

PRESSES WITH SERVO DRIVE.

MSP SERIES.

These presses can be flexibly adapted to any requirement – stamping, forming, cutting, embossing or drawing. The MSP series has press forces of 2,000 to 4,000 kN that lead to higher outputs compared against conventionally-driven presses.



MSP 200 stamping machine with ServoDirect technology and two connecting rods.

STAMPING MACHINES AND SERVO PRESSES WITH SERVO DIRECTDRIVE.

Stamping machines and servo presses can run much more cost-effectively thanks to ServoDirect technology. The individual adjustment of the stroke height in combination with the reversing movement of the torque motor (oscillating stroke mode) leads to a significant increase in output compared to conventionally-driven presses.

Simultaneously the optimal adjustment of the slide kinematics to the process parameters results in a higher component quality and a longer die lifespan.



MSP 400 servo press in monoblock design.

The backlash-free drive system which requires no lubrication consists of two electrically connected, freely programmable drive units with torque motor and knuckle joint. This significantly increases the reliability of the process as there is no longer a possibility of the process lubricants – and press lubricants getting mixed – making these machines ideal for the packaging and food industries.

The pre-programmed slide movement curves are designed for a range of different processes. An optional curve generator is available for users to program the slide movement themselves.

TECHNICAL DATA

MODEL	MSP 200	MSP 400
Design	monoblock	monoblock
Press force [kN]	2,000	4,000
Bed length [mm]	Bed width [mm]	
1,800	1,100	
3,000		1,400
Kinematics of the servo drive	knuckle joint servo	knuckle joint servo
Number of pressure points	2	2
Shut height* [mm]	500	600 / 700
Slide adjustment [mm]	150	200
Slide stroke [mm]	20–160	60–300
Stroke rate** [1/min]	3–130	3–90

* Stroke at the bottom, adjustment at the top, with clamping plate.
**Stroke rate dependent on output of model as well as programmed stroke height and kinematics.

BENEFITS

- Significantly higher output compared to conventionally driven mechanical presses
- Five pre-programmed slide movement curves and curve generator ensure max. flexibility in the production process
- Attractive purchase price
- Short delivery times
- Easy and intuitive operation thanks to touchscreen with an individually configurable menu
- Longer die lifespan thanks to the optimal adjustment of the slide movement to the process parameters
- A backlash-free drive concept and widely positioned pressure points – allowing a smaller die clearance for more accurate stamping and forming parts
- Cost reduction thanks to intelligent energy management system and high energy efficiency: The electrical power consumption is reduced by up to 50 percent
- Condition-based maintenance concept with integrated maintenance plan and innovative condition monitoring
- The drive system requires no lubrication – leading to more reliable processes and greater efficiency