

SPINNER

TS350



High-precision turning machine

Precision and universal turning
Hard turning



Mechanical Engineering

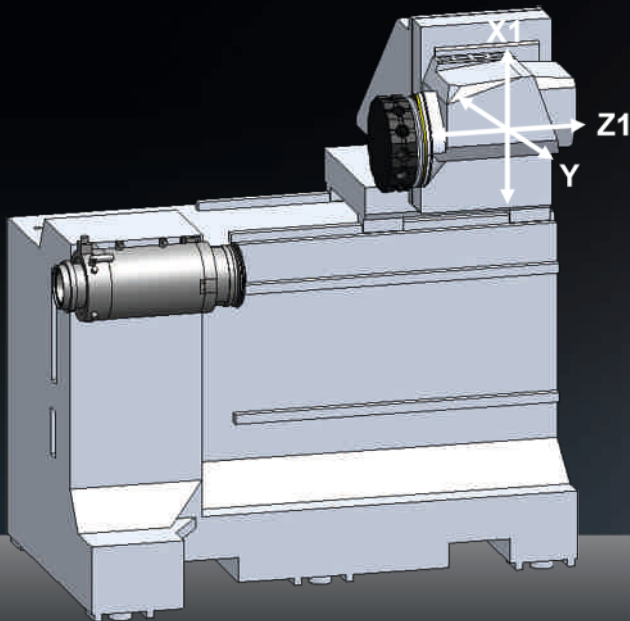
Made in Germany

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Machine Highlights

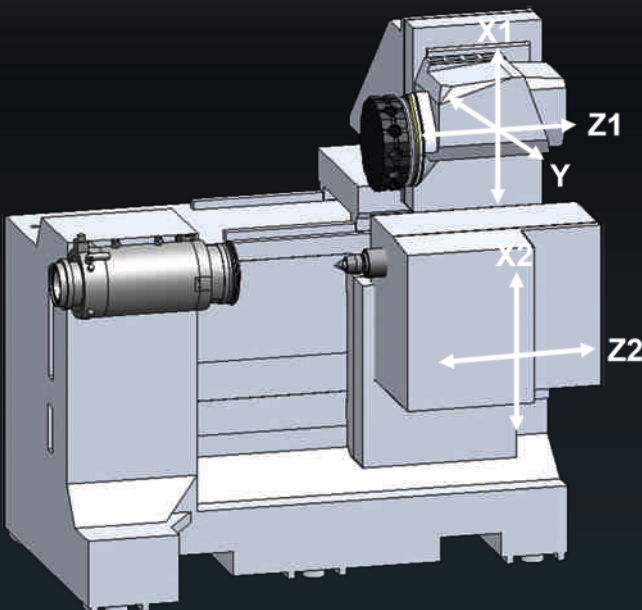
Our TS350 sets new standards in universal precision turning. High-precision, dynamic motor spindles and a hard-turning package for ultra-precision machining capability delivers unmatched precision in a versatile, universal design. Standard is a Y-axis for high-rigidity turning and milling operations.

A CNC-controlled Spindle 2 positioning slide with integrated live center provides programmable vertical positioning for turret clearance during internal machining, precise cylindricity and taper control on long workpieces, and off-center transfer for machining eccentric features.

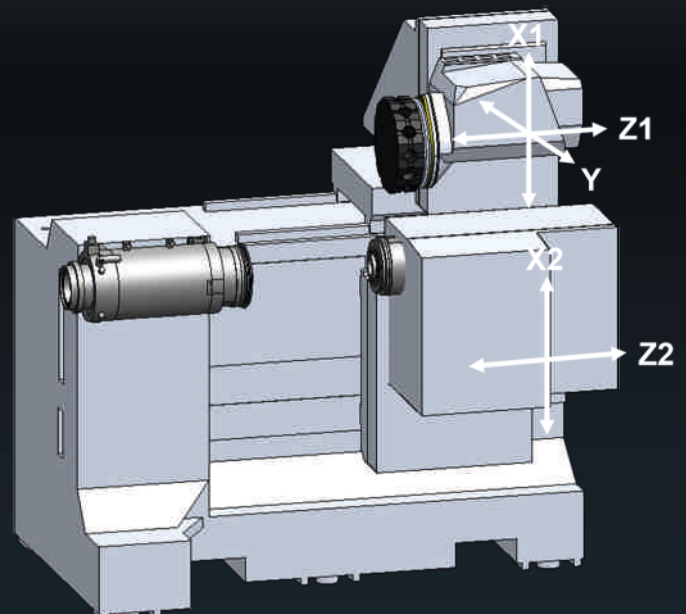


Version without tailstock

- Clear structured working area
- Large panoramic window
- Perfect accessibility for operators
- Short distance between operator and spindle
- For high-performance machining from bar stock or chuck machining
- Available with robot for individual parts handling
- 30% less space required
- State-of-the-art control system
 - Siemens
 - Fanuc

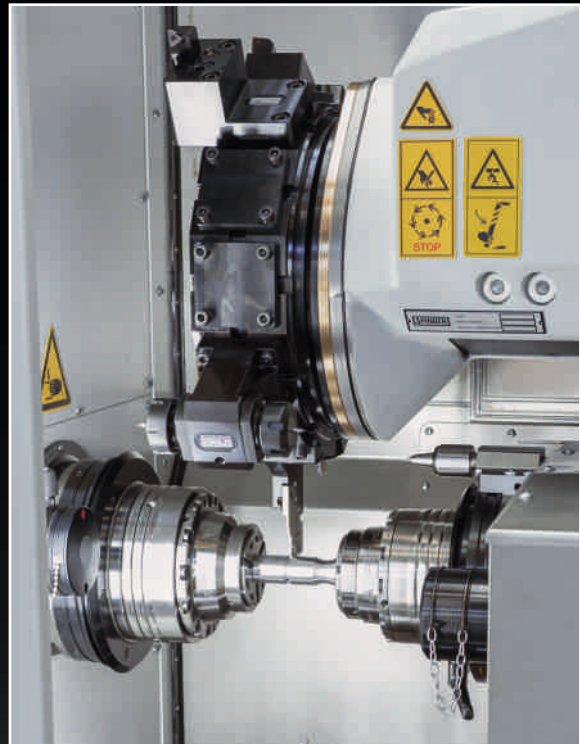
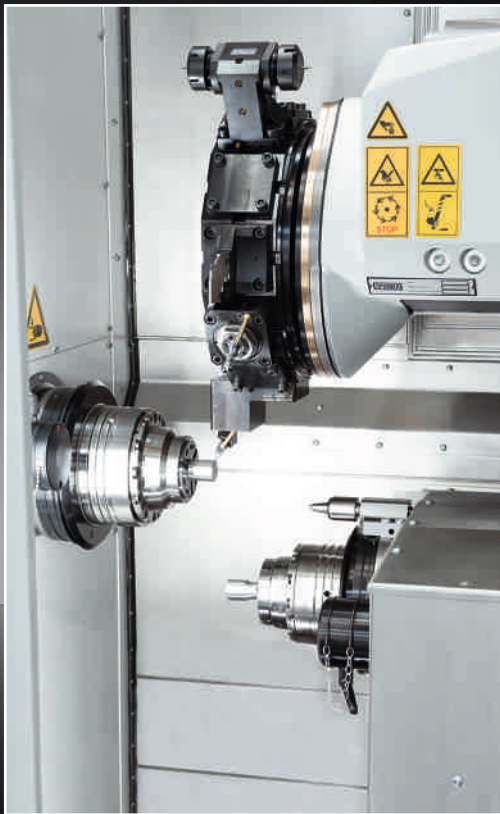


