SPINNER

TTS 85 / TTS 125

NEU
NEW

High performance turning centre

For large workpieces - Up to 4 turrets

Mechanical Engineering

Made in Germany

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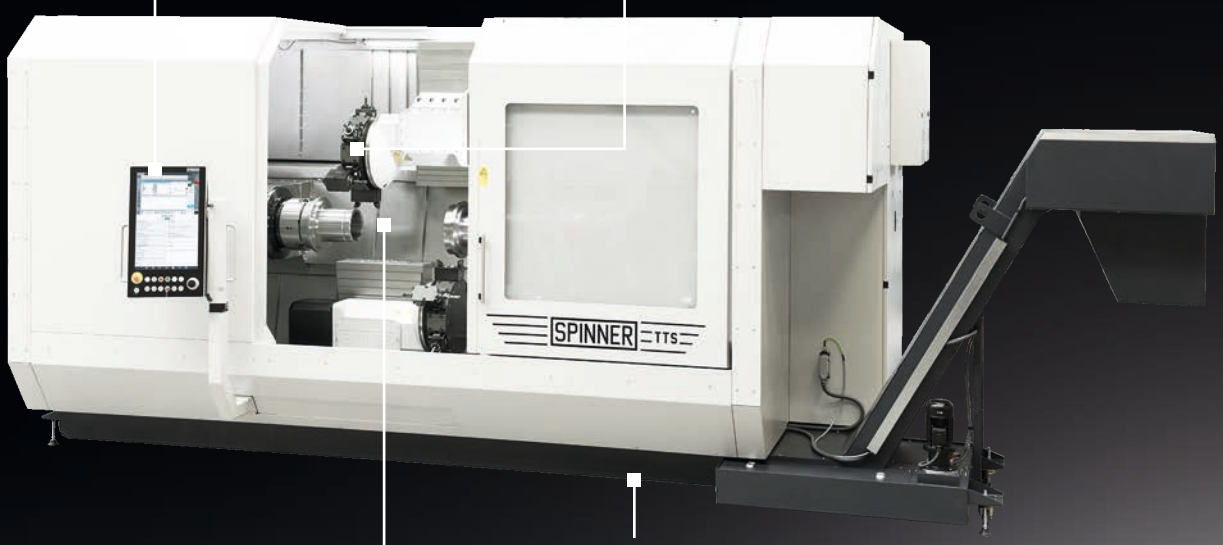
sales@spinner.eu.com

Machine Highlights

Our newly developed and enlarged TTS 85-125 series has a modular design and can be equipped with up to 4 turrets.

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

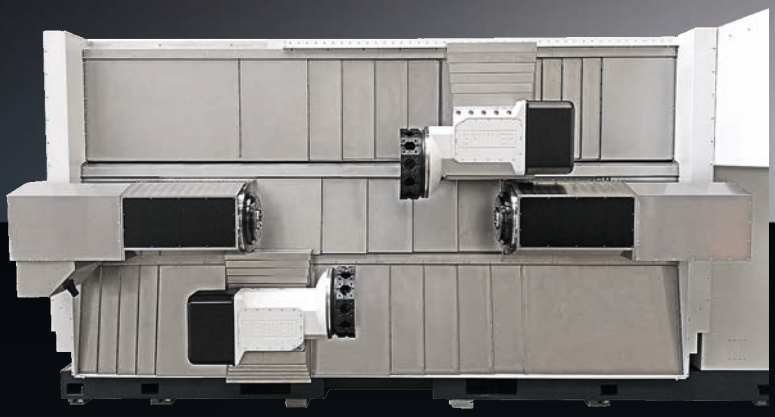
Up to 2 Y-axes arranged at the top of the working area



Easy removal of chips with optimally designed guide cover

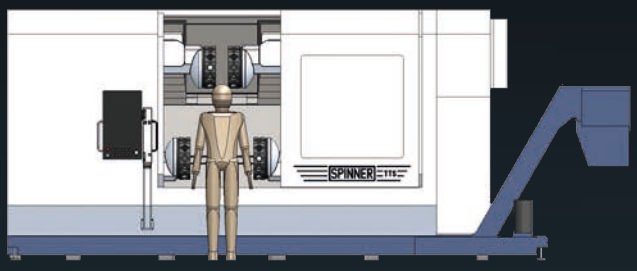
High-performance design of the machine bed

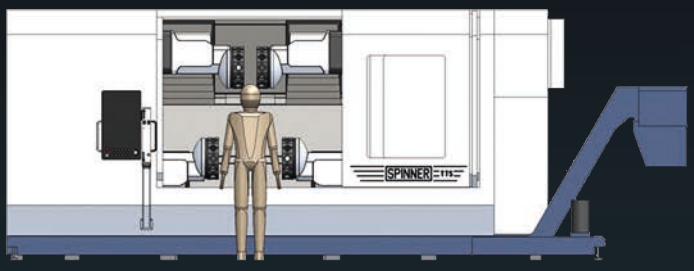
The series is alternatively available with two powerful motor spindles up to either 85 mm or 125 mm bar capacity. These motor spindles can be freely selected for the main and sub-spindles. This allows not only high-performance machining from bar stock, but also large chuck machining up to approx. D=500mm, even simultaneously.



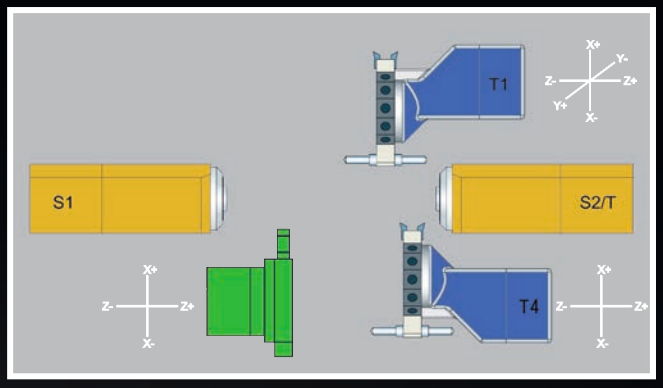
In addition, flexibly utilizable steady-rests are possible, each optionally movable in two CNC axes on a cross-slide, in order to be brought quickly and precisely from a protected park position to the usage position.

