

SPINNER

TS850 / TS850-XL

LATEST
Generation
Siemens
Sinumerik ONE
or
Fanuc Oi-F Plus
NEW HMI

Universal Lathe

For precision machining



Mechanical Engineering

Made in Germany

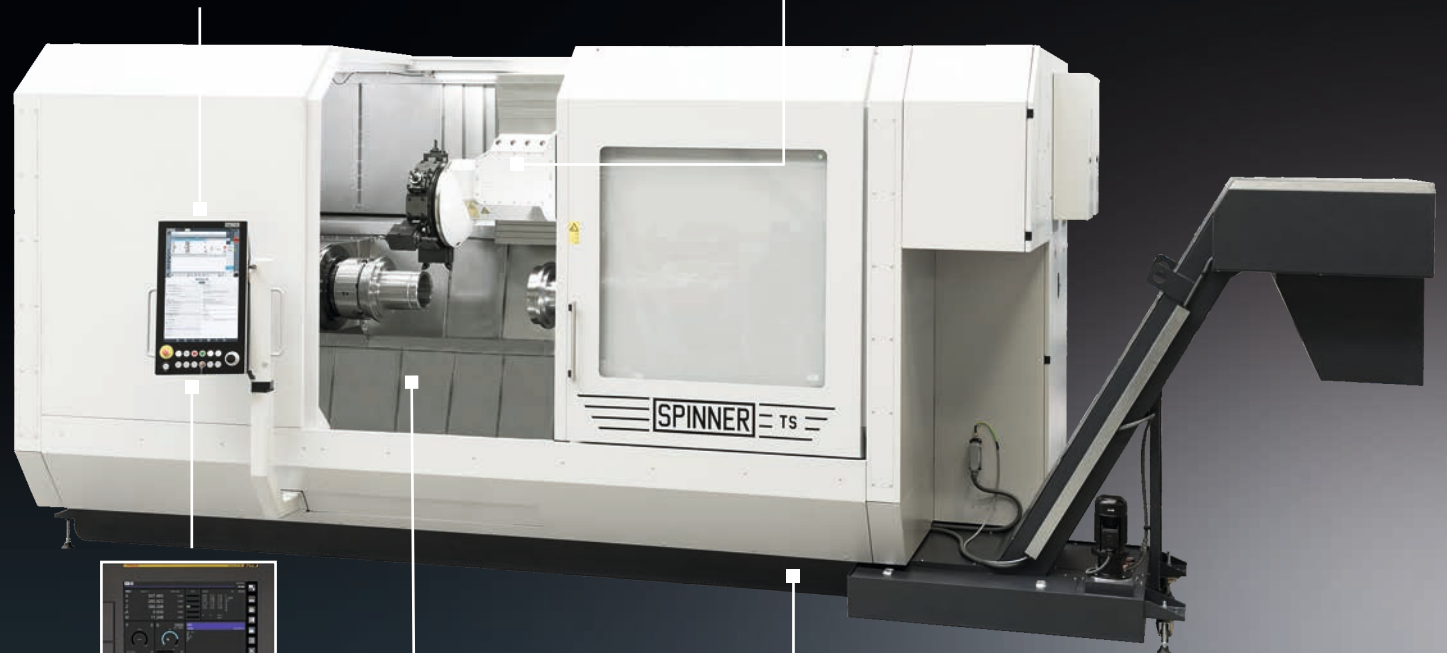
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Machine Highlights

The TS850 and TS850-XL is our top-line high-performance lathe **MADE IN GERMANY** with a large working area for high-performance and universal machining. The machine is available in two bed lengths for turning lengths up to 1250 mm/49.2 in (TS850) or 1850 mm/72.8 in (TS850-XL). The 90-degree inclined bed offers optimum chip fall and comparatively compact machine dimensions. First-class components for turrets and spindles manufactured by SPINNER. Universally applicable for demanding machining tasks.

State-of-the-art control system from Siemens or Fanuc on an easy-to-move operator panel

Y-axis in turret 1

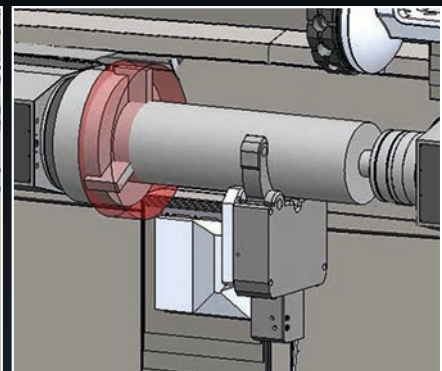
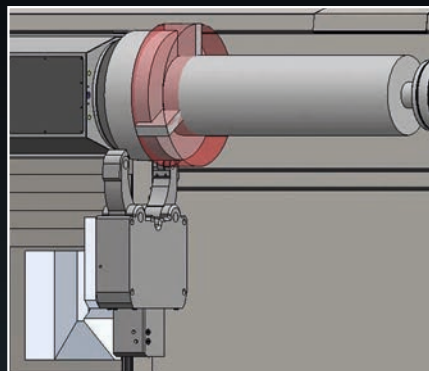
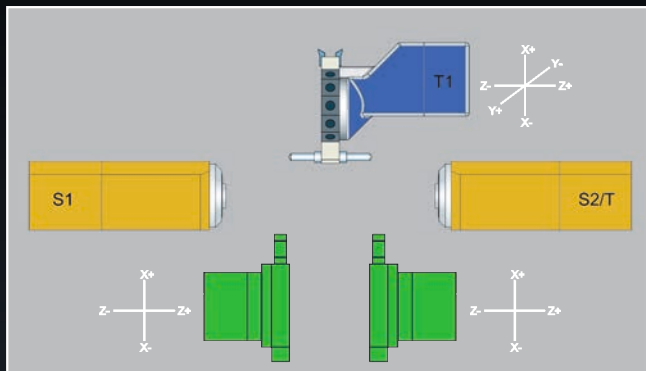


High-performance design of the machine bed

Easy removal of chips with optimally designed way cover



State-of-the-art Fanuc 0i-F Plus control with 15-inch touch screen



This universal turning center is designed with an upper turret with Y-axis and is available with a sub-spindle or tailstock. In addition, flexible steady-rests are available that can be programmed to move in two axes on a cross-slide to clamp the part securely quickly and precisely. When not in use, the steady rest is parked in a protected park position.

