

Productivity and Precision without Compromise.

S250M Steering

Steering Rack Milling Machine



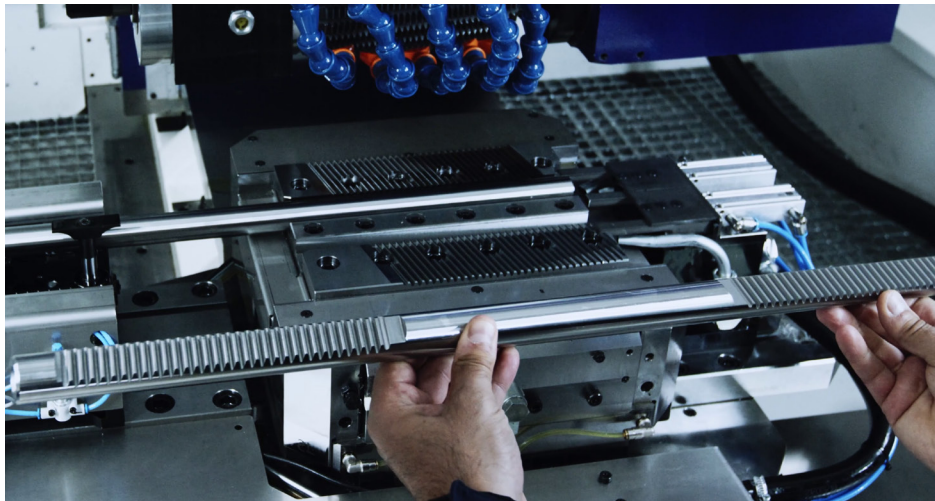
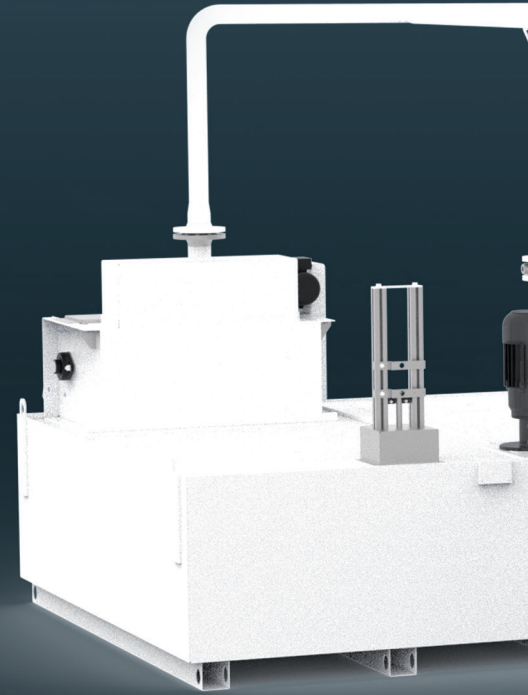
- ▶ Steering rack production
- > Bandsaw blade production
- > Rack production
- > Clamping tools

S250M Steering

Quality, consistency and volume; the brand new S250M steering rack milling machine delivers on all fronts. With a focus on world-class quality our team of engineers have designed our latest steering platform to achieve the highest standards of precision within a system that is designed for economical cost per part.

Whether single or dual pinion, our latest twin clamping system ensures manual and automated operations can be completed with ease and at volume. Supplied either as a single workstation for standard racks or as a completely automated 2-station cell for dual pinion manufacturing, the S250M is available with a range of flexible automation options.

With an integrated coolant management system the S250M offers a compact, flexible solution to high volume steering rack manufacturing. And with the ability to change the tooling in a matter of minutes, machine uptime as well as part flexibility can be maintained at all times.



Milling - Clamping

A brand new milling head, a hybrid machine bed and slide, a re-engineered outboard bearing and an upgraded clamping fixture...The S250M isn't just a new model, it's a completely new machine!

