STAMTEC®

METAL STAMPING & FORMING EQUIPMENT

iS2

Two-Point, Straight-Side Direct Drive Servo Press

176 . 220 . 330 . 440 . 550 tons

STAMTEC® Direct Drive Servo Press

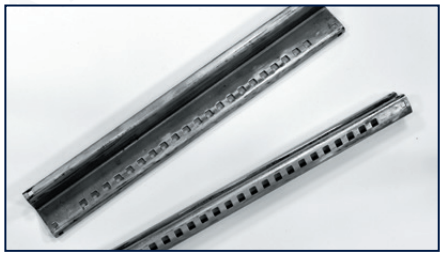
iS2

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.

https://www.stamtec.com/is2-series-direct-drive-servo-press

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
- Increased tool life



Call: 931-393-5050 | Visit: www.stamtec.com | Email: stamtecpresses@stamtec.com

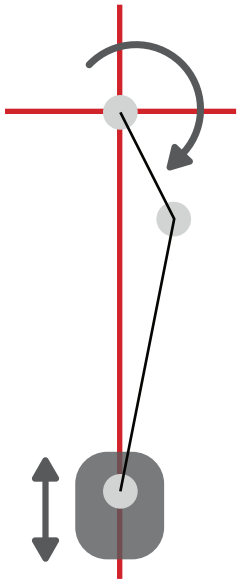
iS2 Specifications

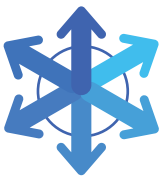
MODEL		iS2-176	iS2-220	iS2-330	iS2-440	iS2-550
Capacity	Tons	160	200	300	400	500
Rated tonnage point (Above B.P.C.)	in.	0.23	0.23	0.23	0.23	0.23
	mm	6	6	6	6	6
Stroke Length & Speed						
Full stroke	in.	8.66 @ 60 SPM	9.84 @ 50 SPM	11.81 @ 40 SPM	11.81 @ 40 SPM	13.77 @ 40 SPM
	mm	220 @ 60 SPM	250 @ 50 SPM	300 @ 40 SPM	300 @ 40 SPM	350 @ 40 SPM
Pendulum mode [at different stroke lengths]	in.	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
	in.	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	in.	17.71	19.68	23.62	25.59	27.55
	mm	450	500	600	650	700
Slide adjustment	in.	3.93	4.33	4.72	4.72	4.72
	mm	100	110	120	120	120
Slide area (LR x FB)	in.	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)	in.	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	in.	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	in.	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	Kwxp	0.75 x 4	1.5 x 4	1.5 x 4	1.5 x 4	1.5 x 4
Working height	in.	37	39	45	47	51
	mm	950	1000	1150	1200	1300
Air pressure	PSI	71	71	71	71	71
	kg / cm2	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 repetitively inputing the desired angles.

Servo Motor Drive Technology

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.