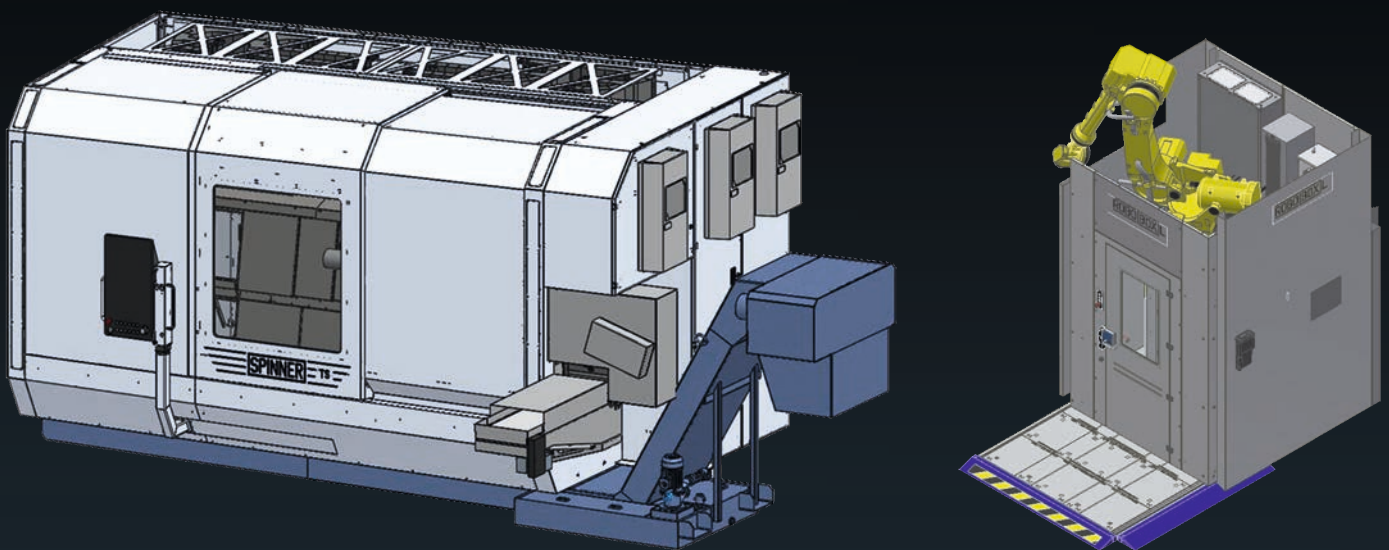
 Optional steady-rest

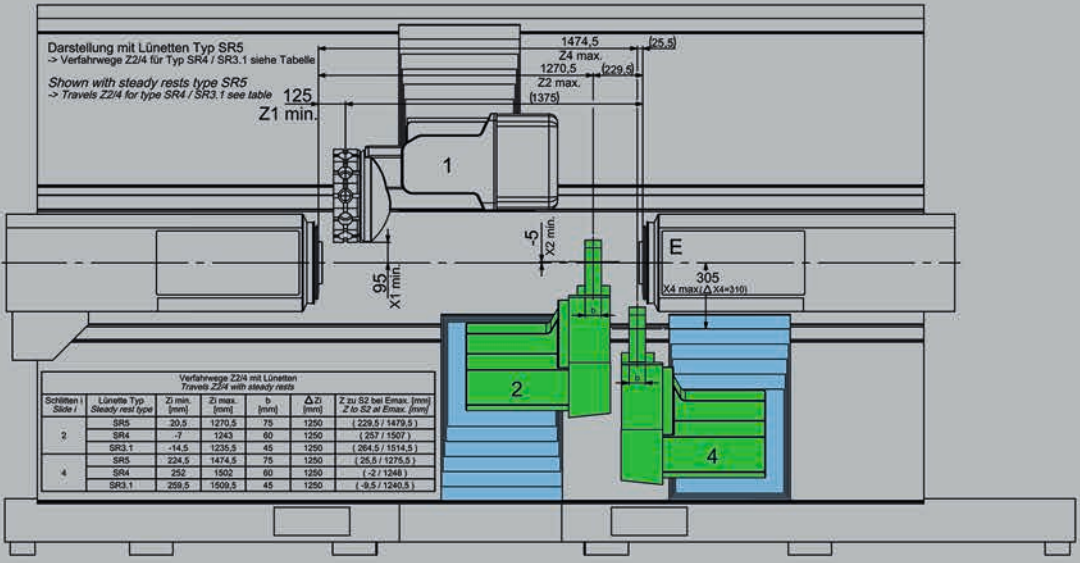
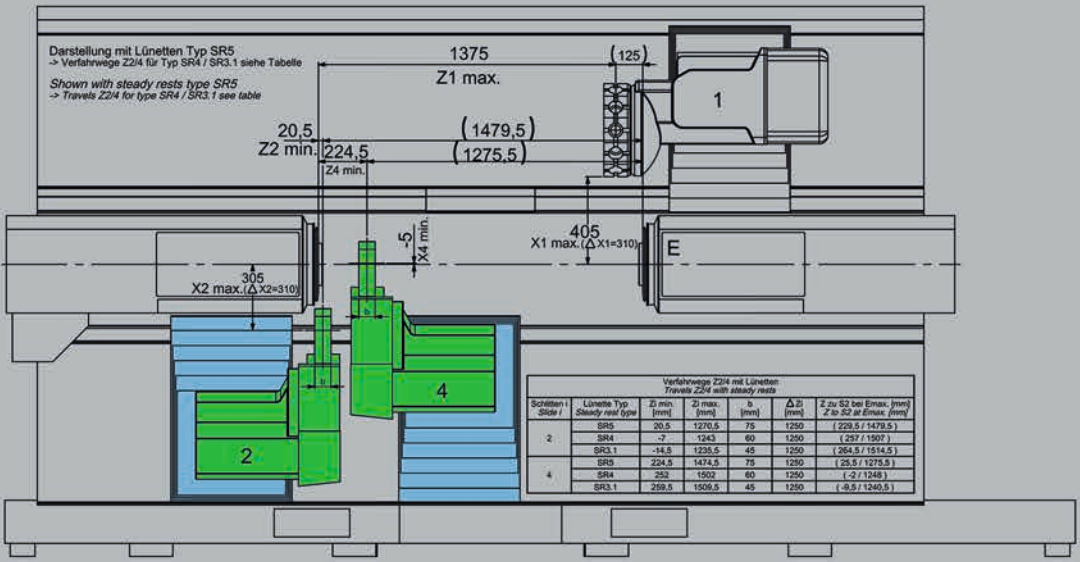
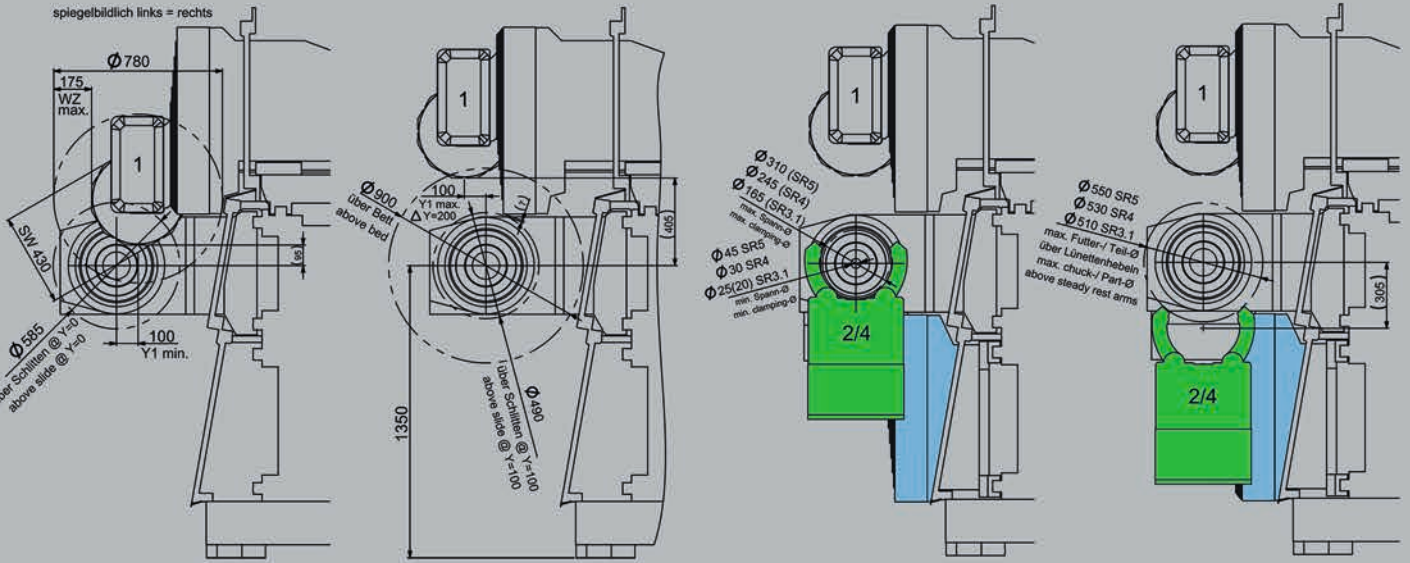
This model is also available with two powerful motor spindles and a choice of 85 mm/3.3 in or 125 mm/4.9 in bar capacity. These motor spindle options can be freely selected for the main and sub-spindles. This allows not only high-performance machining from bar stock, but also large chuck machining.