The robust servo indexing turrets are available with 12 or 16 positions. BMT45 or BMT65 tool holders are used for maximum changeover accuracy and cutting performance. All essential components, such as motor spindles, turrets as well as the entire machine mechanics, are manufactured in our factory in Sauerlach near Munich.



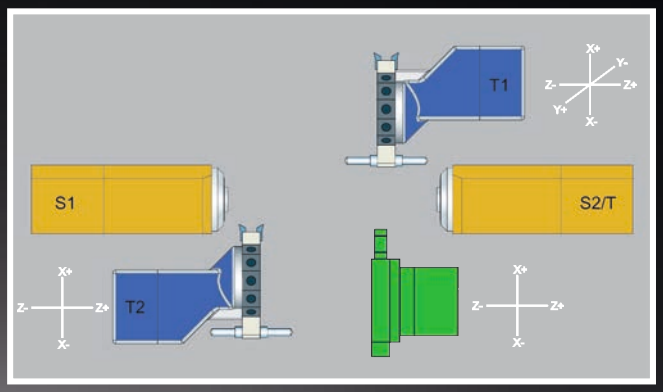


There is also a choice of two bed lengths with normal and extended Z-stroke.



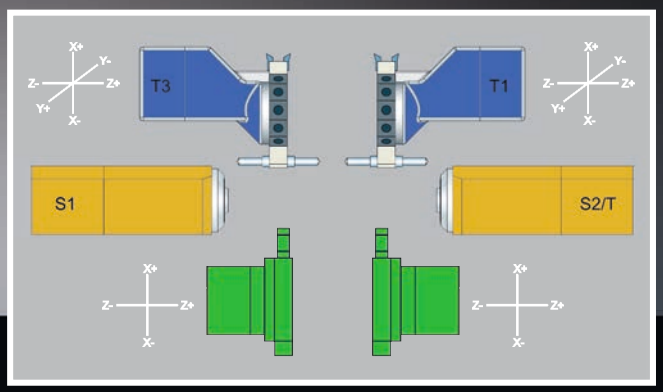
TTS-Duo:

Classic design with two turrets located at the top right and bottom right in the working area with live tools. Both turrets can be used on the main spindle as well as on the sub-spindle. The turret on top in the working area has a Y-axis. A steady-rest on the lower cross-slide is optionally available.



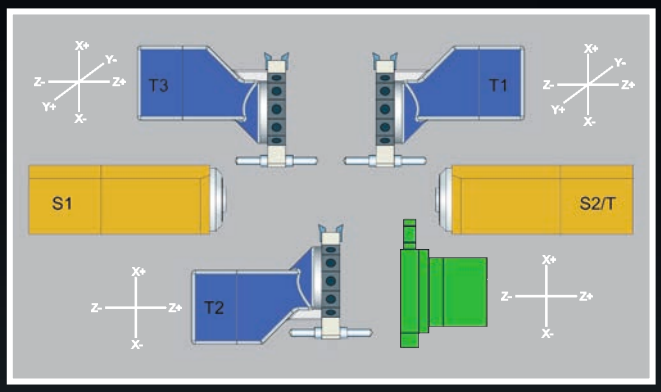
TTS-Duplex:

Classic design with two turrets located at the top right and bottom left in the working area with live tools. Both turrets can be used on the main spindle as well as on the sub-spindle. The turret on top in the working area has a Y-axis. A steady-rest on the lower cross-slide is optionally available.



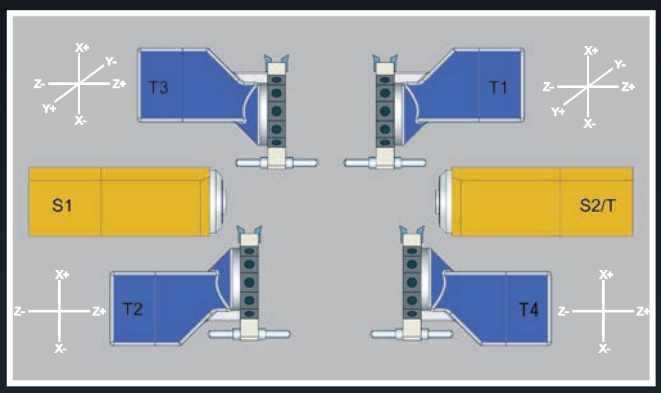
TTS-Twin:

Double productivity with two turrets located at the top in the working area with live tools and Y-axis. Optimum chip removal due to chips falling straight downward. Expandable with up to two steady-rests on the lower cross-slide for undulating-shaped or shaft-type workpieces.



TTS-Triplex:

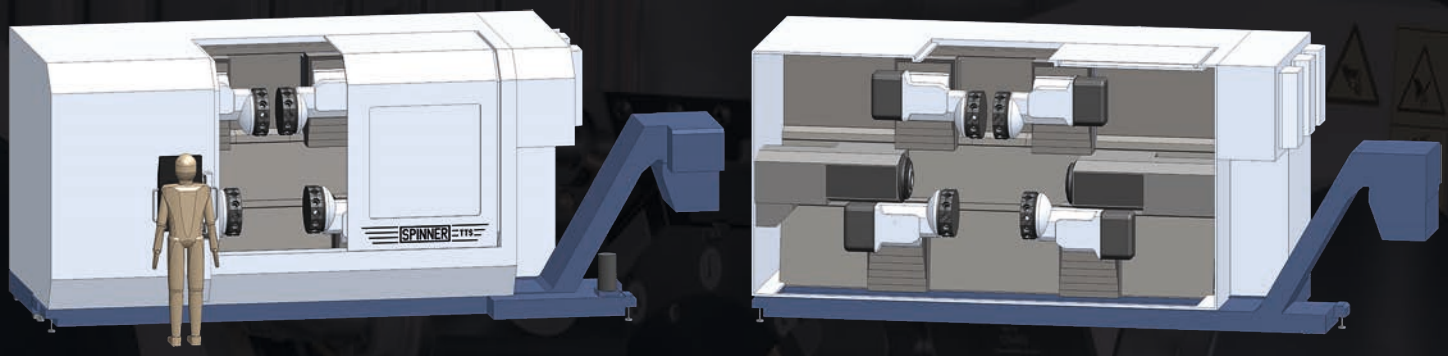
High productivity due to 3 simultaneously operating turrets and a high number of quickly available live tools. All turrets can be used on the main spindle as well as on the sub-spindle. Each of the 2 turrets located at the top of the working area is equipped with a Y-axes. A steady-rest on the lower cross-slide is optionally available.