With CNC-tailstock with X2/Z2 axis

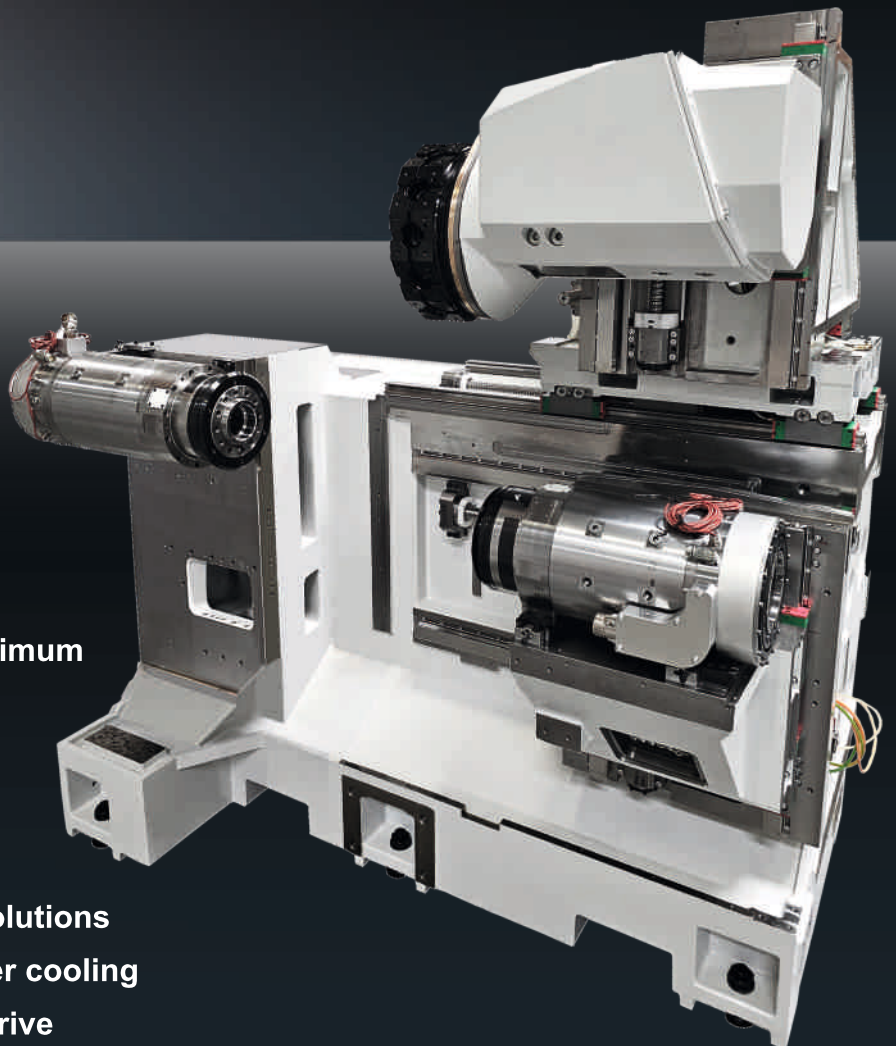


With sub-spindle on positioning slide

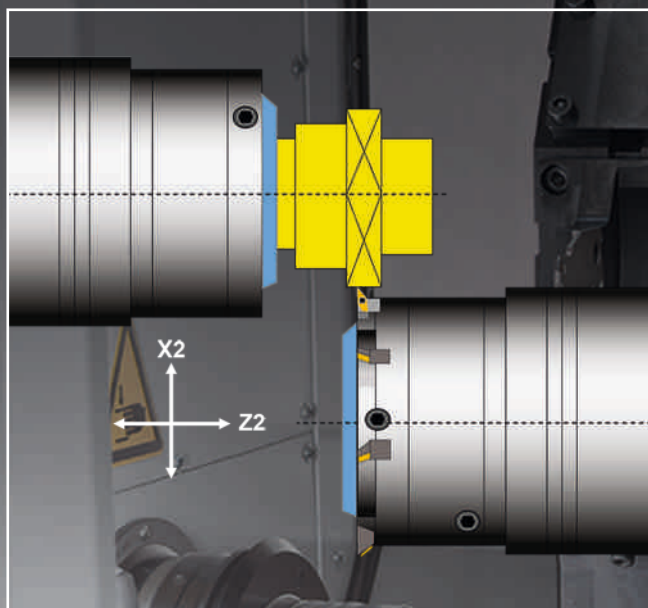
Optimised rigidity
Dynamic
Universal
High precision



- Monoblock base casting with rigid linear guides
- 90 degree bed design provides optimum chip evacuation
- Y-axis as standard
- Optimised heat stability reduces thermal growth
- High-precision and hard-turning solutions
- SPINNER motor spindles with water cooling
- SPINNER servo turret with direct drive



Sub-spindle with programmable lateral positioning



- Sub-spindle can be moved longitudinally for part transfer and transversely for live center support
- High-performance polygon turning is available
- Transfer of eccentric workpieces

