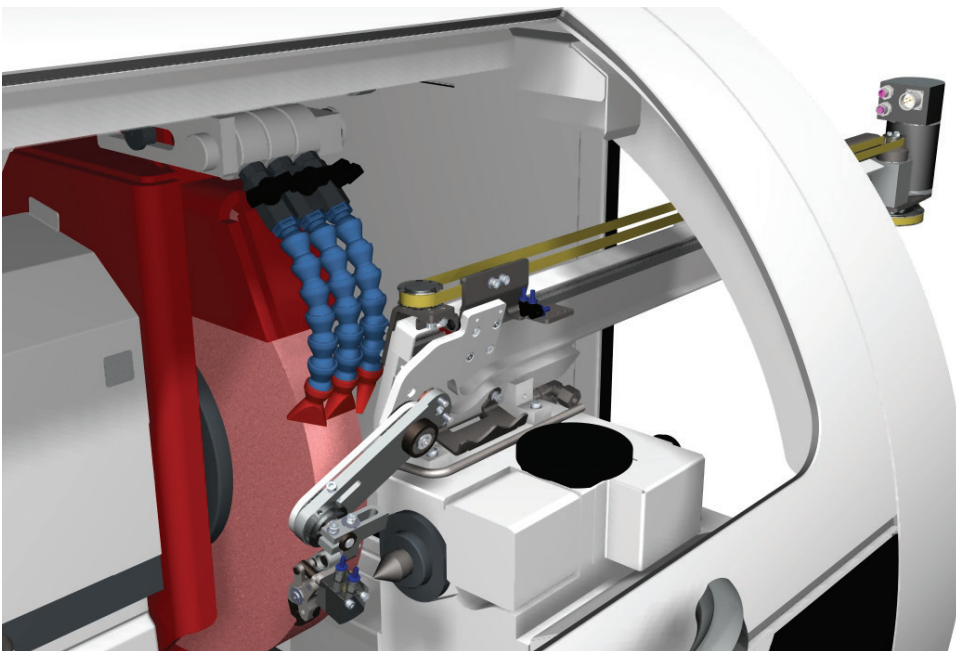


STUDER *smartLoad*

for the S11 production cylindrical grinding machine

The *smartLoad* is an integrated loader which picks up the parts outside 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 possible applications. Individual transfers, small series with a wide variety of parts and large series are possible. The peripheral system is 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 its compactness, its quick and easy installation as well as simple operation. The *smartLoad* is available in two standard versions with different stroke lengths. The grippers can be customized to meet the customer's requirements.

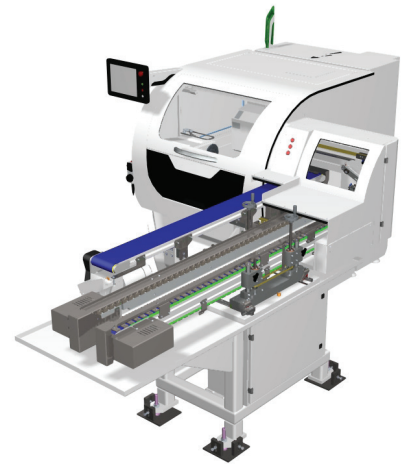


Machine types:	S11
Spectrum of parts:	Shaft and chuck components
Workpiece length:	20 - 150 mm (0.8"-5.9") (max. length depending on peripheral system)
Gripper diameter:	4 - 25 mm (0.16"-1")
Maximum workpiece diameter:	25 mm (1") (larger on request)
Maximum workpiece weight:	0.5 kg (1.1 lbs)
Workpiece change time:	8 - 12 s
Stroke:	648 / 918 mm (25.5" / 36.1")
Positioning accuracy:	0.1 mm (0.004")

Peripherals

Synchronized conveyors

Installation space:	760 x 2320 mm (30" x 91")
Autonomy:	50 parts
Workpiece dimensions:	dia. 4 – 25 mm (0.16"-1") length 20 – 150 mm (0.8"-5.9")
Workpiece change time:	8 – 10 s



Swiveling unit

Installation space:	560 x 340 mm (22" x 13.4")
Autonomy:	1 part as transfer position for external loader
Workpiece dimensions:	dia. 4 – 25 mm (0.15" - 1") length 20 – 150 mm (0.8"-5.9")
Workpiece change time:	10 – 12 s



Rotary magazine

Installation space:	560 x 340 mm (22" x 13.4")
Autonomy:	8 parts
Workpiece dimensions:	dia. 4 – 25 mm (0.15" - 1") length 20 – 70 mm (0.8"-2.7")
Workpiece change time:	9 - 11 s



FritzStuderAG
CH-3602 Thun
Tel. +41-33-439 11 11
Fax +41-33-439 11 12
www.studer.com