A CNC tailstock is available as an option instead of the sub-spindle.

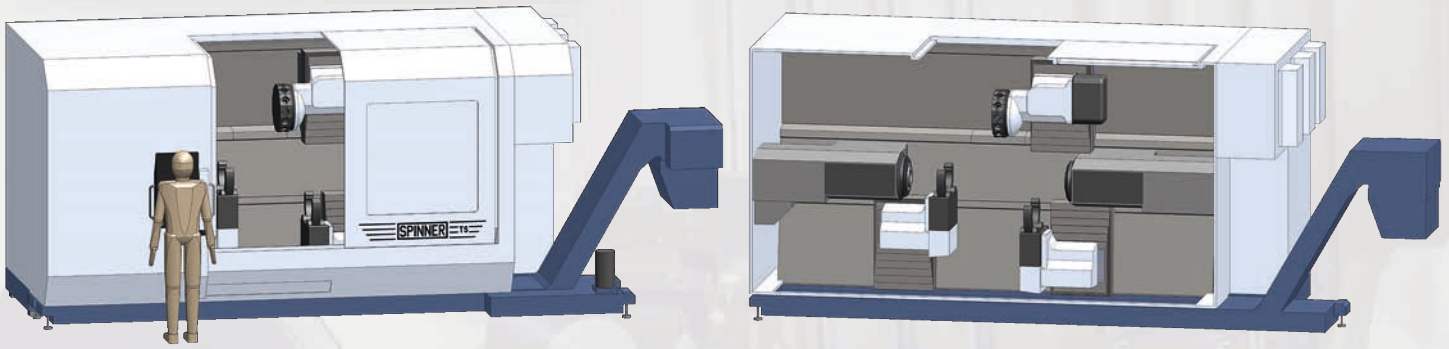


For bar machining operations, a parts catcher is available to remove the part from the sub-spindle and place it on an external part conveyor. Workpiece lengths up to 400 mm/15.7 in. In addition, automation for large chuck machining is possible via the SPINNER-RoboBox XL.

