

STUDER *easyLoad*

FOR EXTERNAL AND UNIVERSAL CYLINDRICAL GRINDING MACHINES



- Simple standard automation for automation newcomers
- Fast setup and resetting in less than 15 min
- Simplest workpiece supply
- No programming knowledge required
- Short delivery time thanks to standardization
- Suitable for small and medium-sized series
- Can be operated via Studer Win

 **STUDER**

For machine types S31, S22, S33, S36 and S41 a loader solution is offered on the basis of a portal loader system with V-gripper. The loader system is suitable for shaft components up to a part length of 300 mm (11.8") and a grip diameter of 4 to 30 mm (0.16" to 1.18") (max. interfering contour – dia. 50 mm [2"]); it therefore covers the majority of the spectrum of parts produced on these machines.

The parts are supplied via a standardized, adjustable synchronized conveyor. The enclosure for the base module, which has been adapted to suit the machine design, enables safe and clean operation of the system.

Machine types	S31, S22, S33, S36, S41
Spectrum of parts	Shaft components, clamping between centers
Autonomy	50 workpieces with max. diameter 30 mm (1.2")
Workpiece dimensions	max. part length 300 mm (11.8")/min. part length 20 mm (0.8") max. grip - dia. 30 mm (1.2")/min. grip – dia. 4 mm (0.16") max. interfering contour – dia. 50 mm (2") max. part weight 5 kg (11 lbs)
Workpiece changeover time	6–8 seconds (excluding synchronous tailstock)
Conveyor tact	14–16 seconds
Control unit	Operation and control via Studer CNC
Interface	Studer CNC integrated

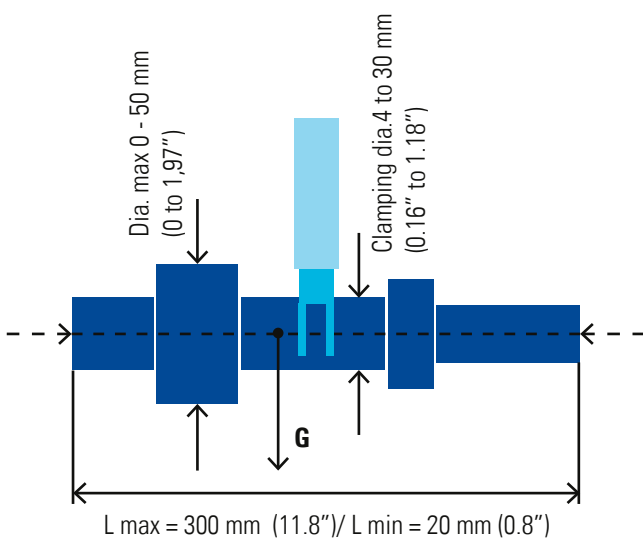
Configuration and equipment

Base frame with enclosure and set-up door, portal module with 1 carriage, NC-axis, two gripper units in V-arrangement with two pneumatic parallel grippers. Peripheral equipment including synchronized chain conveyor with V-block for unmachined parts, adjustable to different part sizes, forward and reverse indexing and a synchronized conveyor for finished parts.

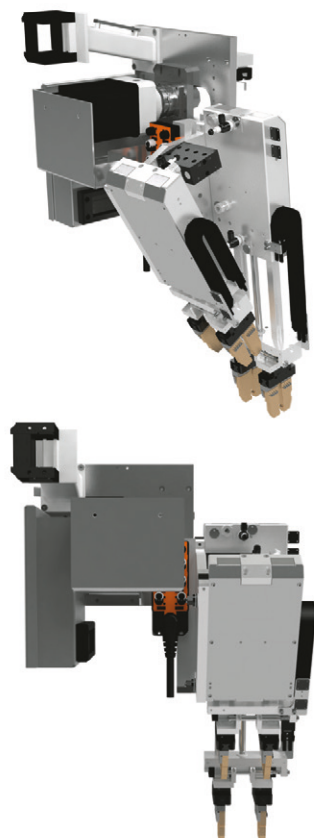
- SPC rack on finished part conveyor
- NIO in reject hatch (at rear of handling system)

Floorspace requirement approx. 1200×2500 mm (47"×98")

Part geometry



Part's center of gravity G should be close to the gripper



Gripper module in V-arrangement with two parallel grippers (standard/basic equipment)