

iS2

Two-Point, Straight-Side
Direct Drive Servo Press





STAMTEC® Direct Drive Servo Press

Stamtec Servo Presses use the BEST in servo motor technology and controls to enable a virtually unlimited number of stroke and slide movement profiles, while supplying full working energy even at slow speeds / dwells.



How Stamtec Servo Presses impact on parts production

- More flexibility in applications
- More throughput with optimized production speeds
- Better forming capabilities
- Minimized impact forces and snapthrough
- Ability to perform secondary operations in-die (e.g. drilling, tapping, staking, welding, assembling, etc.)
- Better integration with work cells and automation



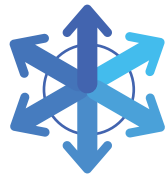
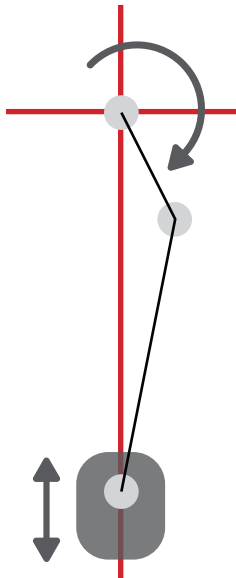
| | | iS2-176 | iS2-220 | iS2-330 | iS2-440 | iS2-550 |
|--|--|----------------|----------------|----------------|----------------|----------------|
|--|--|----------------|----------------|----------------|----------------|----------------|

| | | | | | | |
|---|----------------------|---------------|---------------|----------------|----------------|----------------|
| Capacity | Tons | 160 | 200 | 300 | 400 | 500 |
| Rated Tonnage Point (Above B.P.C.) | Inch | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| | mm | 6 | 6 | 6 | 6 | 6 |
| Stroke Length & Speed | | | | | | |
| Full Stroke | Inch | 8.66 @ 60 SPM | 9.84 @ 50 SPM | 11.81 @ 40 SPM | 11.81 @ 40 SPM | 13.77 @ 40 SPM |
| | mm | 220 @ 60 SPM | 250 @ 50 SPM | 300 @ 40 SPM | 300 @ 40 SPM | 350 @ 40 SPM |
| Pendulum | Inch | 5.15 @ 67 SPM | 5.90 @ 56 SPM | 7.08 @ 45 SPM | 7.08 @ 45 SPM | 8.26 @ 45 SPM |
| | mm | 131 @ 67 SPM | 150 @ 56 SPM | 180 @ 45 SPM | 180 @ 45 SPM | 210 @ 45 SPM |
| Pendulum | Inch | 3.34 @ 84 SPM | 3.93 @ 70 SPM | 4.72 @ 56 SPM | 4.72 @ 56 SPM | 5.51 @ 56 SPM |
| | mm | 85 @ 84 SPM | 100 @ 70 SPM | 120 @ 56 SPM | 120 @ 56 SPM | 140 @ 56 SPM |
| Max. Die Height | Inch | 17.71 | 19.68 | 23.62 | 25.59 | 27.55 |
| | mm | 450 | 500 | 600 | 650 | 700 |
| Slide Adjustment | Inch | 3.93 | 4.33 | 4.72 | 4.72 | 4.72 |
| | mm | 100 | 110 | 120 | 120 | 120 |
| Slide Area (LR x FB) | Inch | 64 x 23 | 76 x 27 | 90 x 33 | 94 x 43 | 94 x 43 |
| | mm | 1650 x 600 | 1950 x 700 | 2300 x 850 | 2400 x 1100 | 2400 x 1,100 |
| Bolster Area (LR x FB) | Inch | 76 x 31 | 88 x 35 | 102 x 43 | 106 x 47 | 106 x 51 |
| | mm | 1950 x 800 | 2250 x 900 | 2600 x 1,100 | 2700 x 1200 | 2,00 x 1300 |
| Side Opening | Inch | 31 x 15 | 35 x 17 | 43 x 21 | 47 x 23 | 51 x 25 |
| | mm | 800 x 400 | 900 x 450 | 1100 x 550 | 1200 x 600 | 1300 x 650 |
| Bolster Thickness | Inch | 6.29 | 6.69 | 7.48 | 7.48 | 7.48 |
| | mm | 160 | 170 | 190 | 190 | 190 |
| Max. Upper Die Weight | lbs. | 2,204 | 2645 | 4409 | 5571 | 6613 |
| | kg | 1000 | 1200 | 2000 | 2500 | 3000 |
| Slide Adjusting Motor | Kw _{xp} | 0.75 x 4 | 1.5 x 4 | 1.5 x 4 | 1.5 x 4 | 1.5 x 4 |
| Working Height | Inch | 37 | 39 | 45 | 47 | 51 |
| | mm | 950 | 1000 | 1150 | 1200 | 1300 |
| Air Pressure | kg / cm ² | 5 | 5 | 5 | 5 | 5 |