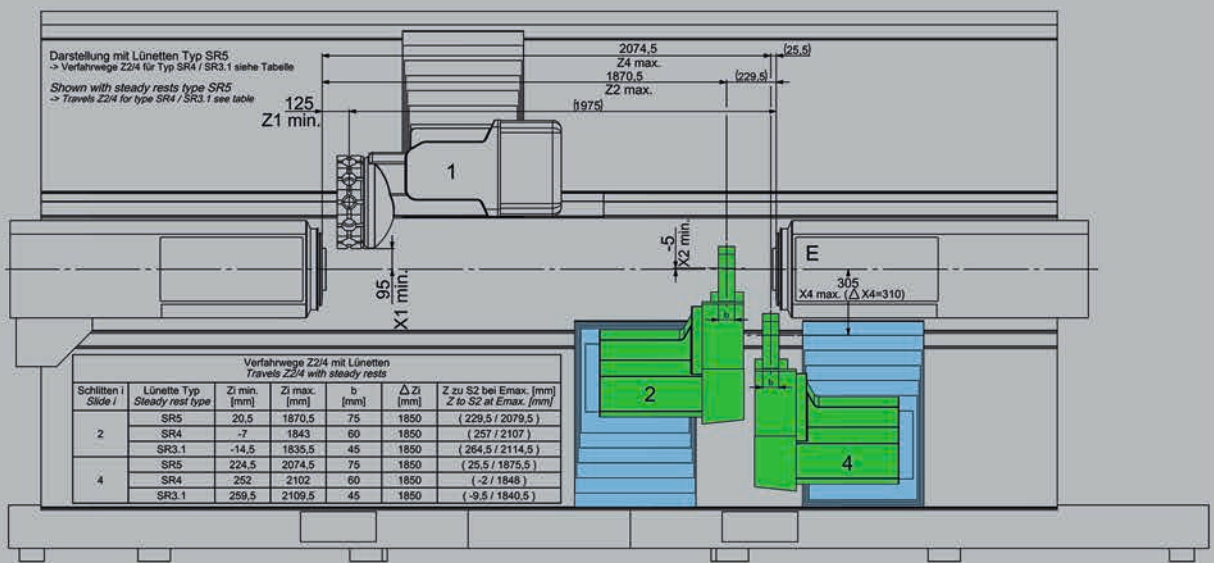
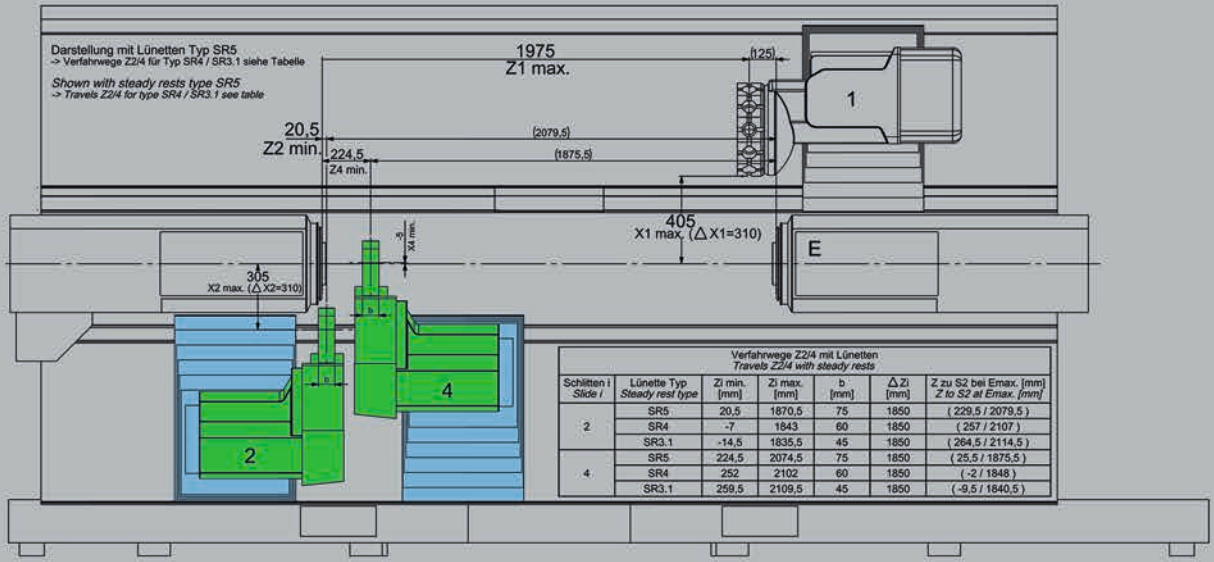
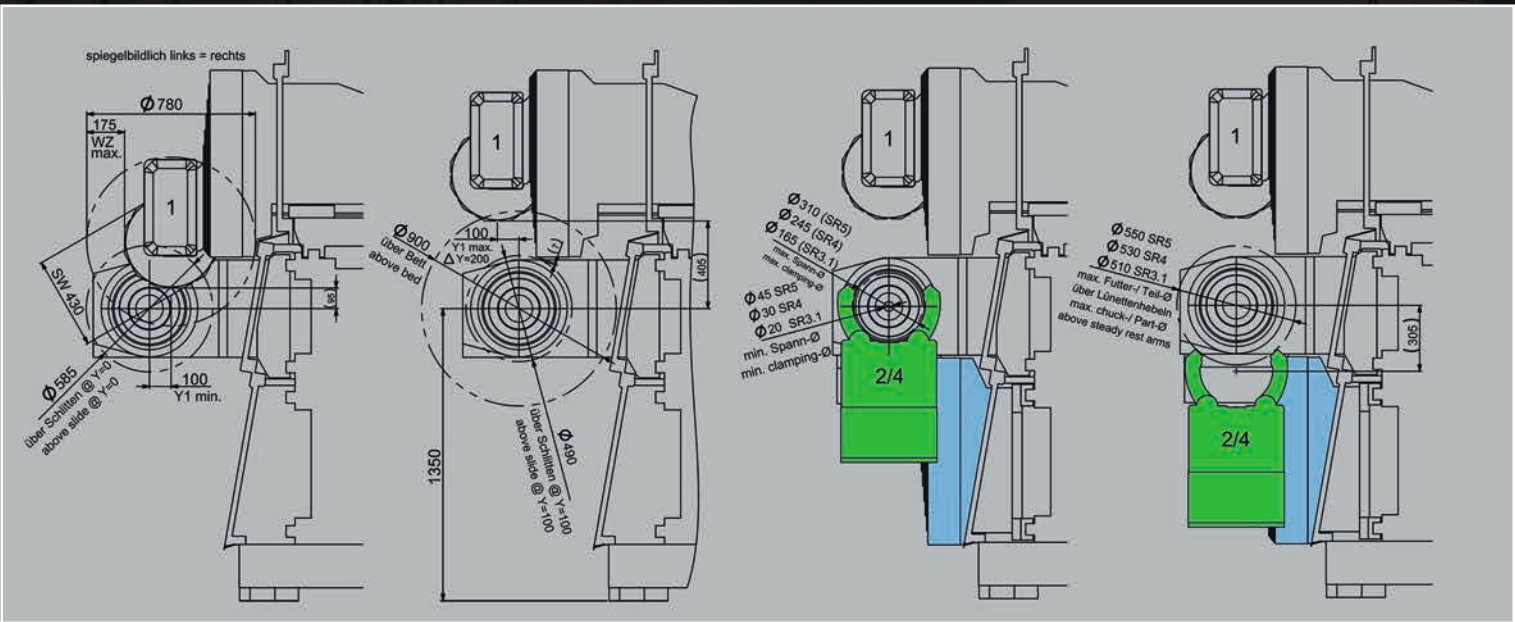




