

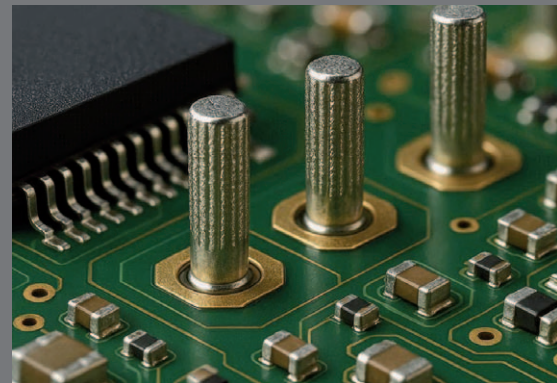
SCHMIDT[®] ServoPress 602

Precision in perfection



Reproducibility:
force 0,4 N | stroke $\pm 1 \mu\text{m}$

Complete workstation for microelectronics,
watch industry, medical technology, and
precision engineering.



SCHMIDT® ServoPress 602

The latest model of the **SCHMIDT® ServoPress** family is ideally suited for pressing tasks in applications such as fine mechanics, spring testing, medical technology, the watch and jewelry industry, as well as small motor and electronics manufacturing. The high-precision press can be equipped with a two-hand safety system, light curtain, or the **SCHMIDT® SmartGuard** solution. The following design features contribute to an unprecedented level of precision:

Precision Mechanics

The press ram is guided throughout the entire stroke using profile rails:

- Maximum stiffness, even at full stroke (no bending)

Force sensor integrated into the base:

- Mechanical overload protection
- Mechanical decoupling from the drive train

The press column, made of ground tool steel, is an integral part of the pressing system:

- High stiffness and dimensional accuracy

XY fine adjustment on the press table:

- Easy and precise alignment

Accuracy of Measurement Technology

Patented Absolute Position Measurement for the ram and press head:

- No need for a reference stroke to the datum position

The load cell is impervious to the effects of:

- Lateral forces
- The weight of the upper tool
- Thermal influences from the motor and mechanical friction

Standard Features

- Two air connections in the front cover plate, prepared for compressed air and/or vacuum in the work area
- Dimmable process area lighting integrated into the ram
- Status indicator (e.g. good/bad pressing result, machine status)
- Tool-free height adjustment of the press head, working height range from 86.5 – 136.5 mm
- Adapter for lubricating the ball screw, enabling lubrication in any position without removing the cover plates

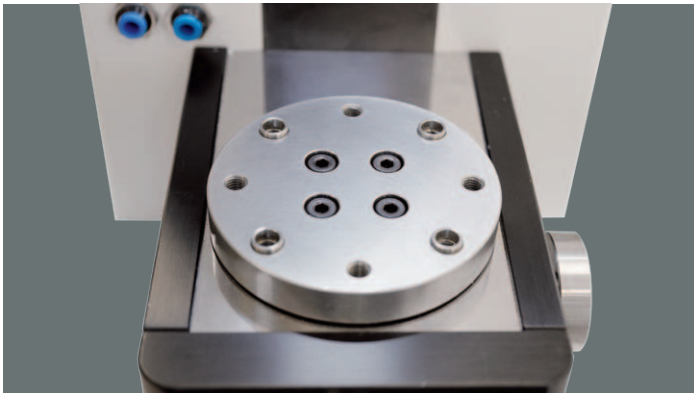


Safety Concept SCHMIDT® SmartGuard 602

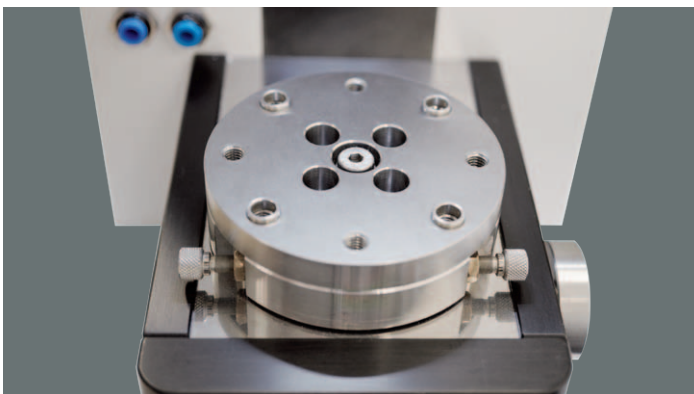
Technical Data	ServoPress 602
Force F_{max}	300 N
Nominal force F 100 % ED	200 N
Repeatability of force	0.4 N
Repeatability of position	$\pm 1 \mu m$
Accuracy of force	$\pm 1 N$
Resolution of force	0.1 N
Resolution of position	0.1 μm
Ram stroke	75 mm
Maximum speed	150 mm/s
Throat depth	70 mm
Dimensions W x H x D	158 x 648 x 337 mm
Weight	38 kg

Technical Data	SmartGuard 602
Opening stroke	up to 60 mm, programmable
Speed	up to 500 mm/s closing, up to 1000 mm/s opening
Dimensions W x H x D	357 x 735 x 380 mm
Weight	36 kg





Technical Data	XY slide table in the press table
Adjustment Range ± 0.5 mm	Fine adjustment for alignment optimization 1/100 mm



Technical Data	Turntable (Option)
Diameter	68 mm
Mounting thread	8 x TK55 M5
Centering sleeves	4 x 7 ^{H7} mm
Adjustment range	$\pm 10^\circ$, fine adjustment for alignment optimization 0,01°

SCHMIDT® PressControl 700

The SCHMIDT® PressControl 700 is used for individual workstations to control and monitor pressing and joining processes. The PressControl 700 communicates in real-time with process components via the powerful and fast EtherCAT fieldbus, which has a transmission rate of 100 Mbit/s and a transmission cycle of 0.5 ms. The process visualization appears directly on the PressControl 700 monitor. Through its Ethernet interface, the controller connects with higher-level MES systems, external PCs, and software such as SCHMIDT® PRC OPC UA, SCHMIDT® PRC FileXchange, and SCHMIDT® PRC DataBase.

- 10.1" Full HD Multi-Touch Screen
- Set up and parameterization functions via "drag & drop"
- Compact display of the entire process on the home view

Alternatively, SCHMIDT® ServoPress 602 is available with SCHMIDT® PressControl 7000RT and 7000 HMI.



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