

SCHMIDT® TorquePress

Torque-Power for Servopress

High-dynamic, powerful and low operation costs – these are the advantages by using a torque motor in the **SCHMIDT® TorquePress 200** with 200 kN nominal force and 500 mm stroke.

Torque motors are used for fast and precise move- and positioning tasks and make high torques available. Due to the hollow shaft design mechanical intermediate elements as gear, clutch or belt are not necessary. Especially in this range of performance the mentioned parts – operated under load – are subject to an accordingly high wear. Parts which are not required do not cause any costs and this reduces the service effort. Construction will be more rigid, this is very important in order to realize more dynamic motion-sequences in the assembly technology.



The very high torque of the **SCHMIDT® TorquePress 200** allows very high forces without additional mechanical transmissions. The considerably higher speed constancy compared to conventional drives entails a higher machine precision.

In comparison to high ratio electric motor driven spindle presses the **SCHMIDT® TorquePress 200** has an essential lower self moment of inertia and thereby a high dynamic. For this reason the run-up time from zero to working speed is very short. The noise remains remarkably low with all load conditions.

SCHMIDT® TorquePress 200 is permanent load stable due to its active temperature-controlled cooling, like all **ServoPresses** of **SCHMIDT Technology**. A mechanical overload protection becomes active in case allowable top force of 250 kN has been exceeded.

Further highlights are the highly precise, wear-free roller-guide of the ram, the integrated fail-safe force-stroke monitoring and a true closed loop force control integrated in the drive control (continuous force control). The integrated two-channel safety technology according to PLe allows the EC-type approval for complete systems, which is required for manual load work stations.

Technical Data	
Force F max.	250 kN
Force F at 100% ED	200 kN
Ram stroke	500 mm
Resolution (drive control)	< 0,1 µm
Process data acquisition	
- Force	8 µm/inc.
- Stroke	100 N/inc.
Ram speed (max.)	200 mm/s
Overload protection	Mechanical
Service life of the cycles acc. to standard operating profile	1 x 10 ⁷
Drive	Planetary roller screw drive
Power supply	400 V 3~ / 32 A, 400 V power socket CEE
Weight / height resp. length	
- Modul (approx.)	770 kg / 2300 mm (upright resp. horizontal)
- H-frame (approx.)	980 kg / 850 mm (upright resp. horizontal)
- Press base	approx. 125 kg / height flexible
Control unit	SCHMIDT® PressControl 5000