SERVO Motor

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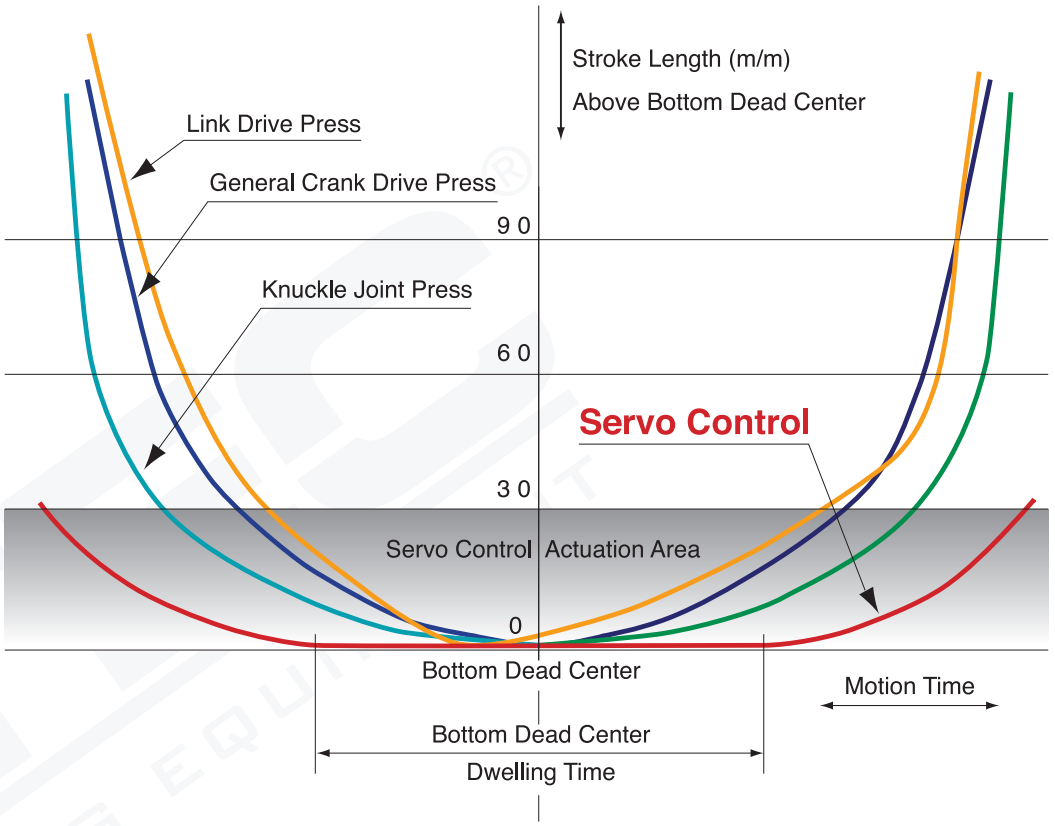
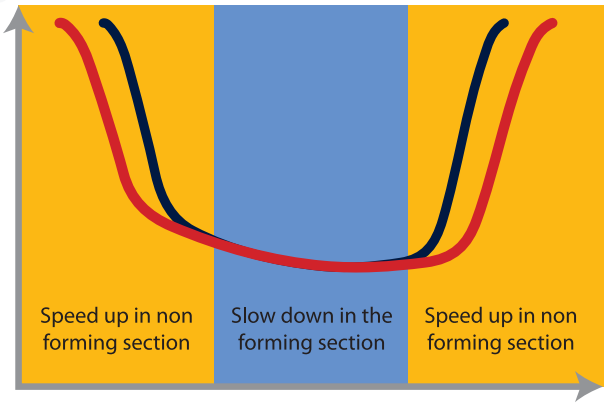
Motion Diagram of a Servo Drive Press

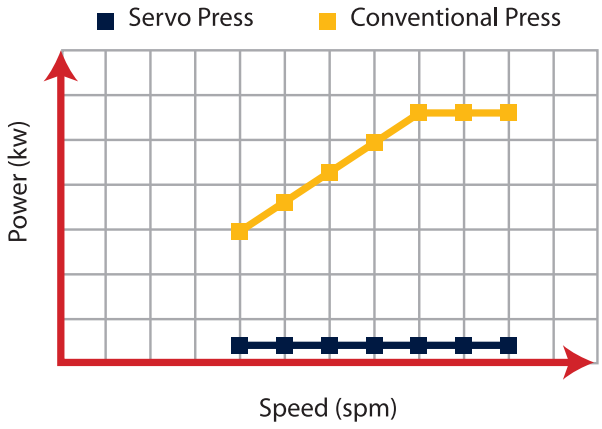


High productivity. Stable quality.



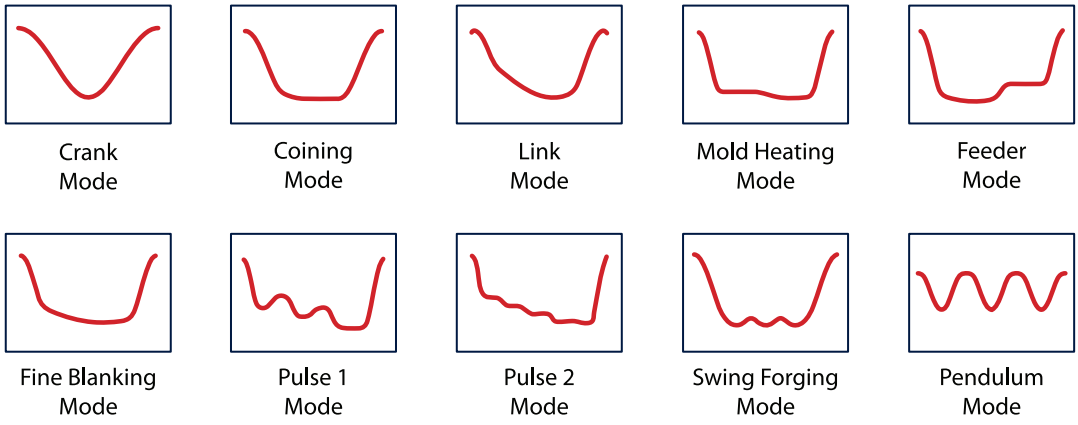
Change the motor speed with the servo control system to form at low speed and pass the non-forming section at high speed to improve productivity with stable quality.