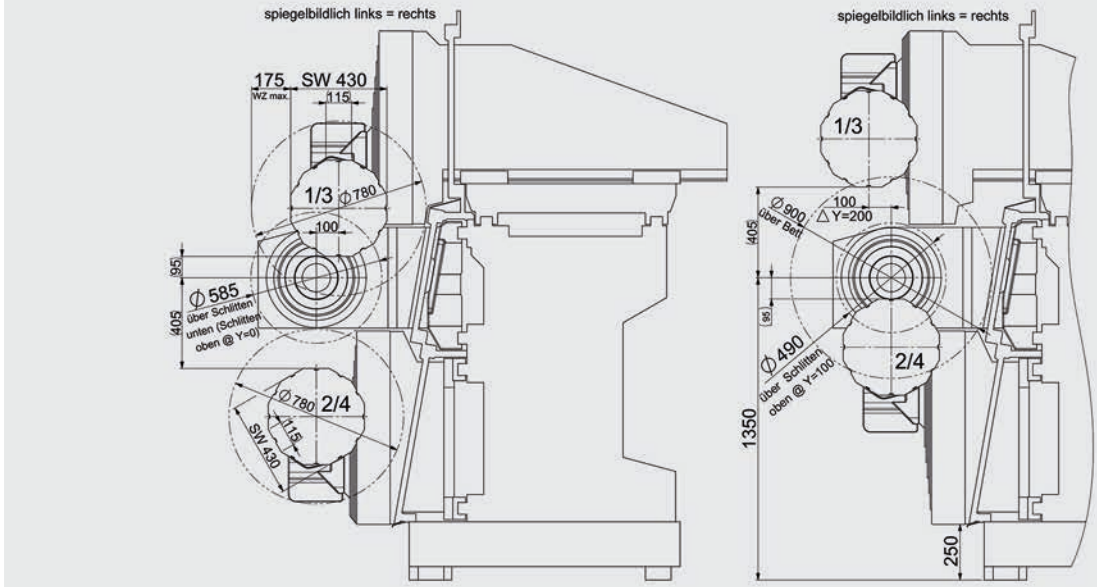


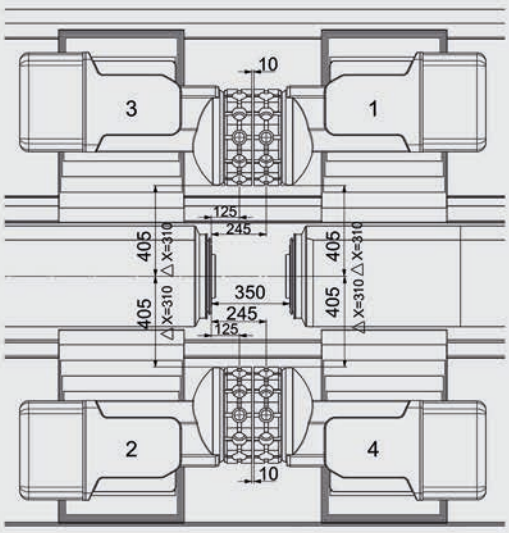
TTS-Quadrex:

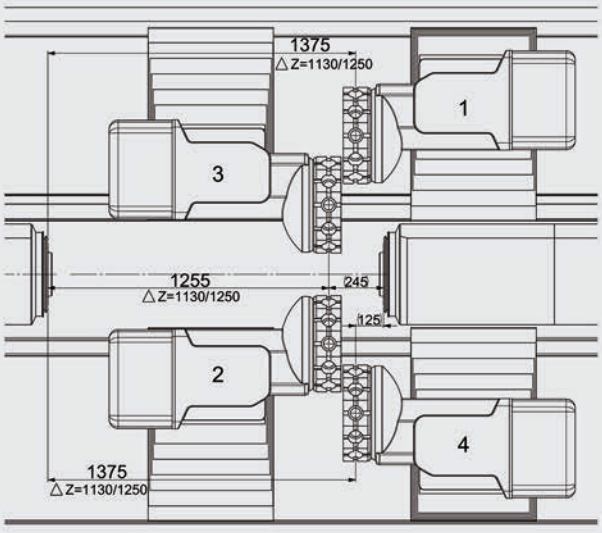
Top model with four simultaneously operating turrets for high productivity in both bar and chuck machining.

