	16.14	12.2	16.14	12.2	16.14	16.14
	mm	254	310	410	310	410	310	410	310	410	410
Die Height, Bolster to Slide (SDAU)	in.	26	25.59	27.55	23.62	33.07	27.55	35.43	31.49	39.36	39.36
	mm	660	650	700	600	840	700	900	800	1000	765
Slide Adjustment	in.	8.27	5.91	5.91	5.91	9.84	7.87	9.84	7.87	9.84	10.03
	mm	210	150	150	150	250	200	250	200	250	255
Slide Area (L-R x F-B)	in.	96 x 50	96.42 X 51.18	133.85 X 51.18	106.29 X 55.11	133.85 X 55.11	133.85 X 55.11	181.10 X 55.11	141.73 X 59.05	181.10 X 59.05	181.10 X 59.05
	mm	2440 x 1270	2500 X 1300	3400 X 1300	2700 X 1400	3400 X 1400	3600 X 1400	4600 X 1400	3600 X 1500	4600 X 1500	4600 X 1500
Bolster Area (L-R x F-B)	in.	96 x 55	96.42 X 55.11	133.85 X 55.11	106.29 X 59.05	133.85 X 59.05	141.73 X 59.05	181.10 X 59.05	141.73 X 62.99	181.10 X 59.05	181.10 X 59.05
	mm	2489 x 1397	2500 X 1400	3400 X 1400	2700 X 1500	3400 X 1500	3600 X 1500	4600 X 1500	3600 X 1600	4600 X 1500	4600 X 1500
Bolster Thickness	in.	7.08	7.87	7.87	8.66	8.66	9.84	9.84	9.84	9.84	12
	mm	180	200	200	220	220	250	250	250	250	305
Working Height- Floor to Top of Bolster	in.	39.37	37.4	37.4	37.4	37.4	39.37	39.37	39.37	39.37	47 (press in pit)
	mm	1000	950	950	950	950	1000	1000	1000	1000	1194 (press in pit)
Opening in Side Frames (F-B x H)	in.	35.43 x 27.56	25.59 X 23.62	25.59 X 23.62	27.55 X 27.55	27.55 X 33.46	29.57 X 27.55	27.55 X 31.49	31.49 X 31.49	31.49 X 35.43	44.09 x 31.50
	mm	900 x 700	650 x 600	650 X 600	700 X 700	700 X 850	750X 700	750 X 800	800 X 800	800 X 900	1120 x 800



STAMTEC®

MECHANICAL PRESSES

Stamtec has been providing dependable, affordably priced metal stamping presses for almost 30 years in the North American market, and 60 years worldwide through our parent company Chin Fong. Our 72,000 sq. ft. sales, service, logistics, and assembly facility in Tennessee is home not only to North America's largest inventory of new presses and spare parts, but also our most important asset - our people. Our staff of engineering, sales, service, and support personnel are here to serve you in the most timely and professional manner. So, tap into our global strength, and grow with us as we grow with you!



OCP SERIES

1-POINT GAP



G2 SERIES

2-POINT GAP



DLS / ILS1

INTELLIGENT LINK DRIVE
SINGLE POINT SERVO DRIVE



GTX SERIES

STRAIGHT SIDE
DOUBLE CRANK



COIL FEEDING & HANDLING SYSTEMS

STAMTEC®

MECHANICAL PRESSES

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