One Press - Diversified Performance

Stamtec Servo Presses break through the limits of conventional presses by performing multiple operations with different forming requirements.

With Stamtec's servo motor drive technology, the standard electric motor, flywheel and clutch and brake are replaced with a high-torque, low-rpm servo motor. Proprietary press controls specifically designed for the servo press achieve a wide variety of stroke lengths and slide movement profiles while supplying full working energy even at low speeds.



Angle Control

Transform conventional crank-angle control into slide height control.



Position Control

Directly input the desired slide height without repeatedly inputting the desired angles.

Powered by **SIEMENS**

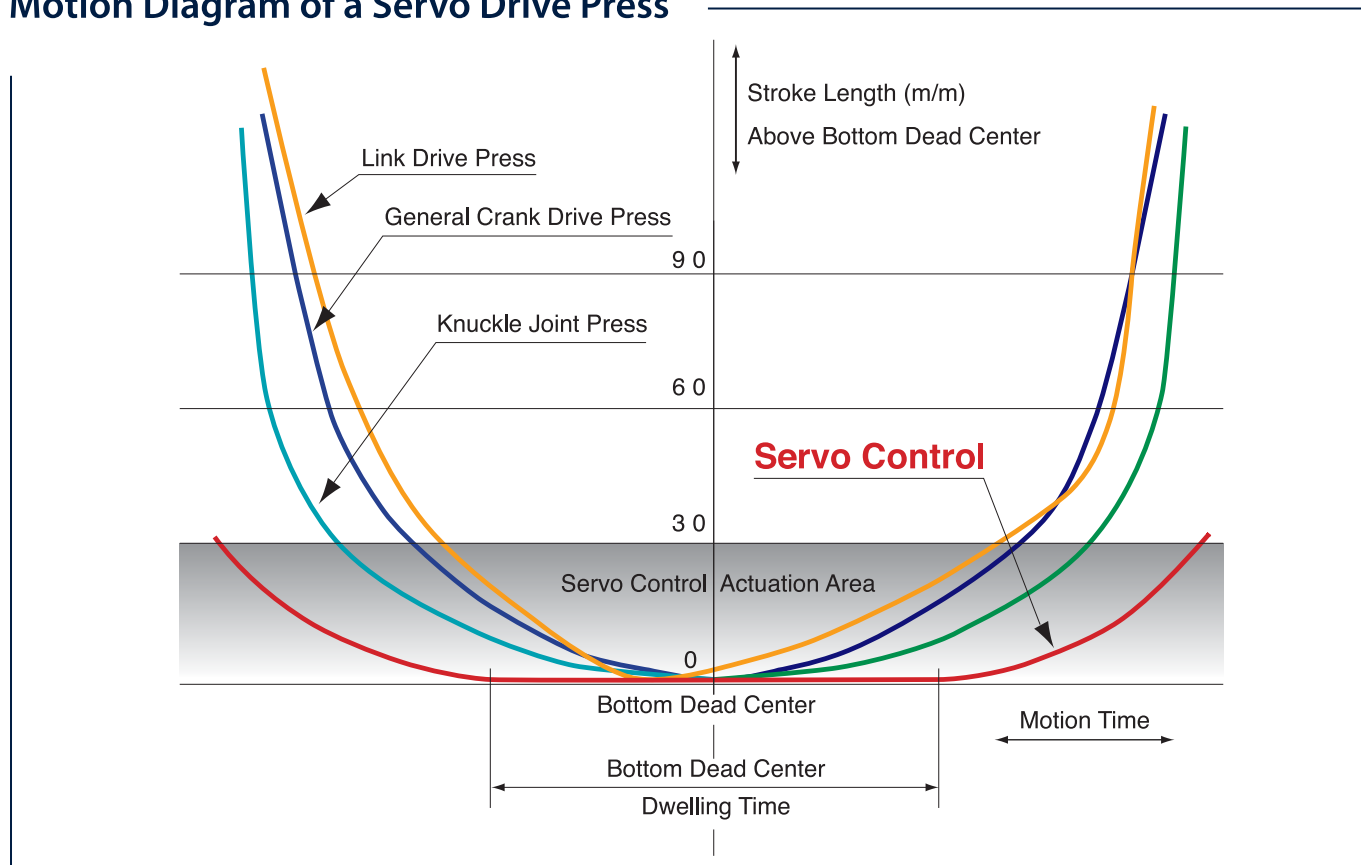


SIEMENS LIQUID COOLED SERVO MOTOR

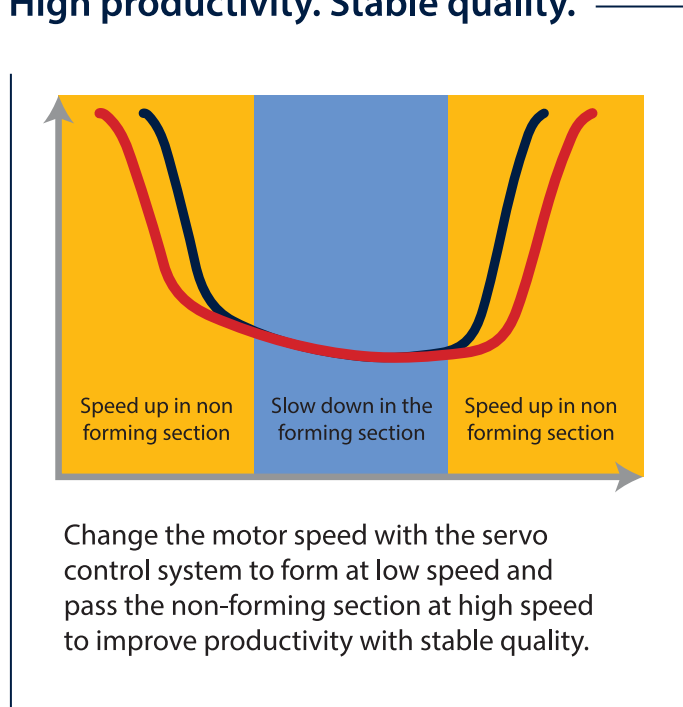
Siemens "SERVO DIRECT DRIVE" motors meet the most stringent demands on precision, dynamics and speed setting range as well as on high degrees of protection and ruggedness. The motors are fitted with the latest encoder technology and are optimized for operation with our fully digital drive and control systems.

In the case of natural cooling, the developing thermal loss is drawn off via the surface area whereas an attached fan forces thermal loss away with external cooling. Maximum cooling - and, therefore, maximum performance is achieved with water-cooling.