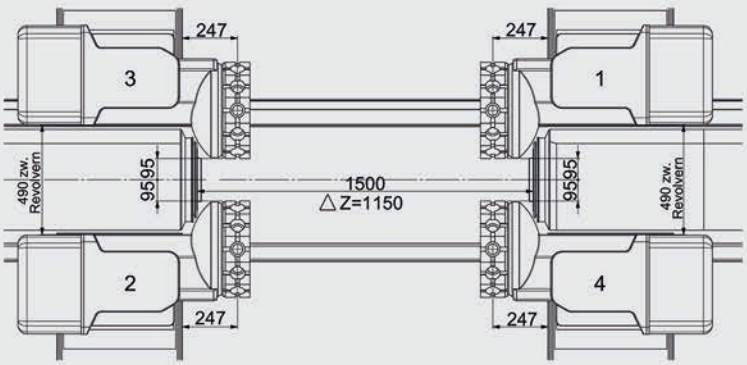
Optional steady rest





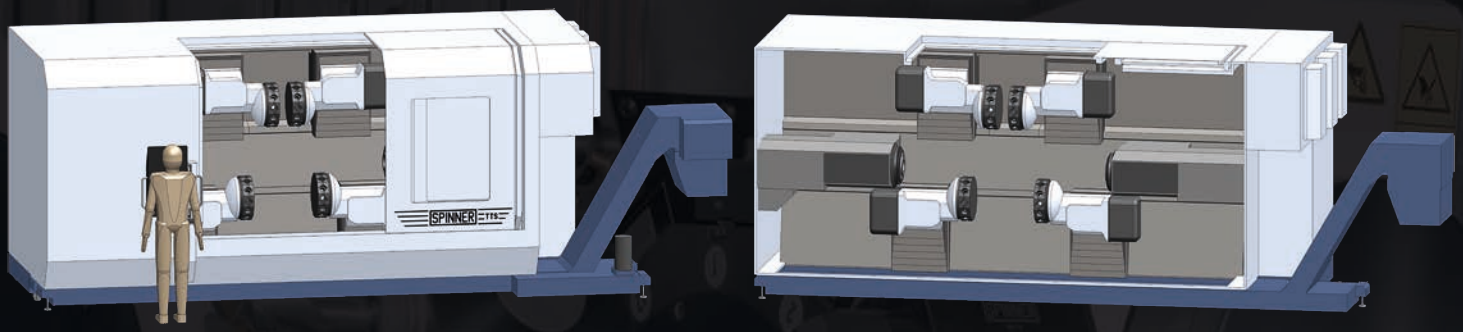


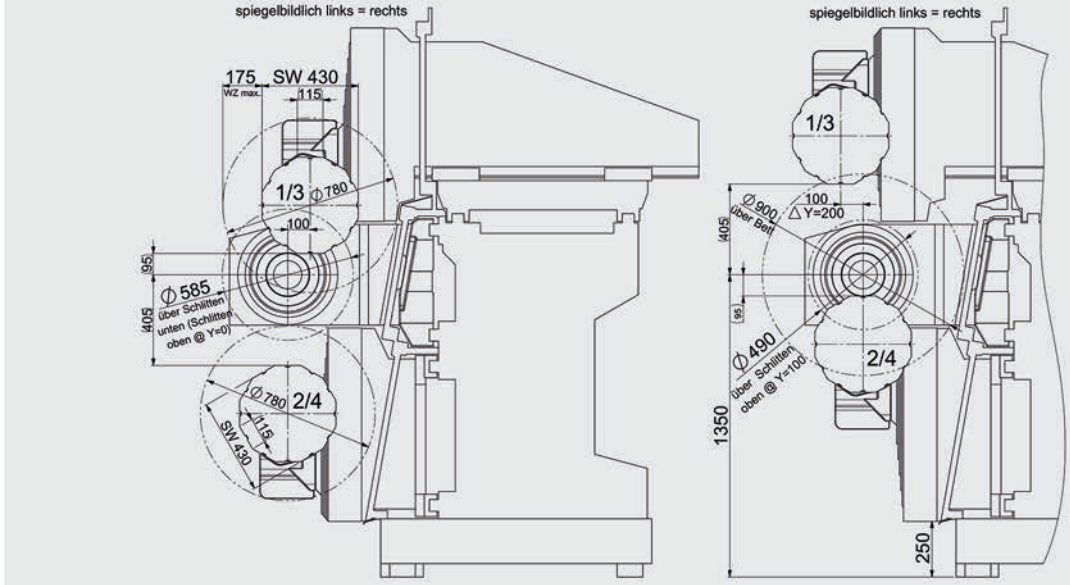


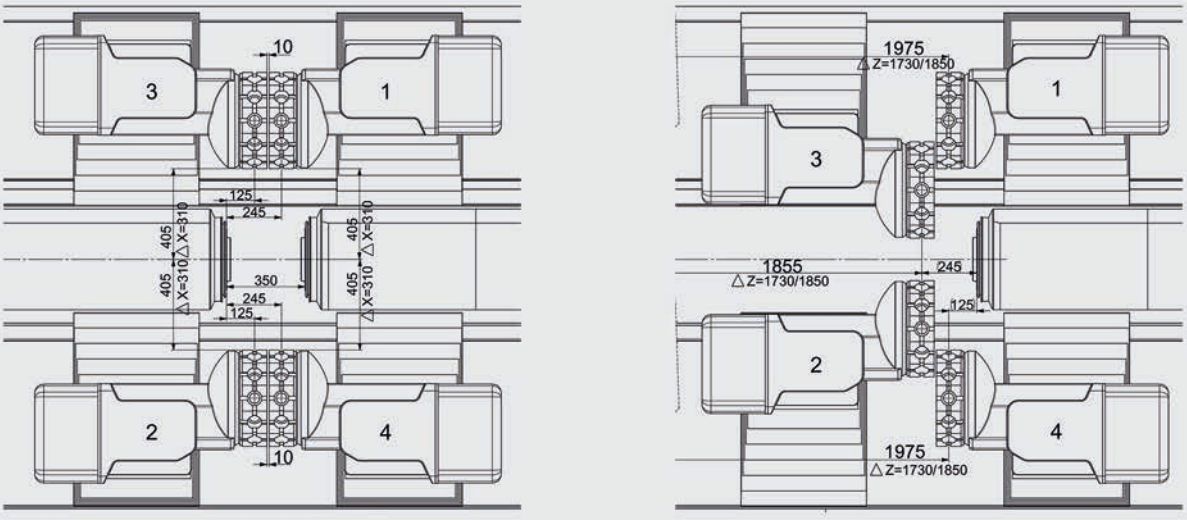


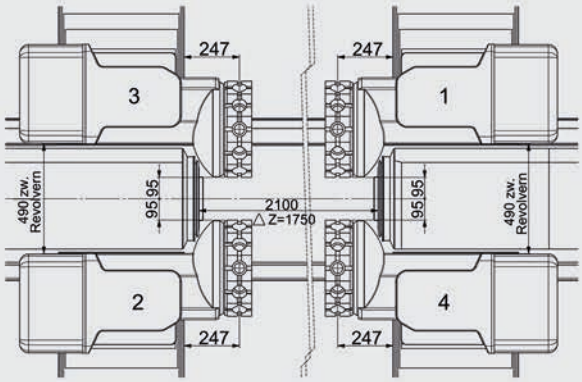
All dimensions in mm

Workpiece sizes	TTS-Duo	TTS-Duplex	TTS-Twin	TTS-Triplex	TTS-Quadrex
Swing diameter over bed	900 mm (35.4")	900 mm (35.4")	900 mm (35.4")	900 mm (35.4")	900 mm (35.4")
Swing diameter over both slides (Y0)	585 mm (23.0")	585 mm (23.0")	585 mm (23.0")	585 mm (23.0")	585 mm (23.0")
Swing diameter over upper slide (Y +100)	490 mm (19.3")	490 mm (19.3")	490 mm (19.3")	490 mm (19.3")	490 mm (19.3")
Maximum distance between spindle noses (S1/S2)	1,500 mm (59.1")	1,500 mm (59.1")	1,500 mm (59.1")	1,500 mm (59.1")	1,500 mm (59.1")
Axes					
X1	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")
X2	-	310 mm (12.2")	-	310 mm (12.2")	310 mm (12.2")
X3	-	-	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")
X4	310 mm (12.2")	-	-	-	310 mm (12.2")
Z1	1,250 mm (49.2")	1,250 mm (49.2")	1,130 mm (44.5")	1,130 mm (44.5")	1,130 mm (44.5")
Z2	-	1,250 mm (49.2")	-	1,250 mm (49.2")	1,130 mm (44.5")
Z3	-	-	1,130 mm (44.5")	1,130 mm (44.5")	1,130 mm (44.5")
Z4	1,130 mm (44.5")	-	-	-	1,130 mm (44.5")
Y1	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))
Y3	-	-	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))
Sub spindle Tailstock	1,150 mm (45.3")				
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")				
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")				
Power (P_{max})	67 kW				
Torque (M_{max})	1254 Nm				
Turret 1-4					
Number of tool stations; Tool holder	16 x BMT45 / Option 12 x BMT65				
Number of driven tool stations	All				
Max. speed of the driven tools	4,000 rpm / Option 8,000 rpm				
Performance (P_{max})	15 kW				
Torque (M_{max})	82,7 Nm				
Tailstock					
Tailstock taper	MK4 in tailstock body				
Steady rest					
Centering ranges	25 - 165 mm (0.9" - 6.5") / 30 - 245 mm (1.2" - 9.6") / 45 - 310 mm (1.8" - 12.2")				
