

STUDER *easyLoad* for external and universal cylindrical grinding

For the S21, S31 and S36 machines, we offer a loading system based on the portal loading principle with V-grippers. The system is suitable for irregularly shaped workpieces measuring up to 300 mm in length and 30 mm in diameter, and thus covers a large proportion of the parts produced on these machines.

Parts can be fed into the system via the basic module, which is located on the outside of the machine, either on a standardized, adjustable belt or pallets. The enclosure for the basic module was designed to fit snugly round the machine and allows the operator to work safely and unhindered. Whatever the workpiece dimensions, changeover times of six seconds are possible.



Summary key data

Machine types:	S21, S31, S36, (S32, S40 on request)
Workpieces:	Shaft- and chucking applications
Max. Workpiece dimensions:	Ø 50mm x 300mm (2" x 12")
Max Gripper diameter:	Ø30mm (1.2") larger diameters possible with single gripper
Max Workpiece weight:	5kg (11 lbs)
Loading time:	< 6s (depending on clamping solution)
Loading cycle:	< 15s
Positioning accuracy:	↔ ± 0,25 mm (0.01") ↑↓ ± 0,15 mm (0.006")
Floor space:	1100 mm x 1400 mm (43" x 55")

Content of supply

- User interface integrated into machine control (Teach-In)
- SPC- and scrap channels / SPC via softkeys
- Mechanical and electrical interface
- Systemintegration (special acceptance on demand)



Pallets

Floor space		1100 x 1400 mm (43" x 55")
Autonomy:	Load	max. 3 pallets 300 x 400 mm (12" x 16")
	Unload	max. 3 pallets 300 x 400 mm (12" x 16")
Max. workpiece dimensions		gripper dia. 1-30 mm (.04"-1.2") max. workpiece dia. 40 mm (1.6") Length 20-300 mm (.8"-12")

Very high autonomy!



Short conveyor

Floor space		1100 x 1400 mm (43" x 55")
Autonomy		27 parts with max. dia. 30 mm (1.2")
Max. workpiece dimensions		gripper dia. 1-30 mm (.04"-1.2") max. workpiece dia. 50 mm (2") for loader geometry V-gripper Length 20-300 mm (.8"-12")

A very economic solution!



Long conveyor

Floor space		1100 x 2800 mm (43" x 110")
Autonomy		60 parts with max. dia. 30 mm (1.2")
Max. workpiece dimensions		gripper dia. 1-30 mm (.04"-1.2") max. workpiece dia. 50 mm (2") for loader geometry V-gripper Length 20-300 mm (.8"-12")

A very economic solution with high autonomy!



Heavy part gripper

Heavy parts can be loaded / unloaded with the heavy part gripper, clarification is however necessary.



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