

STUDER *smartLoad*

FOR THE S11 PRODUCTION CYLINDRICAL GRINDING MACHINE



- Automation for S11 production machine
- Fast setup and resetting in less than 15 minutes
- Can be operated via StuderWIN
- Suitable for small to large series
- Interfacing for other automation possible



The *smartLoad* is an integrated loader which picks up the parts externally the machine, loads them into the clamping system, and deposits them outside the machine again. This function can be combined with different peripheral systems and offers a wide range of application possibilities. Single parts, small series with a large part diversity, and large series are possible. The peripherals are either delivered by STUDER as

a standard solution or provided by the customer. The movement of the *smartLoad* is path-controlled, which simplifies its control. Its strengths are the small footprint, the quick and easy installation, and the simple operation. The *smartLoad* is available in two standard versions with different stroke variants. The grippers can be customized to meet the customer's requirements.

Machine types	S11
Spectrum of parts	Shaft and chuck components
Workpiece length	20 – 150 mm (0.8" – 5.9") (max. length depending on peripheral system)
Gripper diameter	4 – 25 mm (0.16" – 1")
Maximum workpiece diameter	25 mm (1") (larger on request)
Maximum workpiece weight	0,5 kg (1.1 lbs)
Workpiece changeover time	8 – 12 s
Stroke	648 / 918 mm (25.5" / 36.1")
Positioning accuracy	0,1 mm (0.004")

Peripherals

Synchronized conveyors

Floorspace requirement	760 × 2320 mm (30" × 91")
Autonomy	50 parts
Workpiece dimensions	dia. 4 – 25 mm (0.16" – 1"), length 20 – 150 mm (0.8" – 5.9")
Conveyor tact	8 – 10 s

Swiveling unit

Floorspace requirement	560 × 340 mm (22" × 13.4")
Autonomy	1 part in transfer position for external loader
Workpiece dimensions	dia. 4 – 25 mm (0.15" – 1"), length 20 – 150 mm (0.8" – 5.9")
Workpiece changeover time	10 – 12 s