- Optional additional tailstock on the sub-spindle
- Shaft machining followed by transfer to the sub-spindle



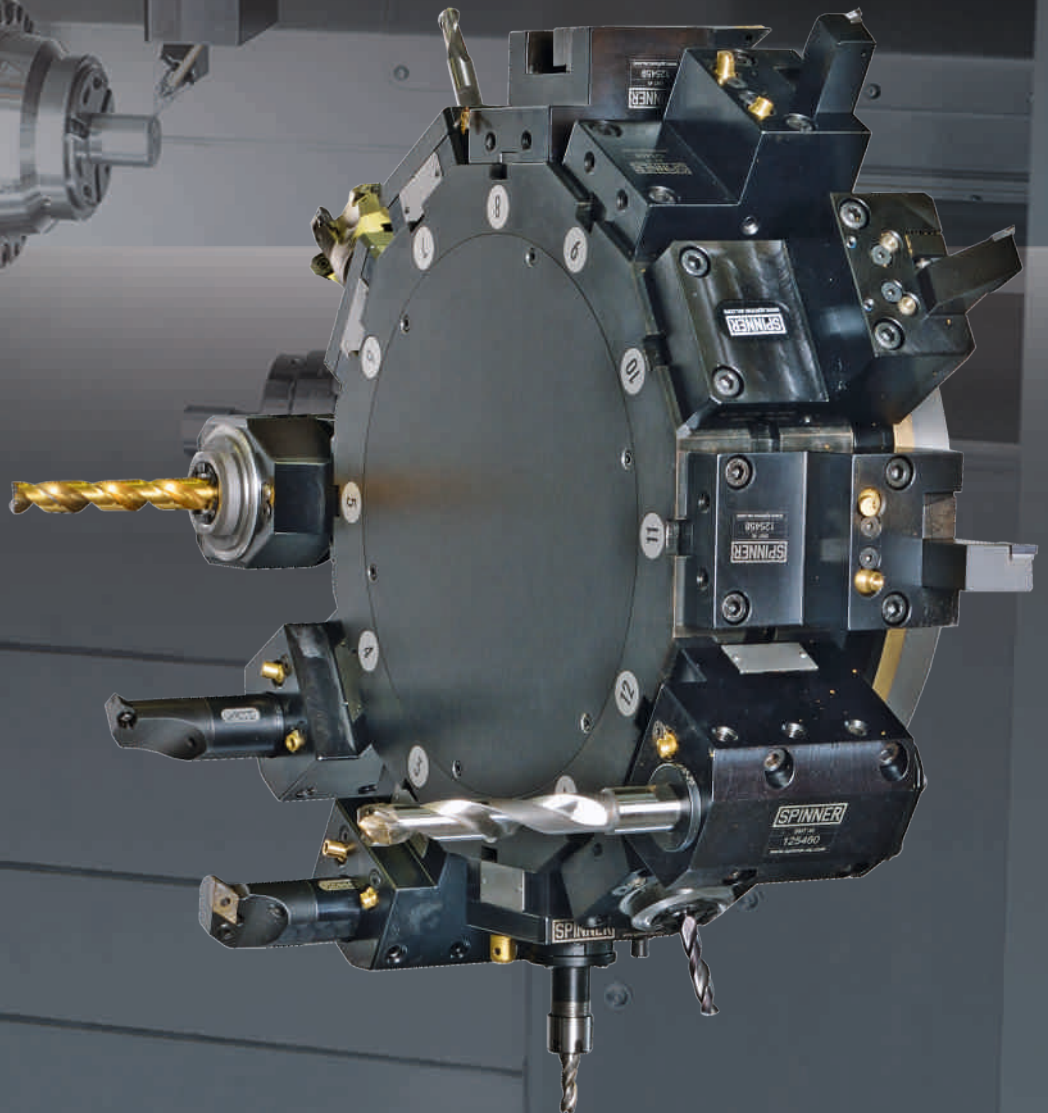
THE all-round solution, even for small batches

State-of-the-art SPINNER servo turret

- With up to 12 driven tools as standard
- Up to 10.000 rpm
- Toolholder BMT as standard