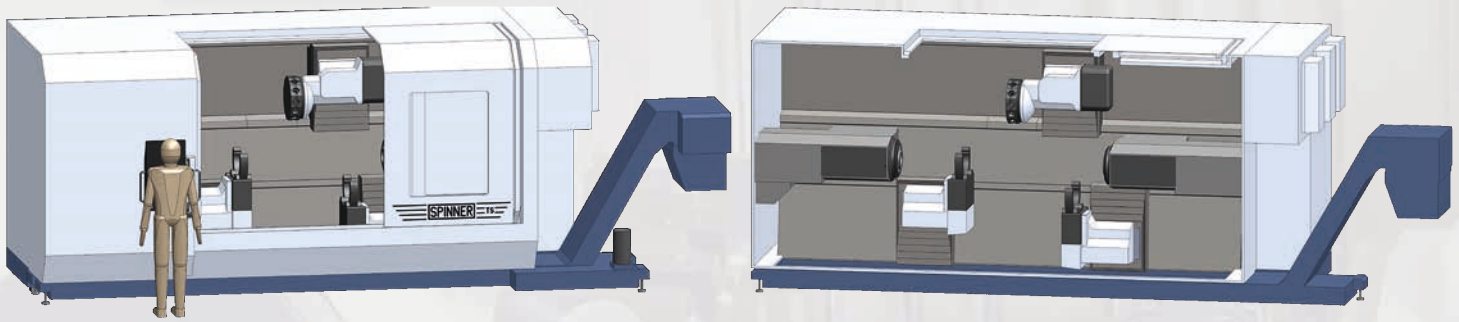
Optional steady-rest Steady-rest cross-slide



Workpiece sizes	TS850
Swing diameter over bed	900 mm (35.4 in)
Swing diameter over both slides (Y0)	585 mm (23.0 in)
Swing diameter over upper slide (Y +100)	490 mm (19.3 in)
Maximum distance between spindle noses (S1/S2)	1,500 mm (59.1 in)
Axes	
X1	310 mm (12.2 in)
Y1	+/- 100 mm (3.9 in) (= 200 mm (7.8 in))
Z1	1,250 mm (49.2 in)
Sub-spindle Tailstock	1,150 mm (45.3 in)
Spindle 85	
Max. spindle speed	3,400 rpm ; 4,000 rpm with ceramic hybrid bearings
Spindle nose	DIN 55026-A8
Spindle bore	85 mm (3.3 in)
Power (P _{max})	80 kW
Torque (M _{max})	930 Nm
Spindle 125	
Max. spindle speed	2,500 rpm
Spindle nose	DIN 55026-A11
Spindle bore	125 mm (4.9 in)
Power (P _{max})	67 kW
Torque (M _{max})	1254 Nm
Turret	
Number of tool stations; Tool holder	12 x BMT65 or 16 x BMT45
Number of driven tool stations	All
Max. speed of the driven tools	4.000 rpm / Option 8.000 rpm
Power (P _{max})	15 kW
Torque (M _{max})	82,7 Nm
Tailstock	
Tailstock taper	MK5 in tailstock body
Steady-rest	
Centering ranges	25 - 165 mm (0.9 in - 6.5 in) / 30 - 245 mm (1.2 in - 9.6 in) / 45 - 310 mm (1.8 in - 12.2 in)
General indications	
Dimensions (L x W x H)	6,380 x 2,480 x 2,560 mm (251.2 in x 97.6 in x 100.8 in)



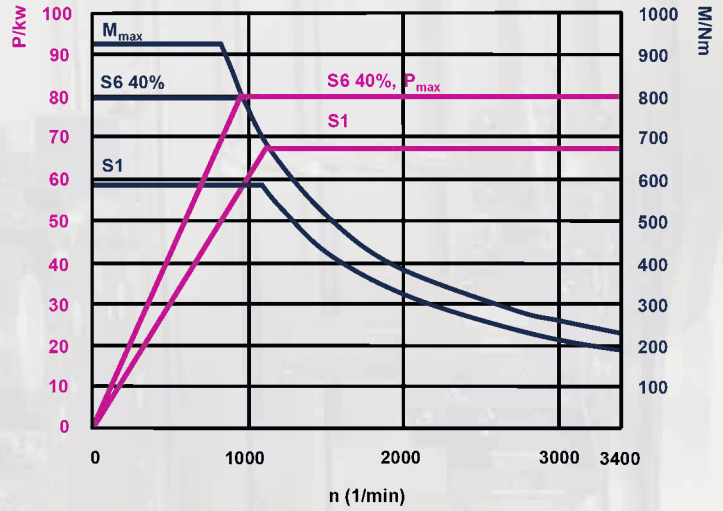
Optional steady-rest Steady-rest cross-slide



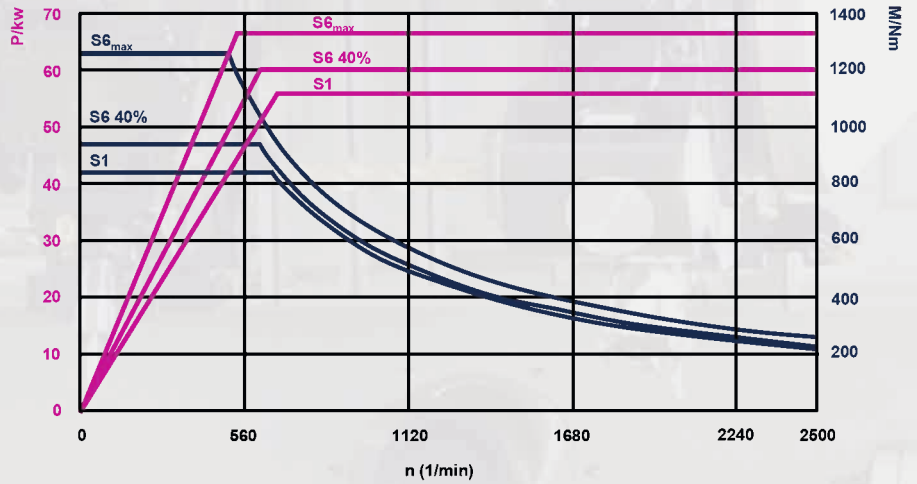
Workpiece sizes	TS850-XL
Swing diameter over bed	900 mm (35.4 in)
Swing diameter over both slides (Y0)	585 mm (23.0 in)
Swing diameter over upper slide (Y +100)	490 mm (19.3 in)
Maximum distance between spindle noses (S1/S2)	2,100 mm (82.7 in)
Axes	
X1	310 mm (12.2 in)
Y1	+/- 100 mm (3.9 in) (= 200 mm (7.8 in))
Z1	1,850 mm (72.8 in)
Sub-spindle Tailstock	1,750 mm (68.9 in)
Spindle 85	
Max. spindle speed	3,400 rpm ; 4,000 rpm with ceramic hybrid bearings
Spindle nose	DIN 55026-A8
Spindle bore	85 mm (3.3 in)
Power (P_{max})	80 kW
Torque (M_{max})	930 Nm
Spindle 125	
Max. spindle speed	2,500 rpm
Spindle nose	DIN 55026-A11
Spindle bore	125 mm (4.9 in)
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Turret	
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Number of driven tool stations	All
Max. speed of the driven tool stations	4,000 rpm / Option 8,000 rpm
Power (P_{max})	15 kW
Torque (M_{max})	82,7 Nm
Tailstock	
Tailstock taper	MK5 in tailstock body
Steady-rest	
Centering ranges	25 - 165 mm (0.9 in - 6.5 in) / 30 - 245 mm (1.2 in - 9.6 in) / 45 - 310 mm (1.8 in - 12.2 in)
General indications	
Dimensions (L x W x H)	6,980 x 2,480 x 2,560 mm (274.80 in x 97.6 in x 100.8 in)

