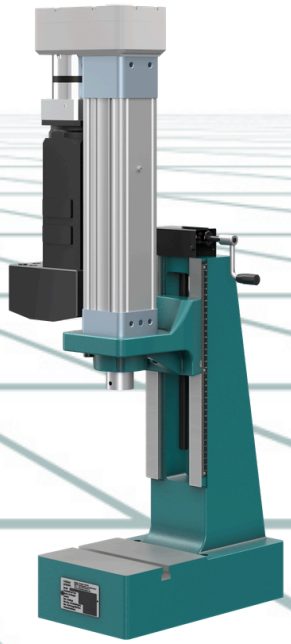
S-Press Servopress



It works.
Simple.
Reliable.

the flexible solution from mäder
e.g. for the

- mechanical engineering
- automotive
- electrical engineering
- watchmaking

industries and many more

Technical data at a glance::

- 5, 10, 20 oder 30 kN force
- 0 - 200mm stroke
- 100, 130 or 150 mm throat
- optionally with enclosure
- 400V power supply

Our new servo press stands for the **highest precision**, maximum **process control**, and **flexible application options**. The modern servo spindle drive enables precise control of force, stroke, and speed over the entire press stroke. This allows even demanding joining, pressing, or assembly processes to be carried out reliably and with reproducible results.

High travel speeds in rapid traverse reduce cycle times, while pressing is performed smoothly and under control in the force range. The **freely programmable pressing force** allows for quick **adaptation to different components and applications.**

Thanks to fully electric drive technology, the servo press operates energy-efficiently, quietly, and with low maintenance. The result: higher product quality, stable processes, and a **futureproof solution** for your production.

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Technical details

Parameter	Unit	5 kN	10 kN	20 kN	30 kN	Explanation / Comment
Target pressing force	kN	5	10	22	30	Maximum process force of the respective press
Continuous compressive force (S1)	kN	5.4	10.4	14.5	18.5	force that acts continuously without any thermal limitation
Max.pressing force (S3 25% ED)	kN	7.4	17.2	23.1	31.0	Highly skilled staff available on a short-term basis
spindle pitch	mm/U	5	5	5	10	
gear ratio	–	i = 3	i = 4	i = 4	i = 10	
Tool weight	kg	15	15	15	25	
Motor torque (S1)	Nm	1.6	2.3	3.2	3.2	Continuous motor torque
Max. motor torque (S3 25% ED)	Nm	2.2	3.8	5.1	5.1	Short-term motor torque
Rated current	A	2.9	3.4	5.2	5.2	Current at rated torque
Current resolution	A	0.1	0.1	0.1	0.1	Smallest adjustable force increment
Max. engine speed	rpm	6000	6000	6000	6000	Maximum speed in high-speed mode
S3 available until	rpm	4800	4800	4800	4800	Only S1 torque available above
Max. speed (fast feed)	mm/s	167.00	125.00	125.00	100.00	Fast movement without pressing
Maximum speed at full power	mm/s	125	100	94	80	Speed within the load-bearing range
Distance per revolution of the motor	mm	1.67	1.25	1.25	1.00	Output from spindle + gearbox
Displacement measurement	µm	0.410	0.305	0.305	0.244	Accuracy of displacement and force measurement
Force resolution specification	N	270	290	260	260	Smallest adjustable force increment
Stroke	mm	200	200	200	200	
Throat	mm	100	100	130	150	
T-nut width	mm	12	12	12	14	

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