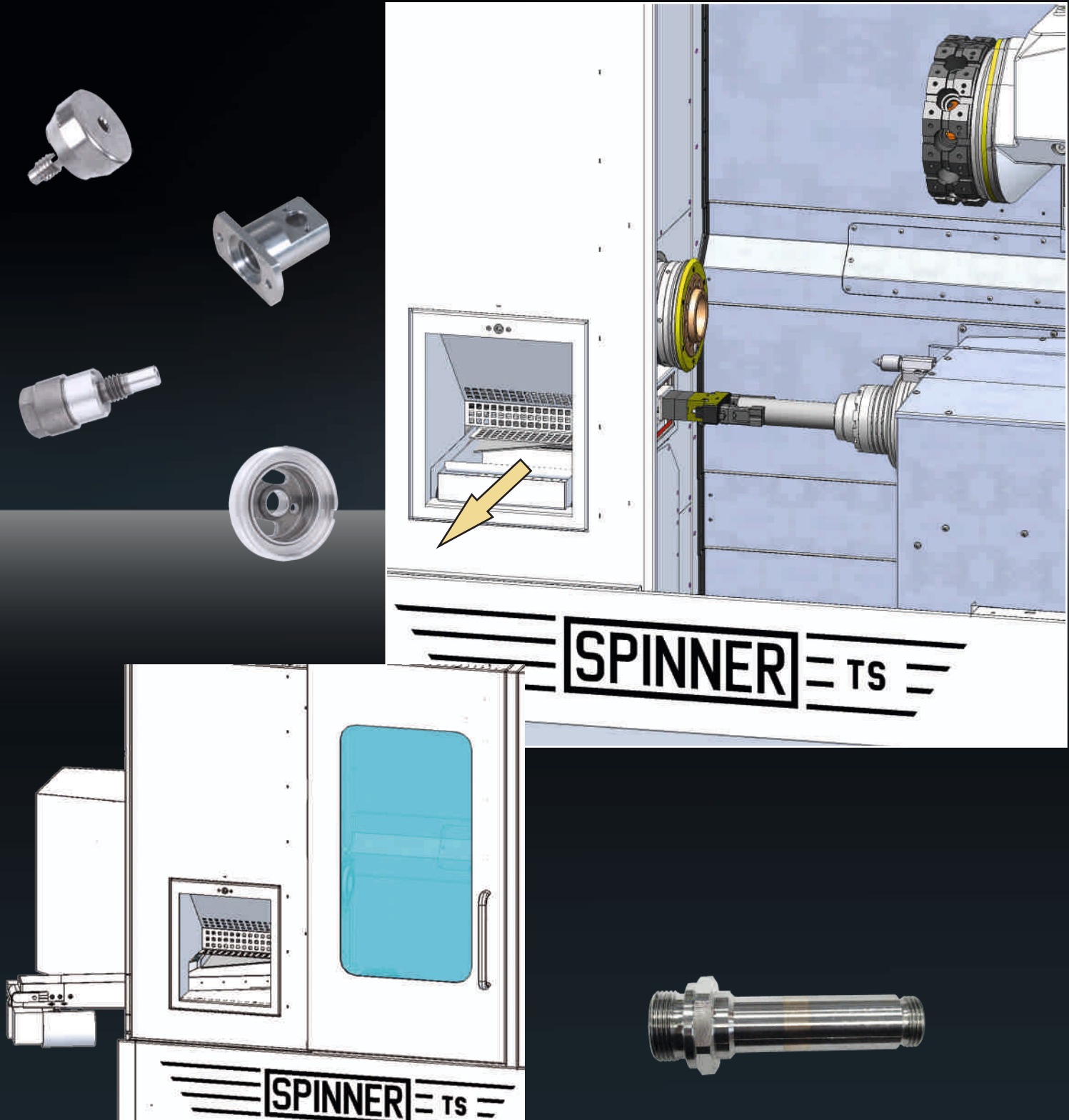
Your advantages at one glance

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



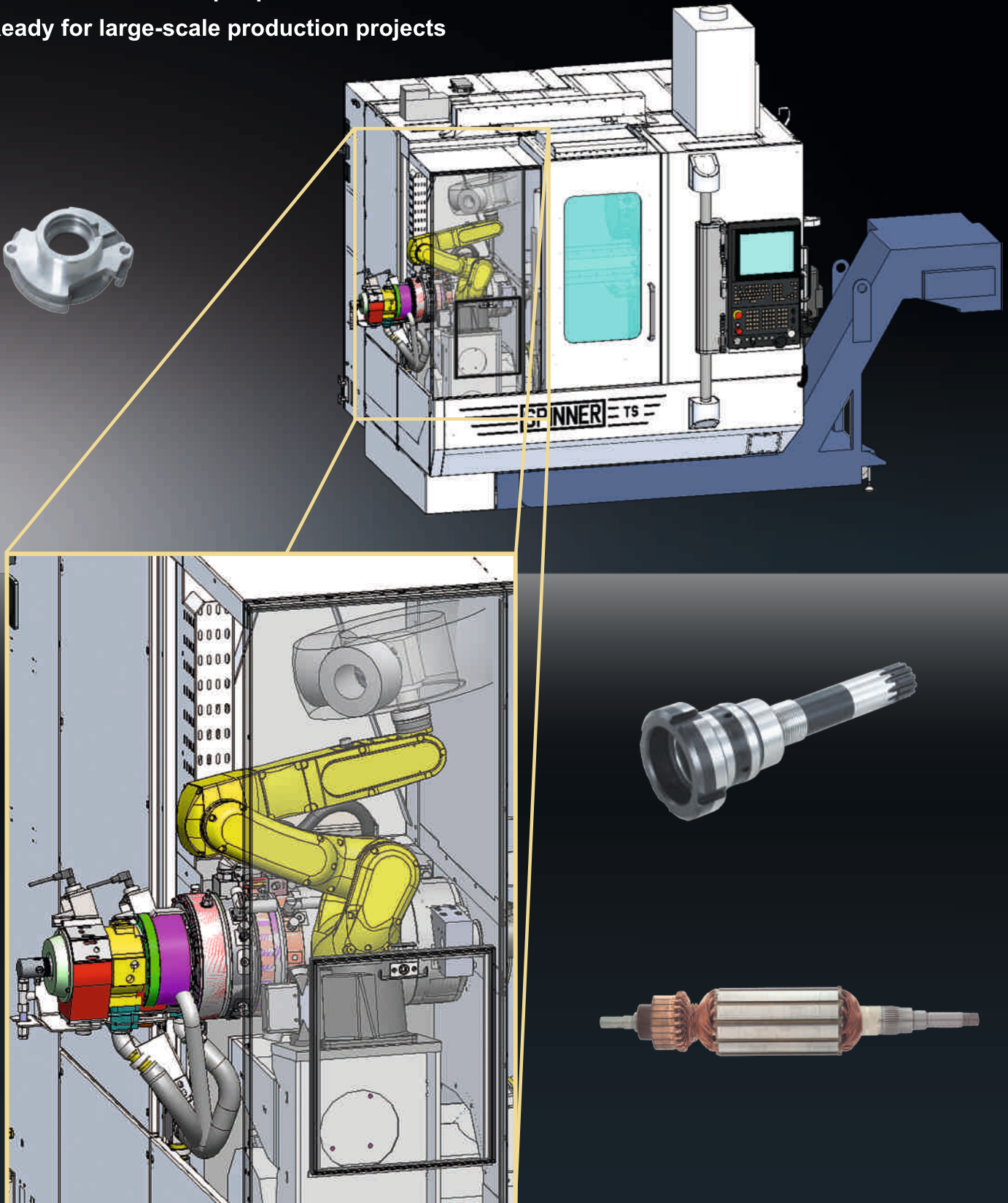
Fully automatic part removal during bar machining

- Universal gripper for part removal from the sub-spindle
- Quick, damage-free part removal without the need for set-up
- Gentle part placement into a collecting box
- Optional discharge parts conveyor belt



Robot integration directly to the machine

- 6-axis robot integrated directly to the machine for part loading and unloading
- Shortest workpiece changeover times
- More features in the peripherals
- Ready for large-scale production projects