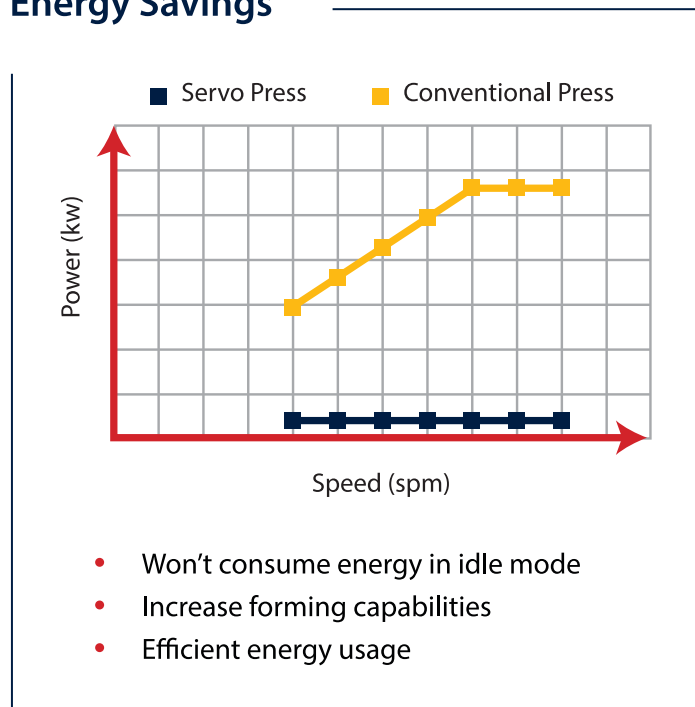
Motion Diagram of a Servo Drive Press



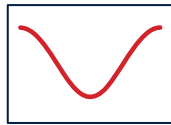
High productivity. Stable quality.



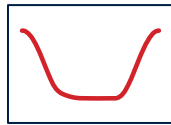
Energy Savings



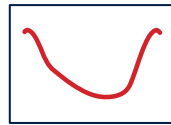
Diversified Curves



Crank Mode



Coining Mode



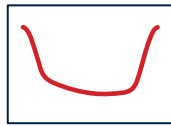
Link Mode



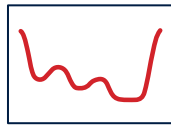
Mold Heating Mode



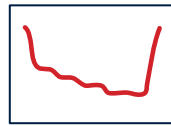
Feeder Mode



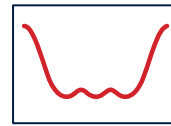
Fine Blanking Mode



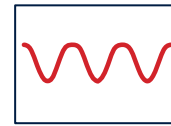
Pulse 1 Mode



Pulse 2 Mode



Swing Forging Mode



Pendulum Mode

Proprietary press controls are specifically designed for the servo press in order to achieve a wide variety of stroke lengths and slide movement profiles, while supplying full working energy capacity even at low speeds. This allows the user to perform a wide variety of jobs in one press (e.g. drawing, re-strike, warm forming, etc.) and easily adapt to automation and feed applications.

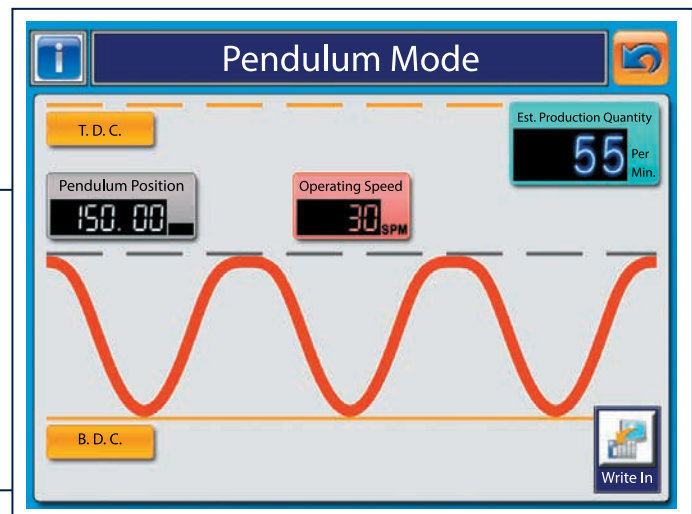
In addition, unique profiles can be requested by the end-user. Customized motion curves allow up to 20 various segments in a cycle curve, defined by segment position, speed, and pause duration parameters.