General indications					
Dimensions (L x W x H)	6,380 x 2,480 x 2,560 mm (251.2" x 97.6" x 100.8")				









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Swing diameter over upper slide (Y +100)	490 mm (19.3")	490 mm (19.3")	490 mm (19.3")	490 mm (19.3")	490 mm (19.3")
Maximum distance between spindle noses (S1/S2)	2,100 mm (82.7")	2,100 mm (82.7")	2,100 mm (82.7")	2,100 mm (82.7")	2,100 mm (82.7")
Axes					
X1	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")
X2	-	310 mm (12.2")	-	310 mm (12.2")	310 mm (12.2")
X3	-	-	310 mm (12.2")	310 mm (12.2")	310 mm (12.2")
X4	310 mm (12.2")	-	-	-	310 mm (12.2")
Z1	1,850 mm (72.8")	1,850 mm (72.8")	1,730 mm (68.1")	1,730 mm (68.1")	1,730 mm (68.1")
Z2	-	1,850 mm (72.8")	-	1,850 mm (72.8")	1,730 mm (68.1")
Z3	-	-	1,730 mm (68.1")	1,730 mm (68.1")	1,730 mm (68.1")
Z4	1,730 mm (68.1")	-	-	-	1,730 mm (68.1")
Y1	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))
Y3	-	-	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))	+/- 100 mm (3.9") (= 200 mm (7.8"))
Sub spindle Tailstock	1,750 mm (68.9")				
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")				
Power (P_{max})	80 kW				
Torque (M_{max})	930 Nm				
Spindle 125					
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Spindle nose	DIN 55026-A11				
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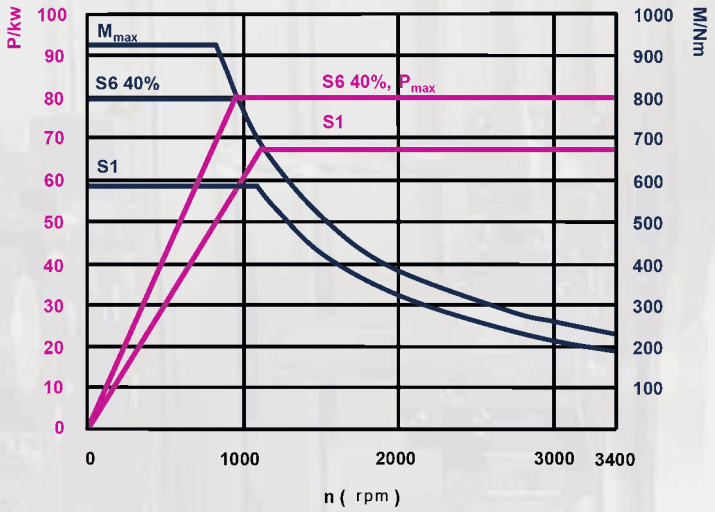
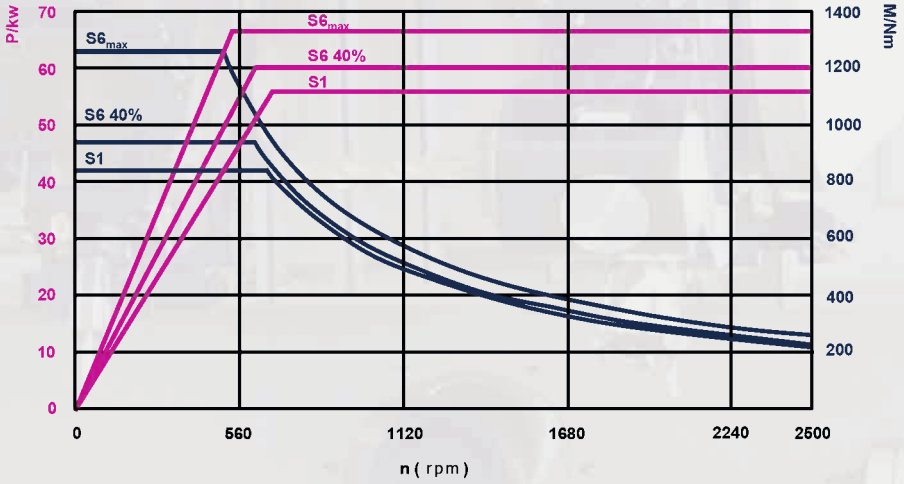
Number of tool stations; Tool holder	16 x BMT45 / Option 12 x BMT65				
Number of driven tool stations	All				
Max. speed of the driven tools	4,000 rpm / Option 8,000 rpm				
Performance (P_{max})	15 kW				
Torque (M_{max})	82,7 Nm				
Tailstock					
Tailstock taper	MK4 in tailstock body				
Steady rest					
Centering ranges	25 - 165 mm (0.9" - 6.5") / 30 - 245 mm (1.2" - 9.6") / 45 - 310 mm (1.8" - 12.2")				
General indications					
Dimensions (L x W x H)	6,980 x 2,480 x 2,560 mm (274.80" x 97.6" x 100.8")				