Working area			
Swing diameter over bed	500 mm (19.7 in)		
Maximum turning diameter	250 mm (9.8 in)		
Maximum turning length	450 mm (17.7 in)		
X1 axis	205 mm (8.1 in)		
X2 axis	220 mm (8.7 in)		
Y1 axis	+45 / -45 mm (+1.8 / -1.8 in)		
Z1 axis	450 mm (17.7 in)		
Z2 axis (E axis)	450 mm (17.7 in)		
Axes			
Maximum rapid traverse X / Y / Z	24/15/24 m/min (944.9/590.6/944.9 in)		
Workpiece			
Maximum workpiece weight	100 kg (220.5 lbs)		
Spindle 1	Spindle 36		Spindle 52
Maximum spindle speed	7,000 rpm	10,000 rpm ¹⁾	5,200 rpm 6,000 rpm
Spindle nose	A5/DIN		A6/DIN
Maximum chuck diameter	165 mm (6.5 in)		210 mm (8.3 in)
Spindle bore	36 mm (1.4 in)	-	52 mm (2.0 in)
Power	10.5 kW (S6/40%) ²⁾		22 kW (S6/40%) ³⁾
Torque	64 Nm (S6/40%) ²⁾		130 Nm (S6/40%) ³⁾
Spindle 2			
Maximum spindle speed	7.000 rpm with spindle bore 36 mm / 10.000 rpm ¹⁾		
Spindle nose	A5/DIN		
Maximum chuck diameter	165 mm (6.5 in)		
Power	10.5 kW (S6/40%) ²⁾		
Torque	64 Nm (S6/40%) ²⁾		
Turret			
Number of tool stations	12		
Number of driven tool stations	12		
Toolholder	BMT45		
Maximum speed of driven tools	8,000 rpm (option 10,000 rpm)		
Power (S1/S3 40%)	2.3 / 2.9 kW ⁴⁾		
Torque (S1/S3 40%)	7.3 / 11.5 Nm ⁴⁾ (option 10,000: 5.8 / 9.2 Nm ⁵⁾)		
Tailstock			
Morse taper with optional tailstock on sub-spindle	MK2		
Morse taper with optional tailstock instead of sub-spindle	MK4		
Tailstock stroke Z2 (E) with optional tailstock on sub-spindle	450 mm (17.7 in)		
General indication			
Dimensions (L x W x H)	3580 ⁶⁾ x 2270 x 2025 ⁷⁾ mm (140.9 x 89.4 x 79.7 in)		
Weight	4100 - 5500 kg (9,038.9 - 12,125.4) ⁸⁾		

1) 10,000 rpm: Hydraulically operated closed-center cylinder without through-hole for bar material

2) Rated speed 2,000 rpm

3) Rated speed 1,600 rpm

4) Rated speed 3,000 rpm

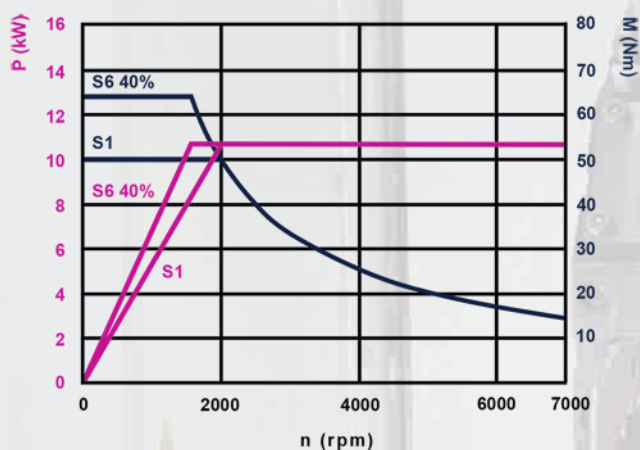
5) Rated speed 3,750 rpm

6) 3,580 mm (140.9 in) with chip conveyor; 4,670 mm (183.9 in) including optional high pressure coolant tank

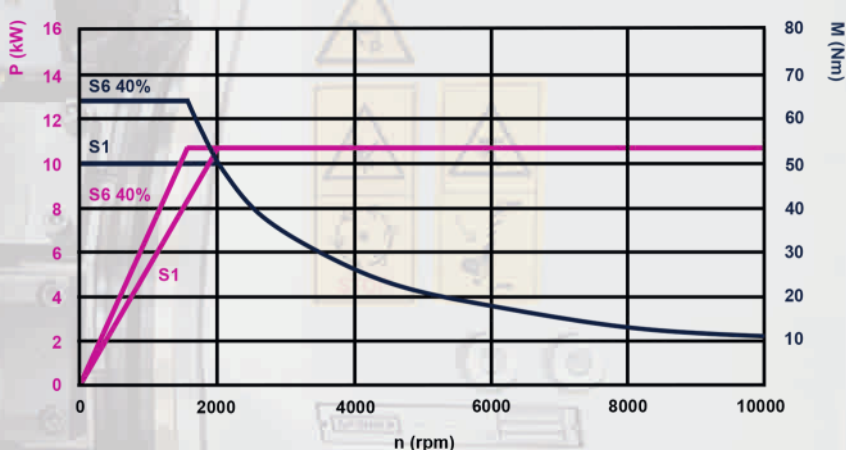
7) Height without options; 2,290 mm (90.2 in) with optional automatic door; 2,670 mm (105.1 in) with optional suction unit for coolant mist