The TS850 and TS850-XL model comes with 3,400 rpm spindles with 85 mm/3.3 in bar capacity on the main spindle or sub-spindle

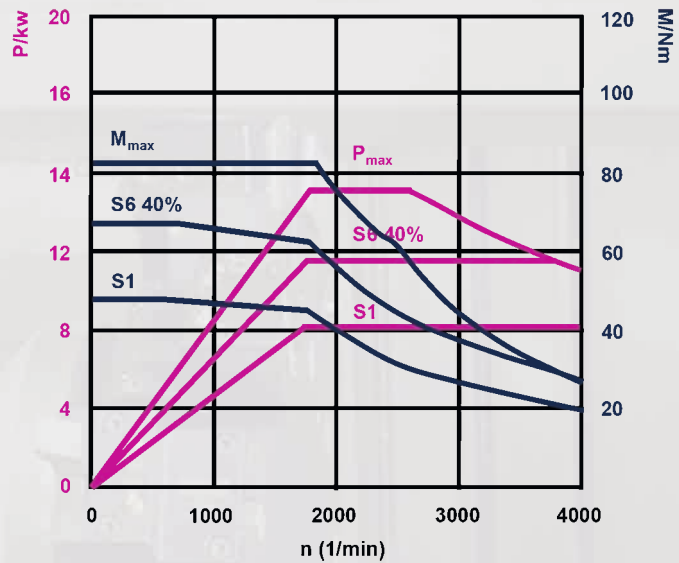
Optionally, these spindles can be upgraded to ceramic hybrid bearings and increased spindle speeds to 4,000 rpm



The TS850 and TS850-XL model comes also with 2,500 rpm spindles with 125 mm/4.9 in bar capacity on the main spindle or sub-spindle