Spindle 85 mm (3.3"), 3,400 rpm as main spindle or as sub spindle for all machines of the series TTS 85-125

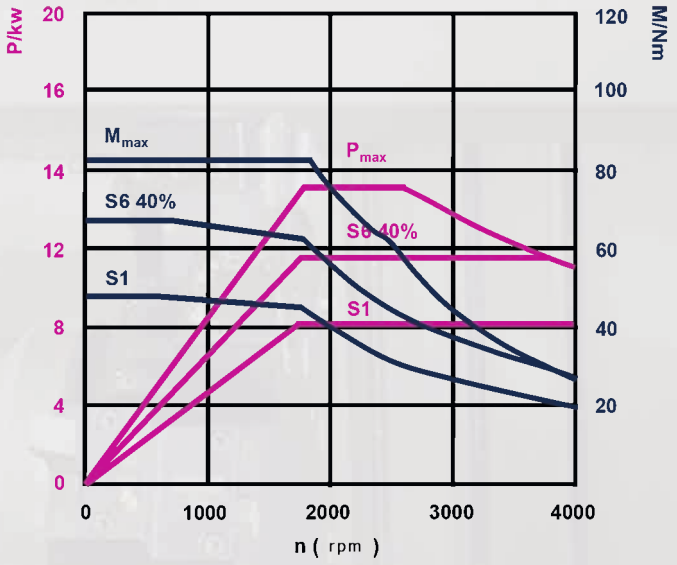
Optionally increased speed range up to 4,000 rpm via ceramic hybrid bearings



Spindle 125 mm (4.9"), 2,500 rpm as main spindle or as sub spindle for all machines of the series TTS 85-125