The new F1-HSK milling head with computer-controlled power transmission delivers unbeatable torque within a perfectly balanced rpm-range. Coupled with our latest outboard bearing, running trueness has been improved even more, enhancing finished surface quality and extending tool life.

Our latest twin clamping unit, with centric clamping, can be customised for single or dual pinion and optimised for manual or fully automated operation.



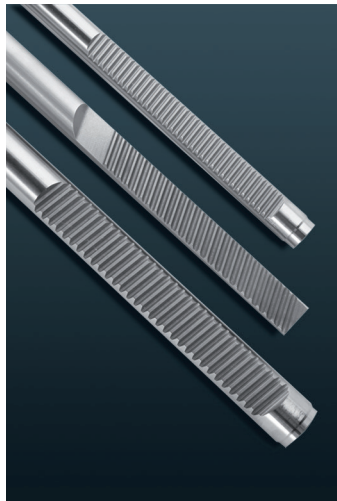
Operating System

The Siemens 840D sl operating system combines high-performance hardware architecture and premium class drive and motor technology to ensure highly dynamic performance and machining precision. This allows the S250M to be integrated alongside a range of IT environments and automation systems.



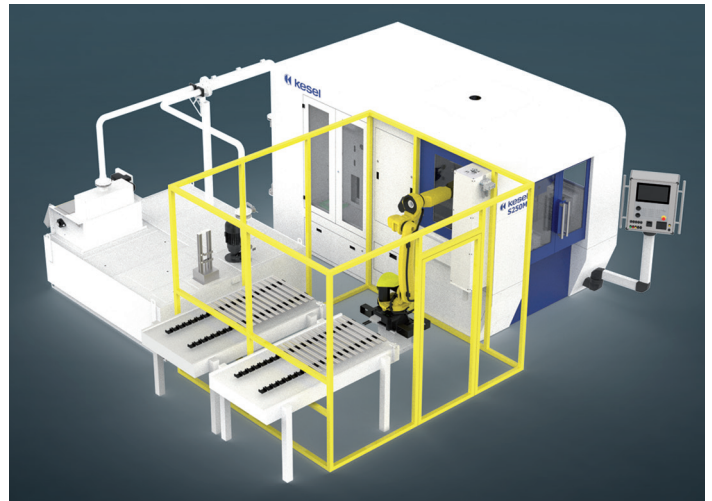
Coolant and Swarf Removal

In-depth analysis and design by our engineering team has led to our latest coolant and chip management system. Outstanding chip extraction and cooling performance is achieved to ensure optimal tool life and part quality.



Steering Racks

The S250M is specifically designed for steering rack manufacture but within this manufacturing segment it really is an all-rounder! Whether single or dual pinion, standard or ball-screw racks, the S250M provides high precision, high volume manufacturing capability regardless of the rack type.



Automation

The S250M has numerous manual and automated setup options for absolute flexibility. Either as a single workstation or a completely automated dual pinion cell, there is a perfect setup for every application.

Watch the video now!