Energy Savings



- Consumes less energy in idle mode
- Increase forming capabilities
- Efficient energy usage
- Energy reclaim system - puts energy generated during upstroke back into capacitor banks

DIVERSIFIED Curves



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.

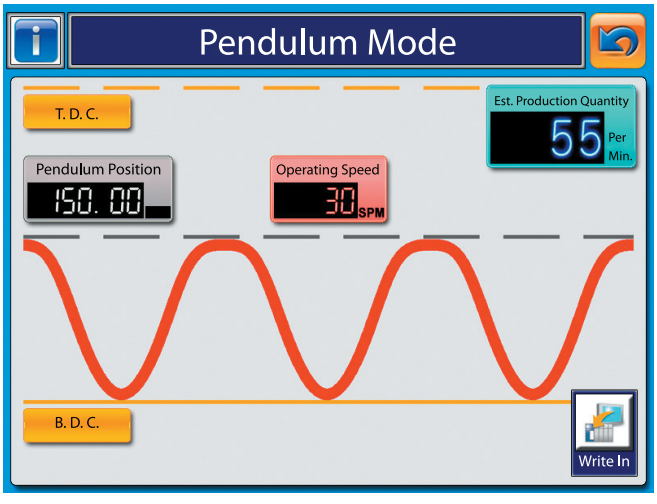
In addition, unique profiles can be requested by the end-user. Customized motion curves allow up to 20 various segments in a cycle curve, defined by segment position, speed, and pause duration parameters.

- 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.



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STANDARD Features

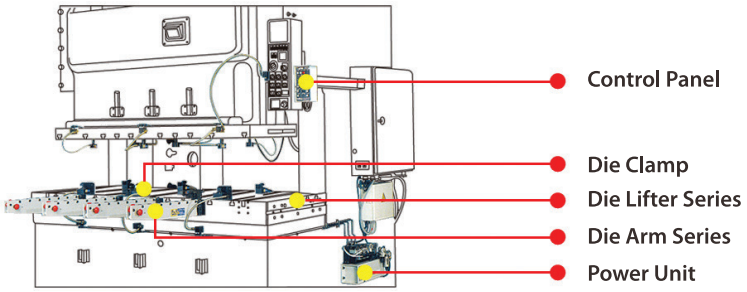
- Operation mode selection [Off / Inch / Single-Stroke / Continuous]
- Hydraulic overload protector [H.O.L.P]
- Oil recirculating lubrication
- Slide and die counterbalance
- Programmable controlling system [PLC]
- Electronic crank angle display
- Electronic S.P.M. display
- Touchscreen press status monitor
- Programmable limit switch
- Die protection
- Digital die height indicator
- Power outlet
- Air ejector
- Air source receptacle
- Portable 2-hand pushbutton T-stand
- Tooling database [100 pcs]
- Safety block with plug

OPTIONAL Features

- Pneumatic die cushion
- Bolster and slide plate modifications
- Additional PLS inputs
- Automatic slide adjusting device
- Safety light curtain
- Power outlet - 110V or 220V single-phase
- Anti-vibration press mounts
- Die area lighting
- Air source receptacle
- Automated peripheral equipment
- Quick die change system
- Bottom dead center repeatability detector
- Electronic hand wheel
- Customized forming curves
- Tonnage monitor
- 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.



As one of the largest press builders in the world, Stamtec has been providing dependable, high-performance metal stamping presses for more than 40 years in North America and 70 years worldwide. We also provide fully integrated press production systems including servo coil-feeding lines, transfer systems, quick die change systems, etc. 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. Please contact us any time for a free professional consultation about your press production needs. We'd welcome the opportunity to help you!

[Gap Frame Presses] [Straight Side Presses] [Servo Presses] [Forging Presses] [Coil Feeding & Handling Systems]

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