Driven tool

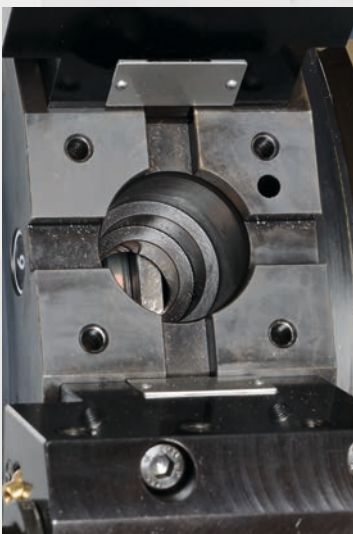


Tool holder BMT as standard

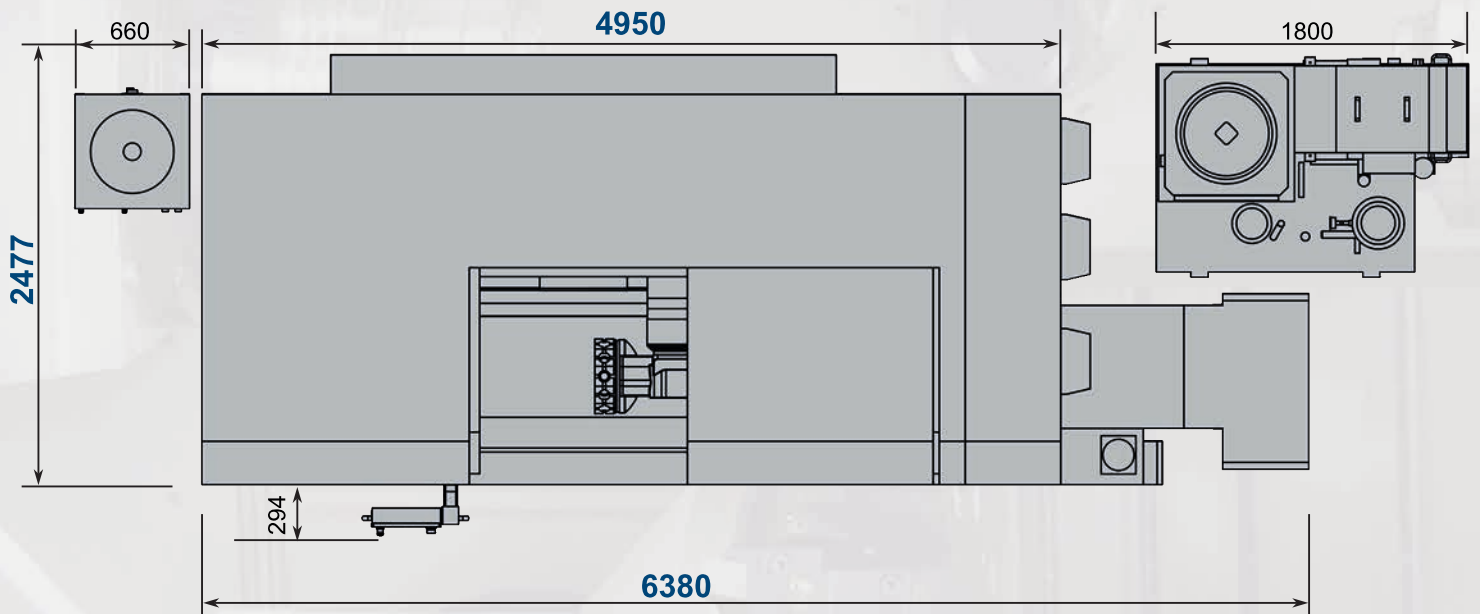
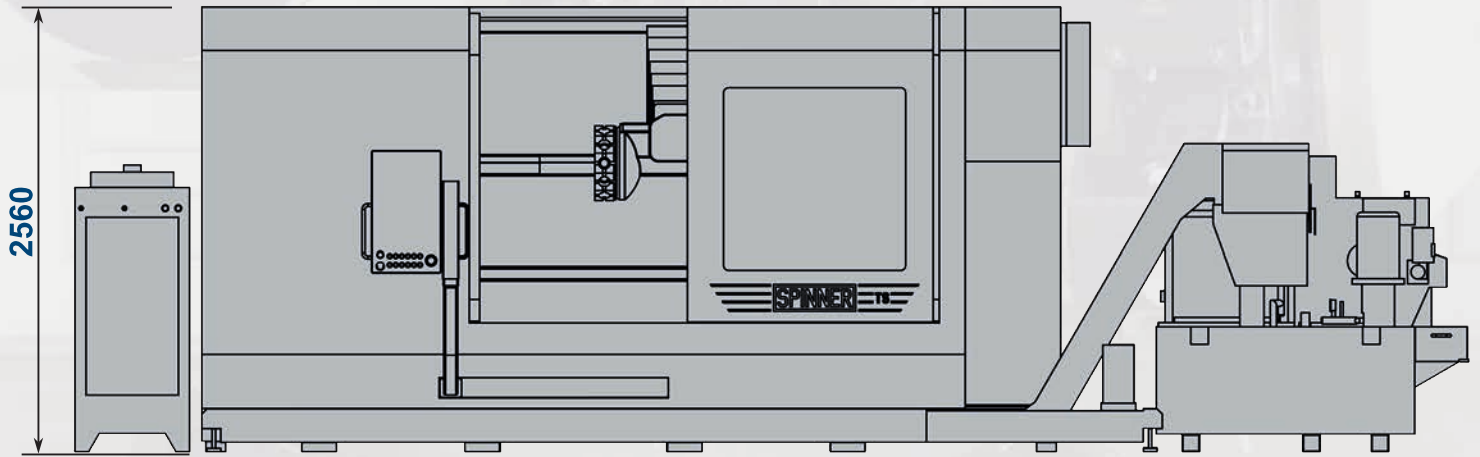
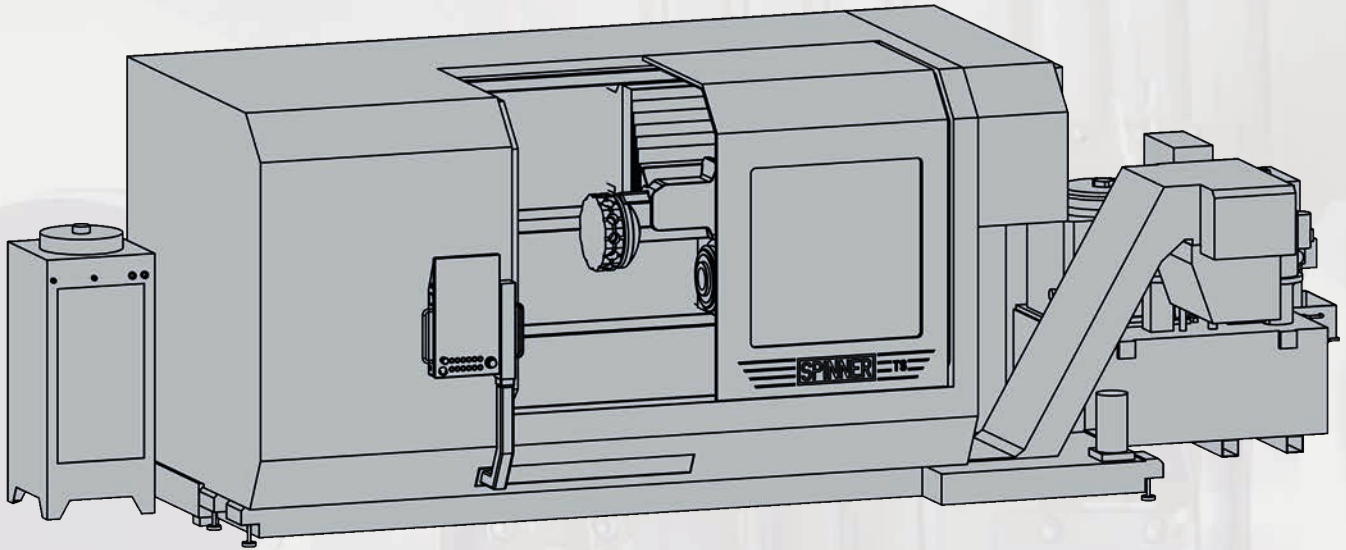
The high precision SPINNER built BMT style turret is available with a 12-station BMT65 or 16-station BMT45 configuration

Your advantages at one glance

- ✔ High tool holder exchange precision
- ✔ No adjustment is required
- ✔ High stiffness
- ✔ Higher turning and milling performance