8) Depending on the specifications

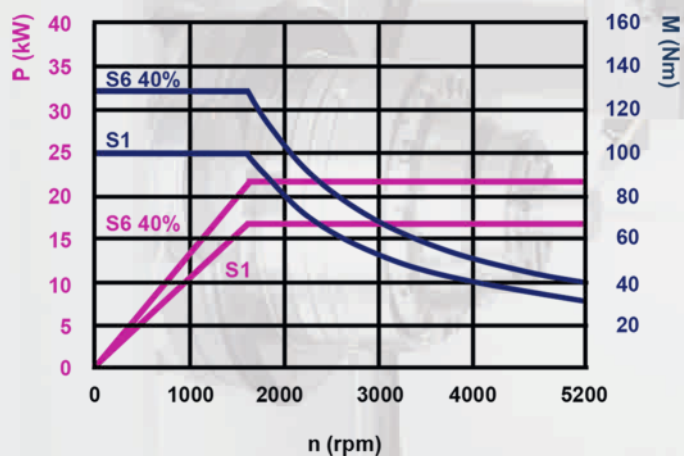
Spindle 7,000 rpm



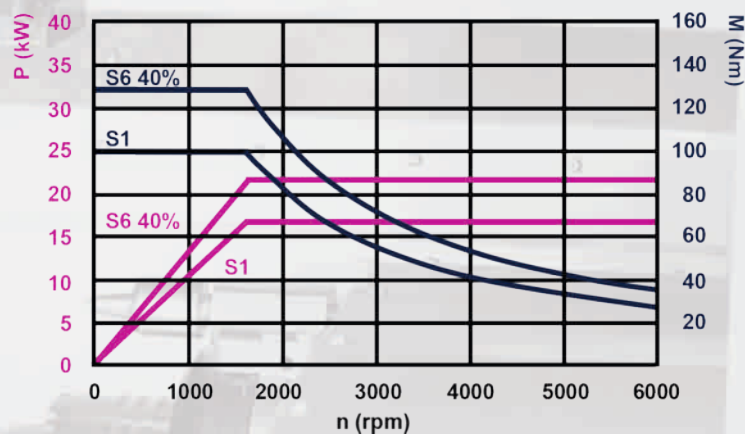
Spindle 10,000 rpm



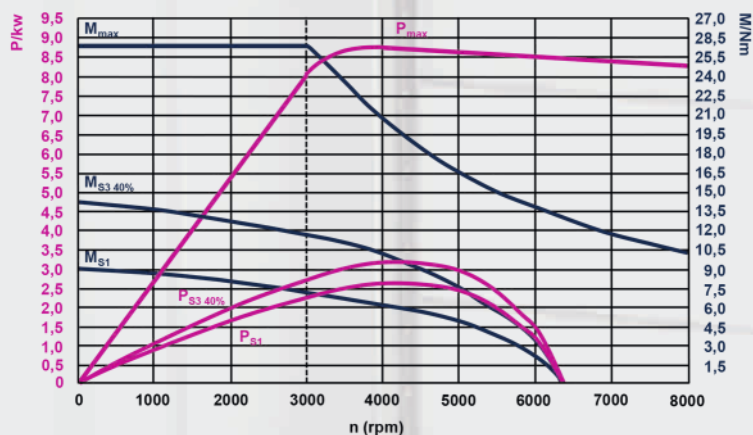