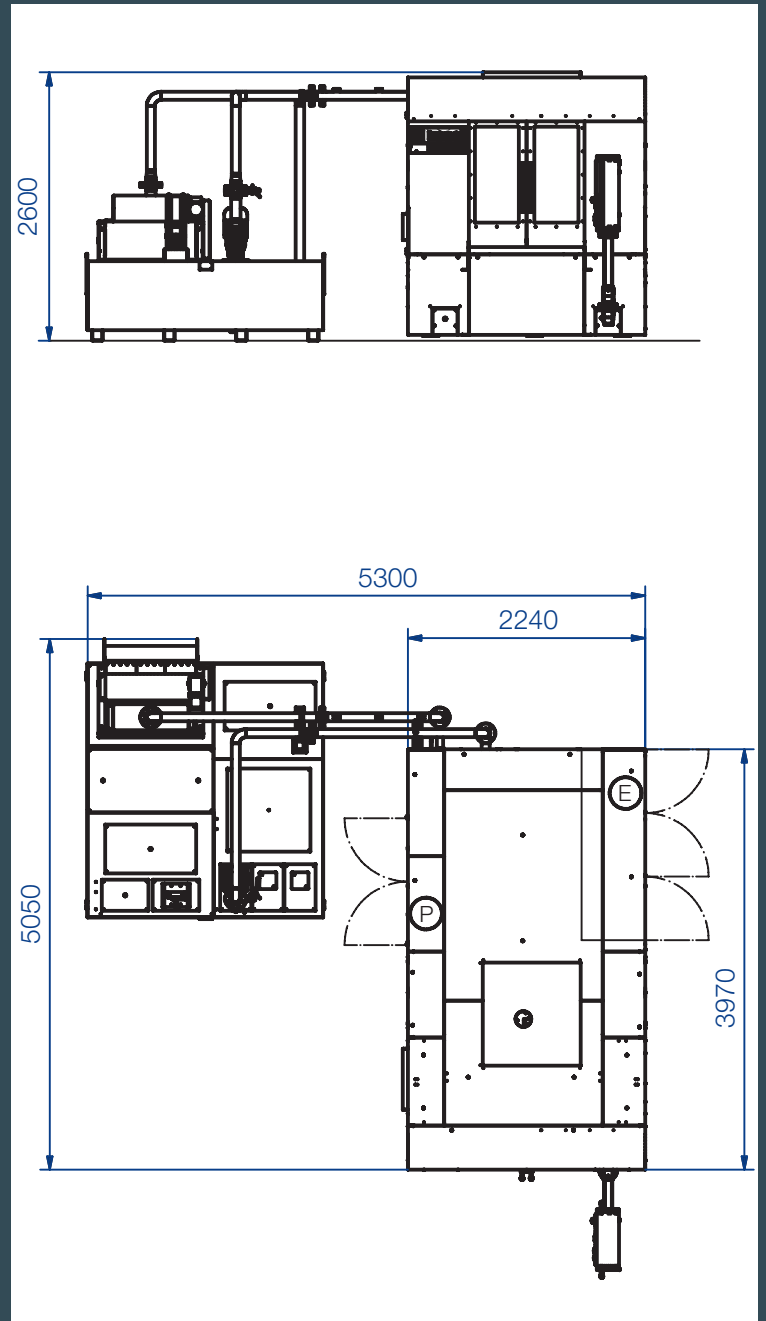
Scan the QR-Code and enjoy the S250M's productivity and precision.



Specification - S250M Steering

Travel range	
Y-axis (cutting depth)	255 mm
Z-axis (milling stroke)	580 mm
B1-axis (swivel axis)	+/- 25°
Milling head	
Type	F1-HSK, modified transmission with increased power drive
Power	45 kW S6 40%
RPM	max. 450 rpm, infinitely variable
Milling arbor	HSK-B125 DIN 69893
Min. cutter diameter	170 mm + 2 x cutting depth
Max. cutter diameter	310 mm
Max. tool width	250 mm
Control	
Siemens SINUMERIK 840D sl	
Clamping system	
Specifically designed clamping unit for dual-clamping of steering racks, for single pinion or the first toothing on dual-pinion racks.	
Coolant and swarf removal	
Cooling lubricant	Oil
Filling capacity	3,300 litres
Swarf removal via recirculation pump	
Seperation via magnetic filter roller	
Electrical connection	
Voltage	3 x 400 V
Amperage	80 A
Dimensions and weight	
Installation dimensions:	length 5,300 mm x depth 5,000 mm x height 2,600 mm
Machine weight	approx. 17,000 kg
Options	
<ul style="list-style-type: none"> - Robot automatisaton for loading and unloading - Milling accessories for different types of steering racks - Cooling unit for exact temperature control of coolant - Micro filter upgrade option for enhanced filtration - Tool changing device - Automatic fire extinguishing unit - Automatic door opening for loading and unloading 	

Additional accessories upon request.



approx. dimensions of the S250M Steering