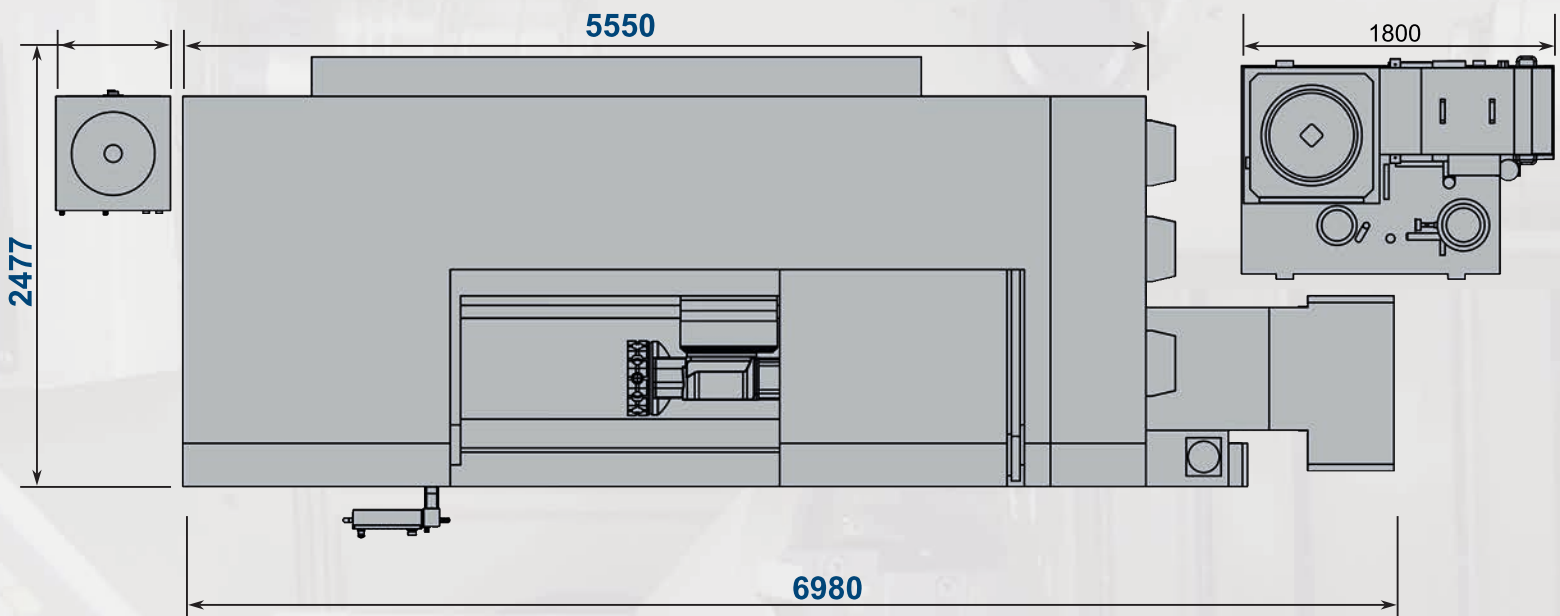
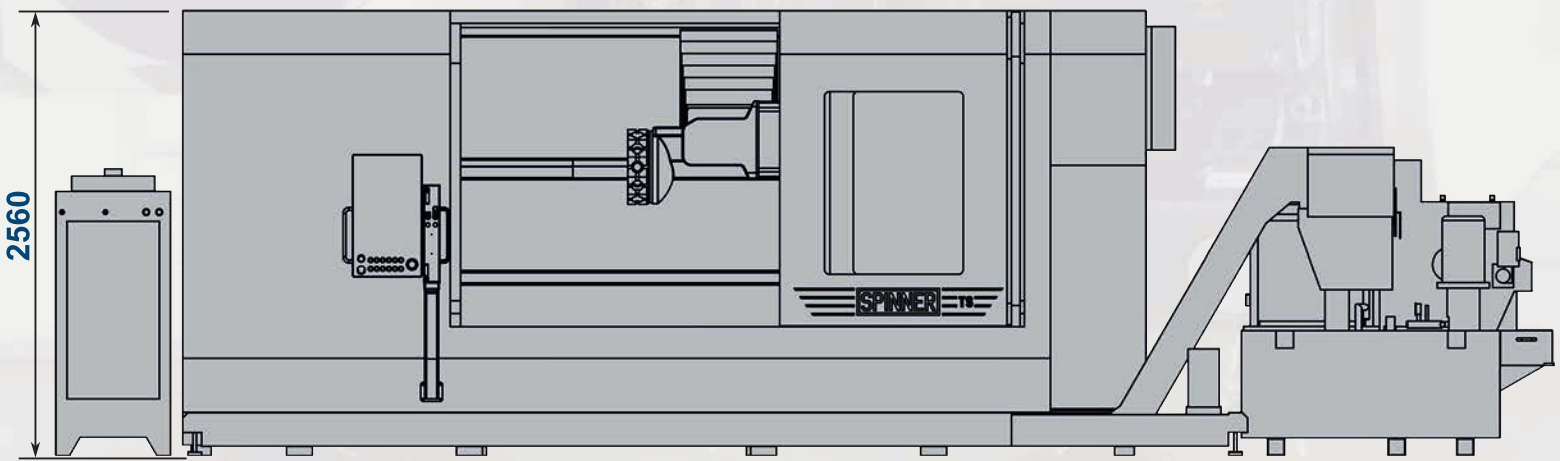
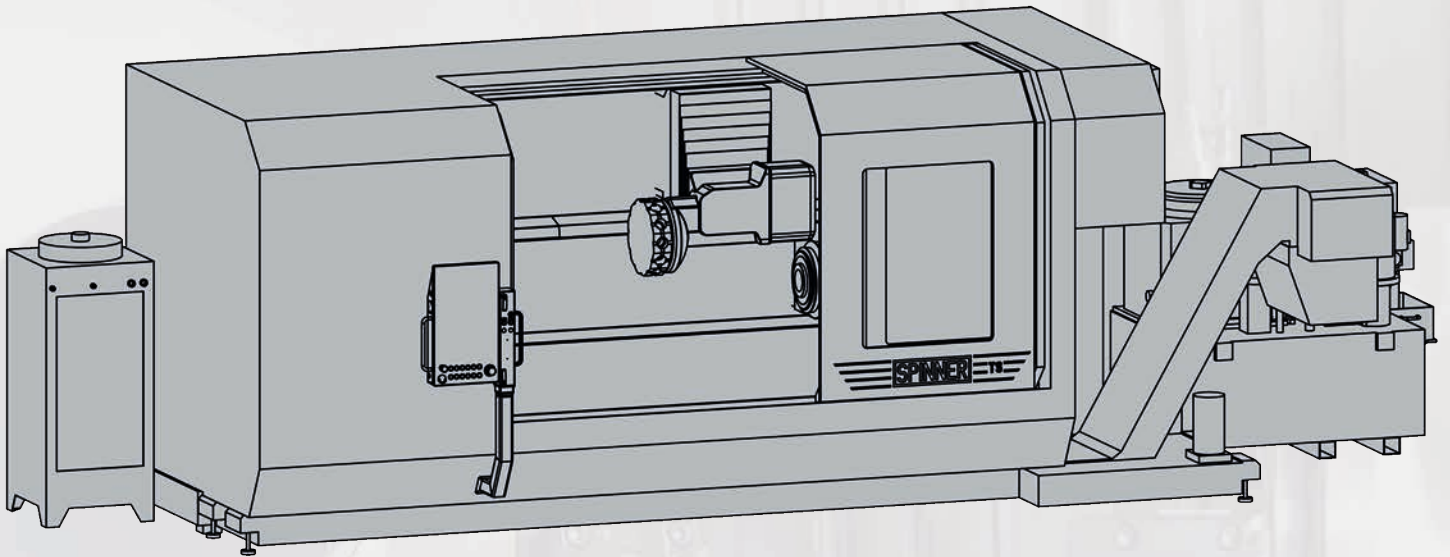
TS850



Shown with optional coolant system 80 bar and coolant temperature control
Further variants on request

All dimensions in mm

TS850-XL



Shown with optional coolant system 80 bar and coolant temperature control
 Further variants on request

All dimensions in mm



Werkzeugmaschinenfabrik GmbH



www.spinner.eu.com

Spinner Machine-Tools are working successfully world wide with many well known clients in more than 60 countries on 6 continents. We have been fortunate enough to attract small component suppliers in addition to well known global groups in all metal machining industries.

We have designed and produced the most modern machine-tools since 1950. More than 20.000 delivered machines demonstrate their high efficiency, precision and reliability, everyday.

Although Spinner is a medium-sized enterprise we produce and sell more than 1.000 CNC machines a year. And the number is increasing every year. Our company combines the know-how of a global player with the flexibility and cost-effective structures of a family owned business.

Place your trust in our products as well and let us know what we can do for you.



Video

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Technical changes of specifications and pictures are subject to change without notice - Pictures can include options, accessories