Driven tool

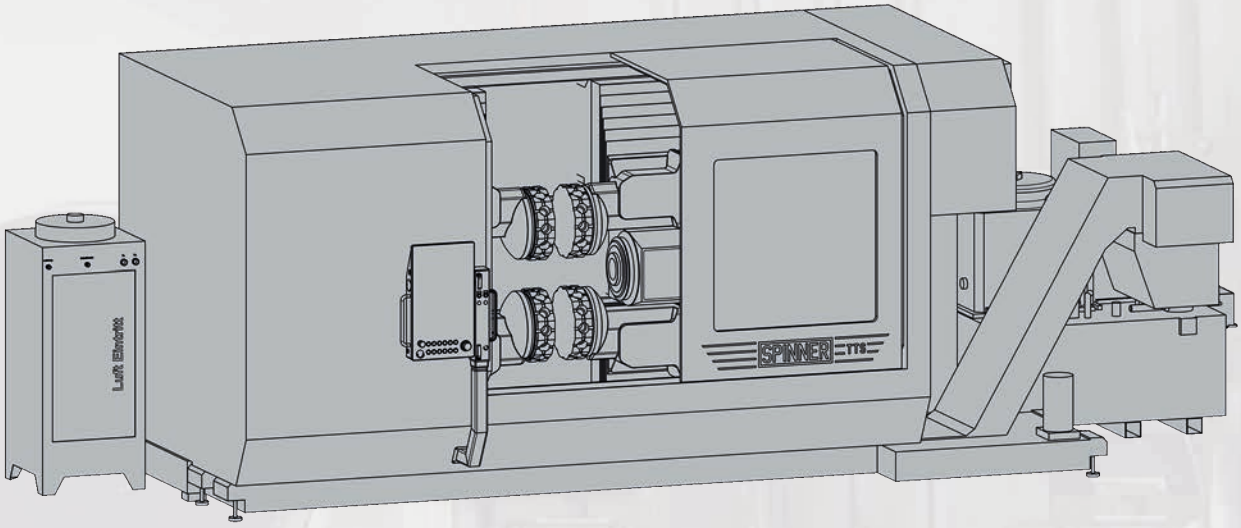


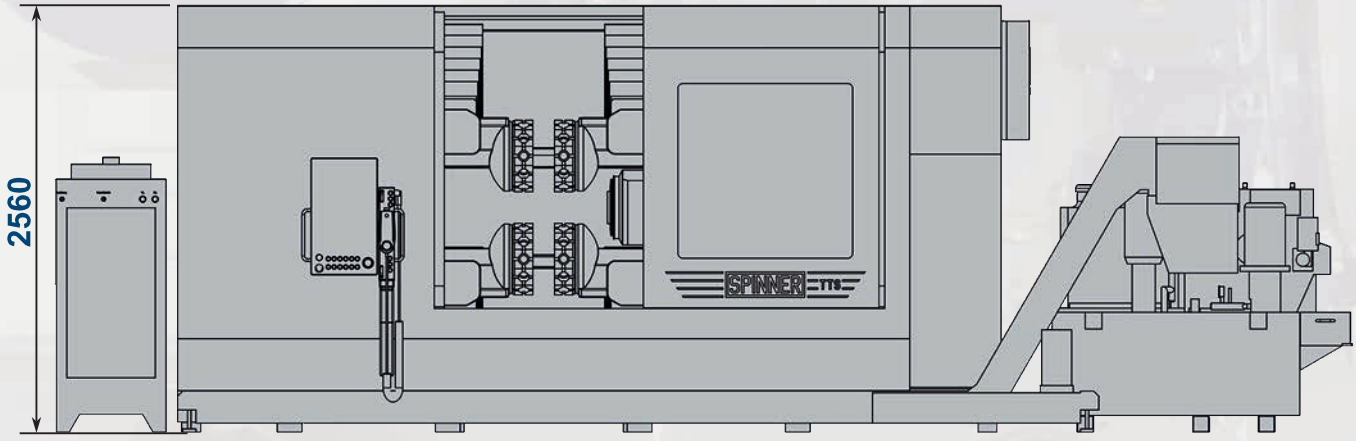
Tool holder BMT as standard

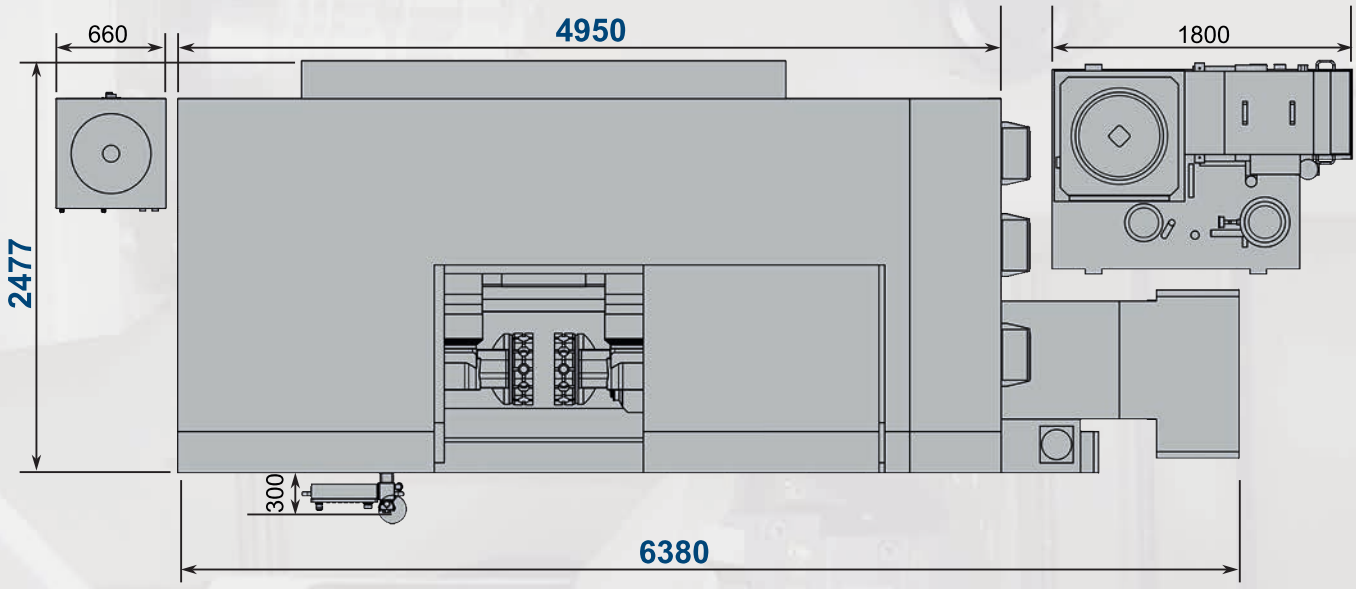
Your advantages at one glance

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

TTS 85-125 Short bed version



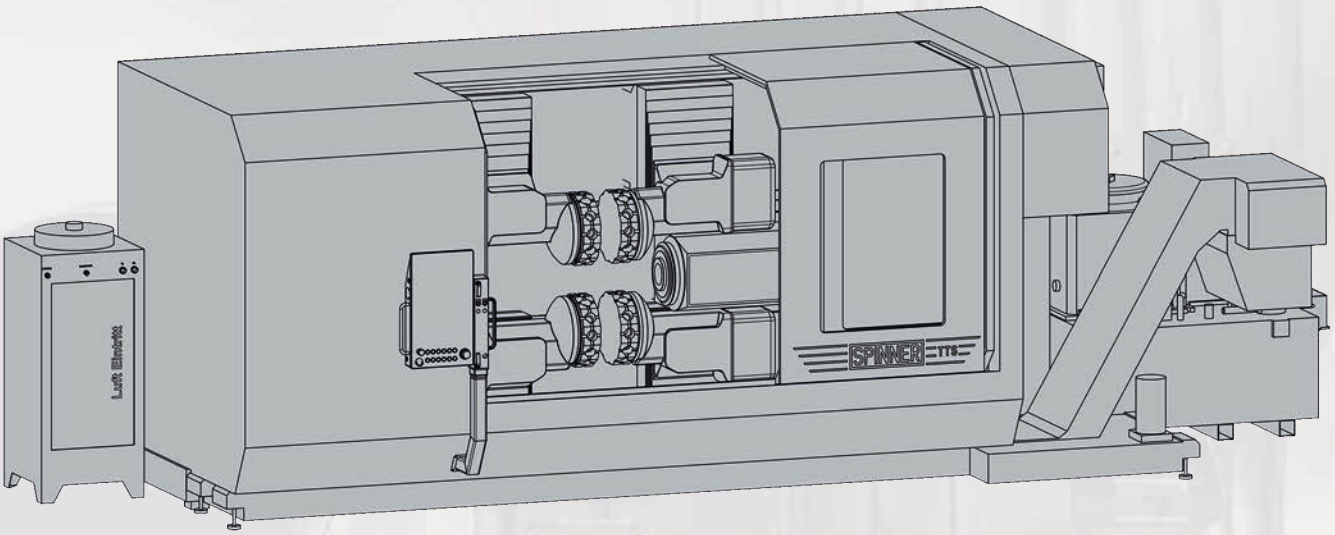


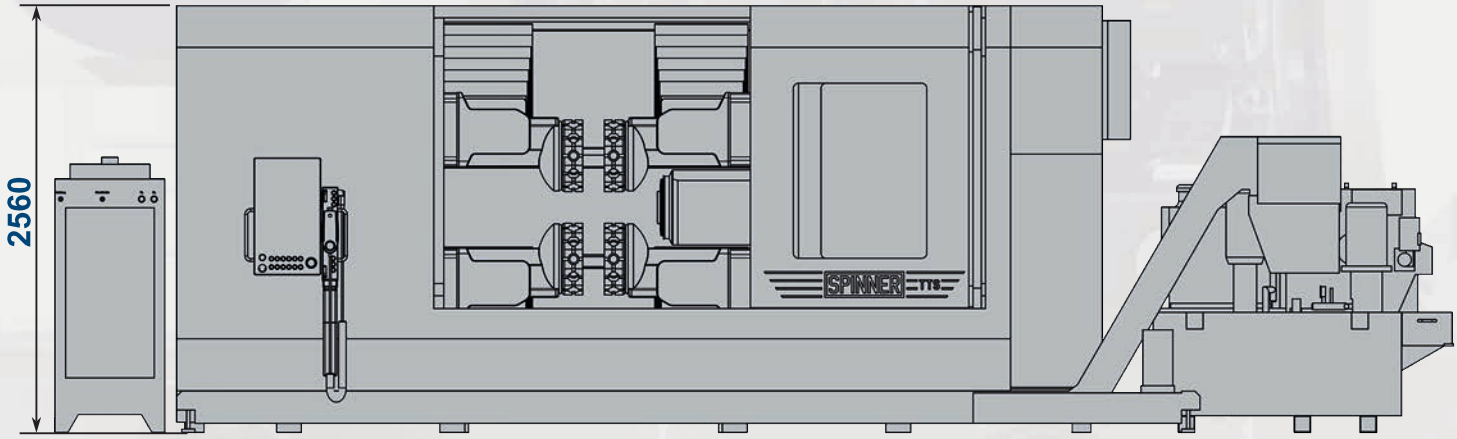


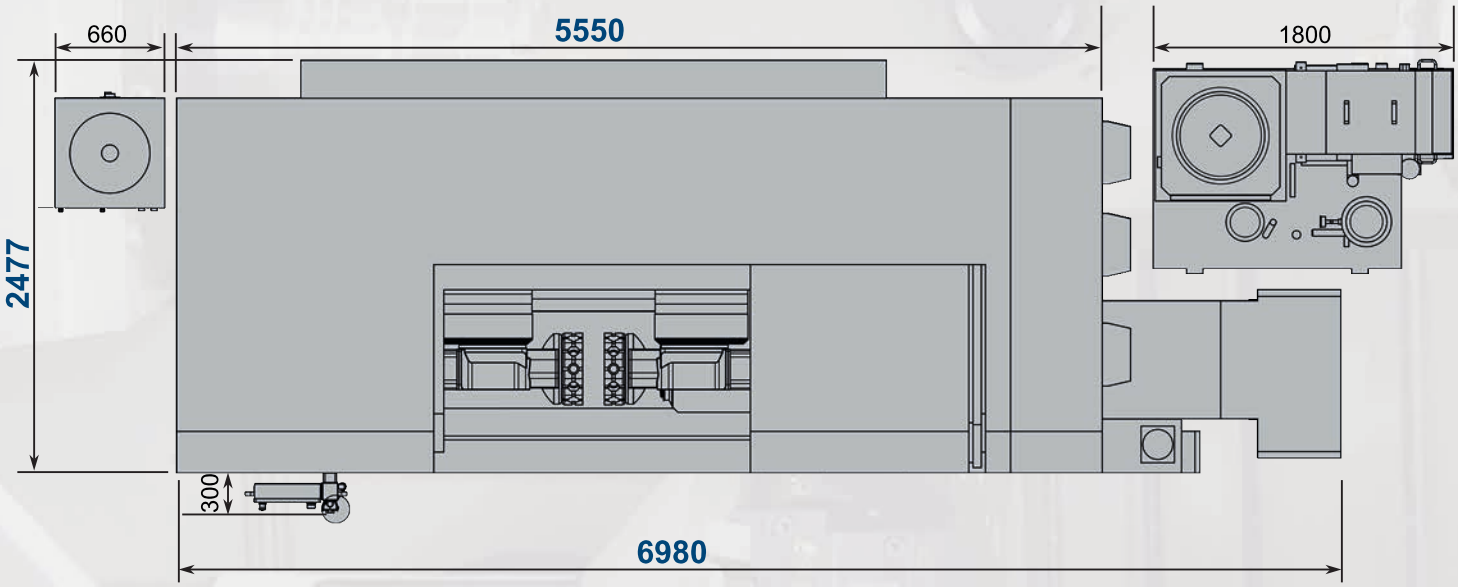
Shown with optional coolant system 80 bar and coolant temperature control
Further variants on request

All dimensions in mm

TTS 85-125 Long bed version







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

All dimensions in mm

SPINNER Werkzeugmaschinenfabrik GmbH

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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