Spindle 5,200 rpm



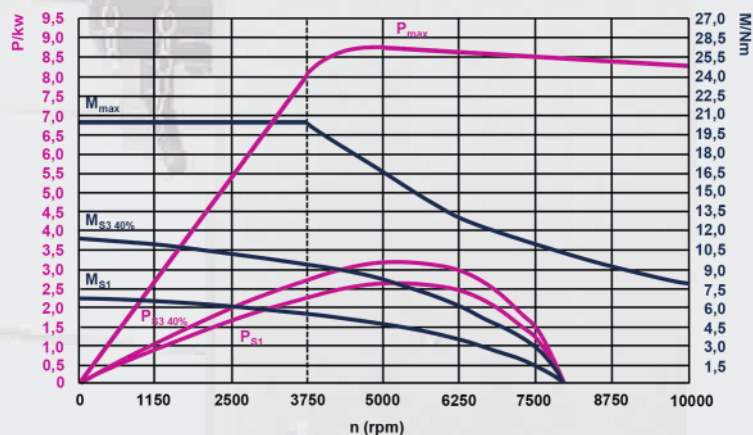
Spindle 6,000 rpm



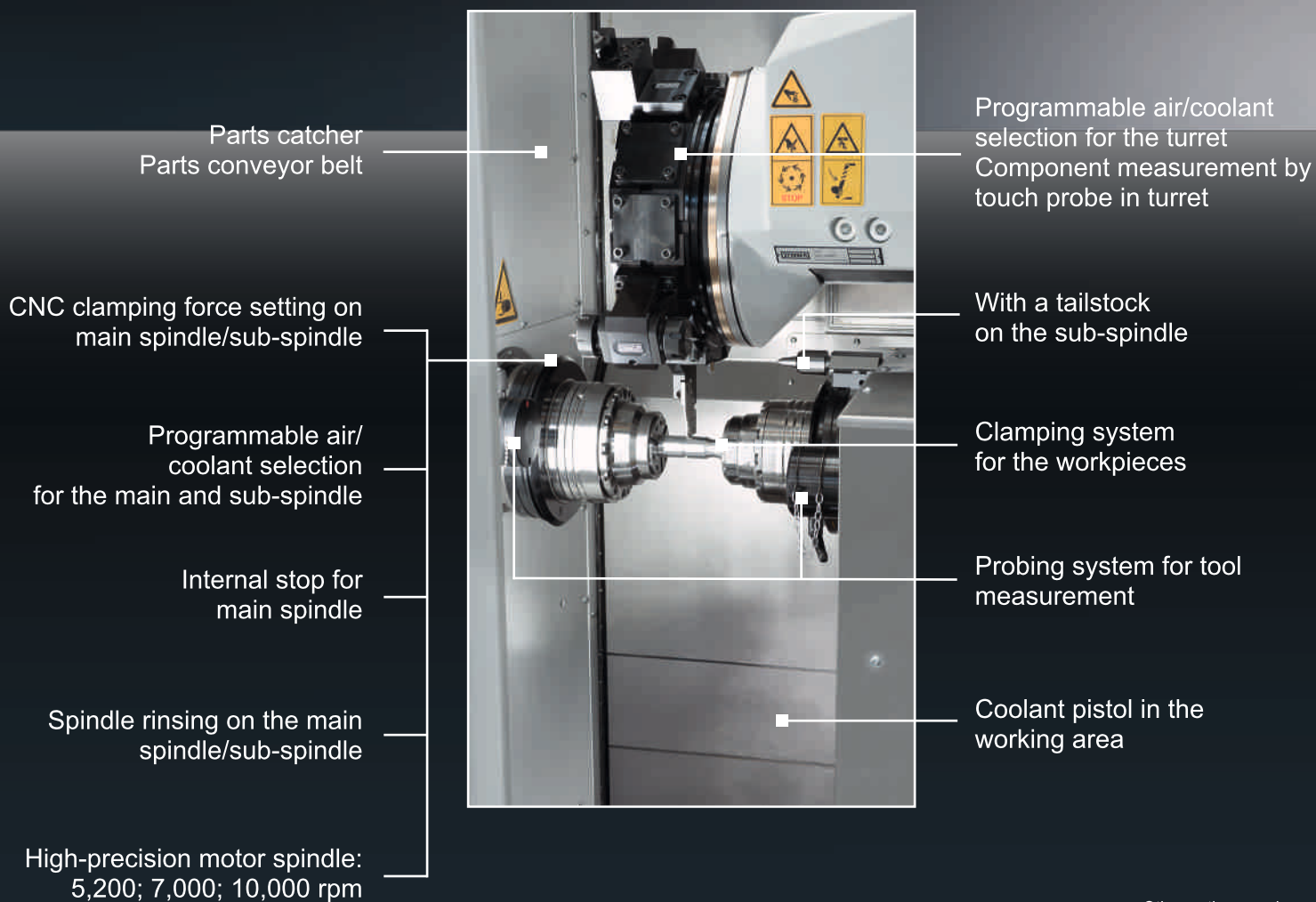
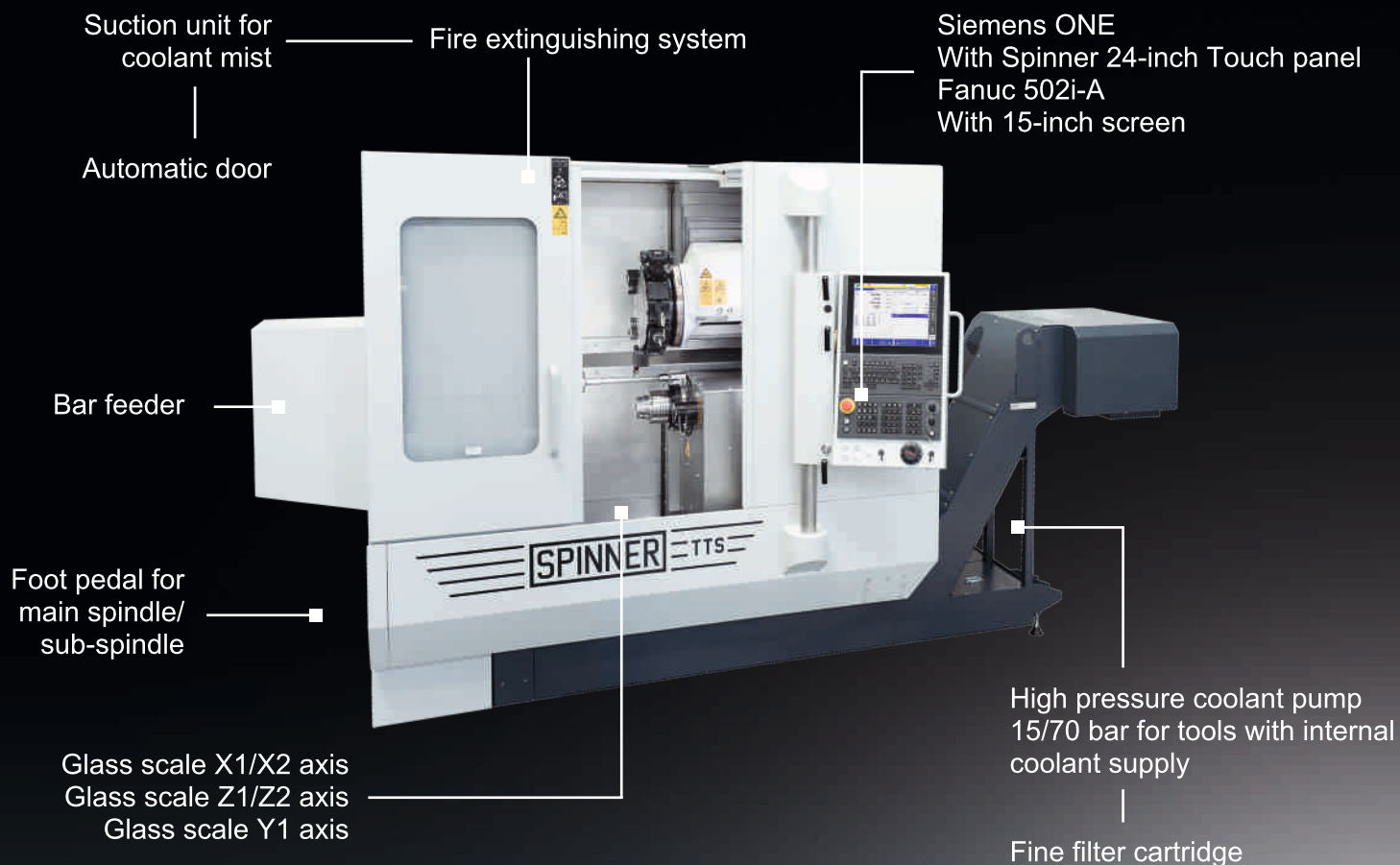
Driven tool 8,000 rpm