- Automatic slide adjustment and die height auto-correction (optical linear sensor)
- 100 job storage
- Pulse generator wheel for die try-out
- Energy saving- no flywheel, no constant motor, no clutch/brake engagement
- Lower slide velocity allows better material flow, better parts
- Lower die impact reduces noise and increases die life
- Optimization of press speed during working and non-working portion of stroke increases production speed.
- Easily synchronizes with other presses or automation
- Ethernet Link
- Task assignment software

Pendulum Mode

Increased productivity through the incorporation of pendulum mode.

Cycle time is decreased by reducing the stroke length.



STANDARD Features

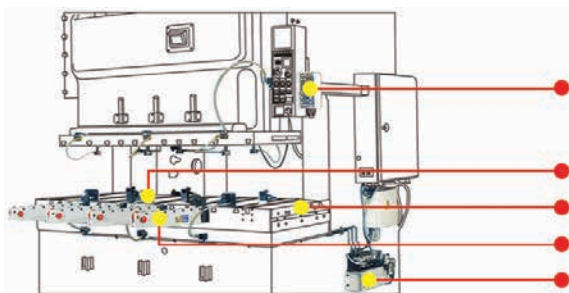
- Operation mode selection
- Off / Inching / Safety one stroke / Continuous
- Hydraulic overload protector(H.O.L.P)
- Automatic slide adjusting device
- Oil recirculating lubrication
- Slide & die counterbalancer
- Programmable Controlling System (PLC)
- +10° HMI Operation panel
- Electronic crank angle display
- Electronic S.P.M display
- LCD type Press status monitor
- Electronic rotary cam switch
- Misfeed detection socket
- Digital die height indicator
- Power outlet
- Air ejector
- Air source receptacle
- Misfeed detection circuit
- Portable 2-hand pushbutton T-stand
- Tooling database

OPTIONAL Features

- Pneumatic die cushion
- Die pin-hole tap
- Extended module of electronic rotary cam (8 spare channel)
- Automatic slide adjusting device
- Safety light curtain
- Power outlet 110V single-phase
- Power outlet 220V single-phase
- Anti-Vibration press mounts
- Tooling light (magnet type, 110V or 220V power source)
- Air source receptacle
- Automating peripheral equipment
- Quick die change system
- Bottom dead center repeatability detector
- Electronic hand wheel
- Safety block with plug
- Customized forming curves
- Tonnage indicator
- Front / Back safety door
- Optical linear scale

Quick Die Change System

Increase uptime by adding a Quick Die Change System to any NEW or EXISTING STAMTEC Press.



Control Panel

Die Clamp

Die Lifter Series

Die Arm Series

Power Unit





STAMTEC®

METAL STAMPING & FORMING EQUIPMENT

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!



GAP FRAME PRESSES

1-POINT AND 2-POINT



STRAIGHT SIDE PRESSES

1-POINT, 2-POINT AND 4-POINT



SERVO PRESSES

1-POINT AND 2-POINT
GAP AND STRAIGHT SIDE



FORGING PRESSES

WARM / HOT AND COLD



COIL FEEDING & HANDLING SYSTEMS

STAMTEC®

METAL STAMPING & FORMING EQUIPMENT

U.S.A. - STAMTEC, INC.

4160 Hillsboro Highway
Manchester, TN 37355 U.S.A.

TEL: +1-931-393-5050

FAX: +1-931-393-5060

sales@stamtec.com

www.stamtec.com