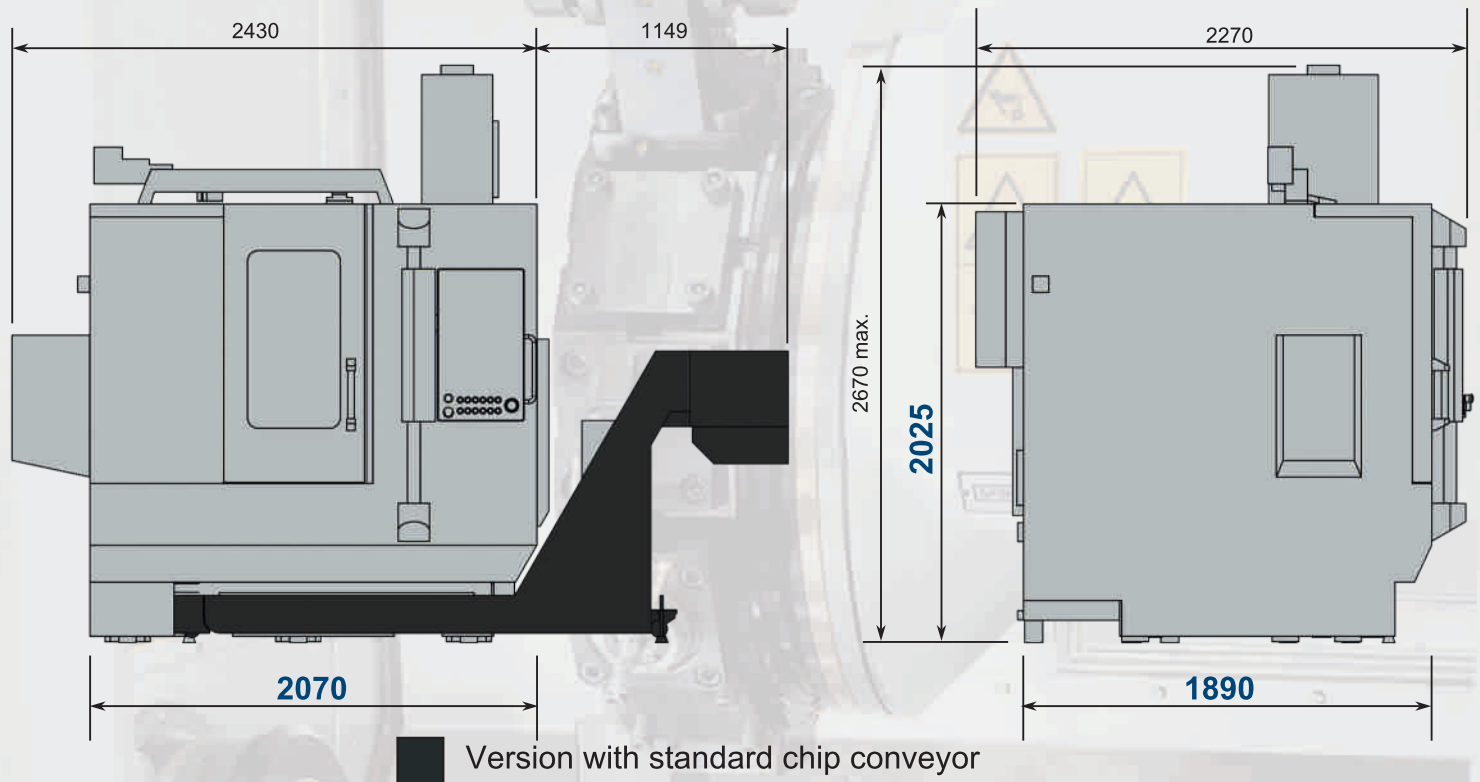
Driven tool 10,000 rpm *



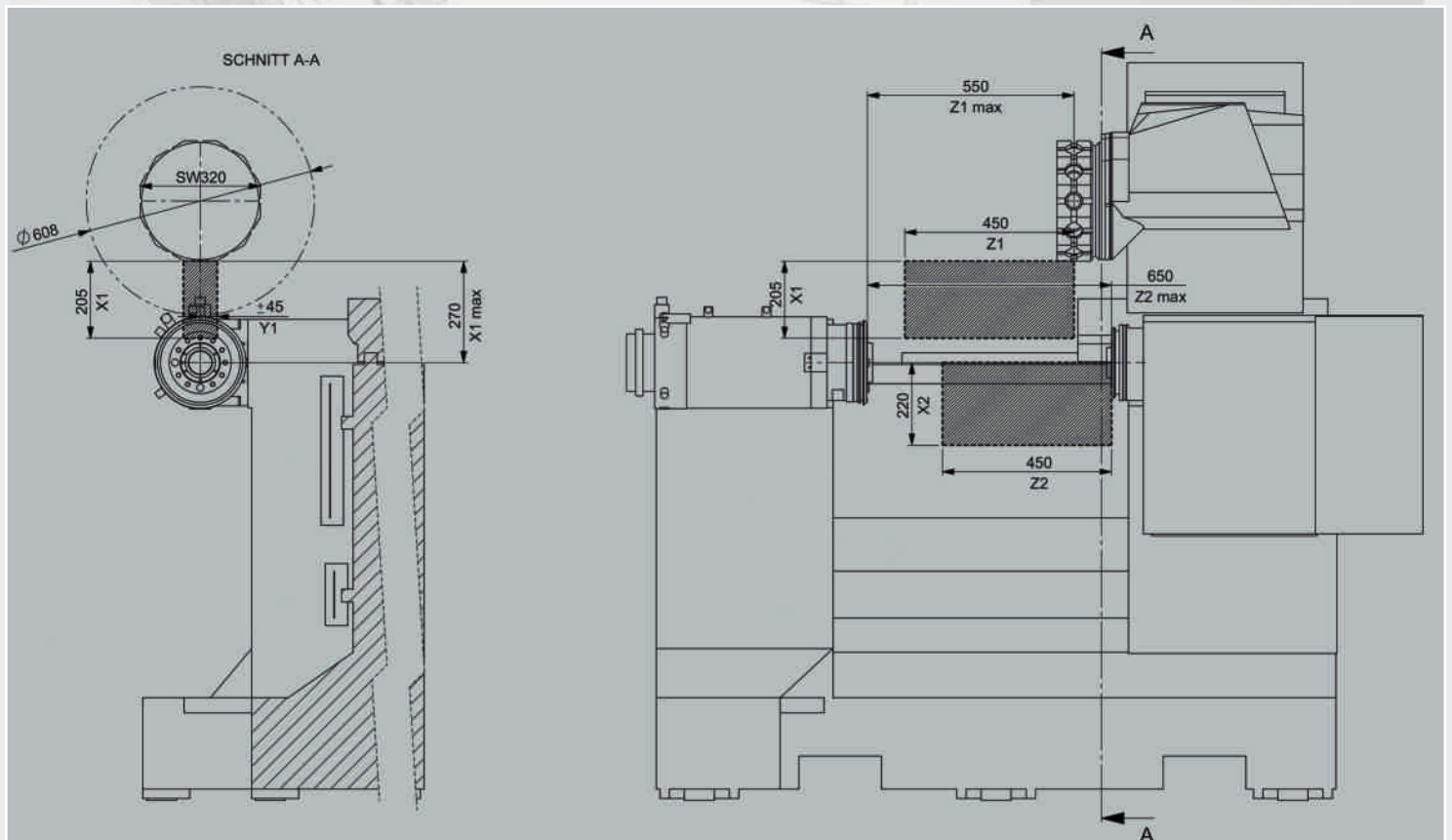
* Increase in speed to 10,000 RPM via a changed gear ratio (optional). This reduces the torque by 20%.



Other options on demand



Compact dimensions combined with a large working area





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