

SPINNER

MICROTURN

Micro-finishing AND complete precision machining



Mechanical Engineering

Made in Germany

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Machine versions



Micro-finishing turning and hard-turning in the sub-micron range with lowest thermal growth require a high rigidity of the slide system and only a low number of involved axes. All this is combined in our new MICROTURNS with a spindle headstock that moves in X and Z direction and a high-rigid static linear tooling table.



L-Version

With linear tool table as micro-finishing and hard-turning machine

LT-Version

With linear tool table AND turret with Y axis

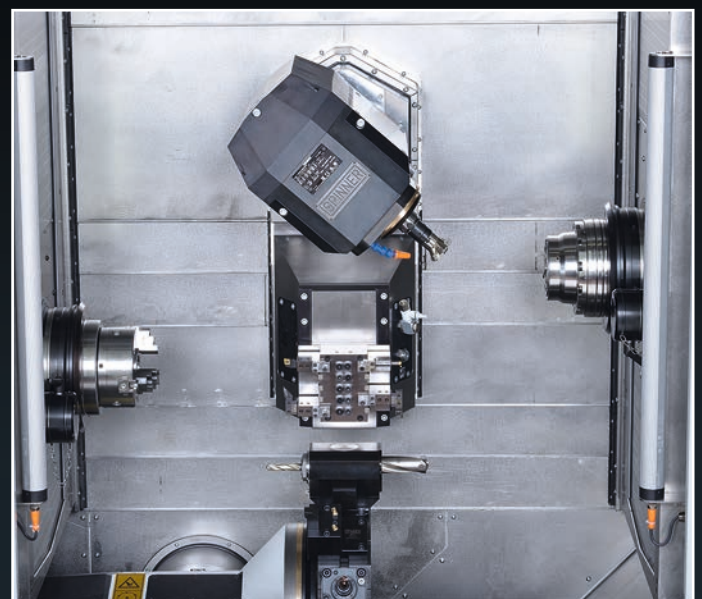


The machining concept of the micro-finishing centre can be completed by a turret with Y axis in the lower area of the workspace and optionally by a Y slide with a pivoting spindle (B axis) in the upper area of the workspace for universal machining. A sub-spindle is also available.



LTBS-Version

With linear tool table AND turret with Y axis AND milling spindle with Y/B axis (picture on the right: tool change)



LTBS-Version

Completed by a second spindle for synchronous machining and workpiece transfer

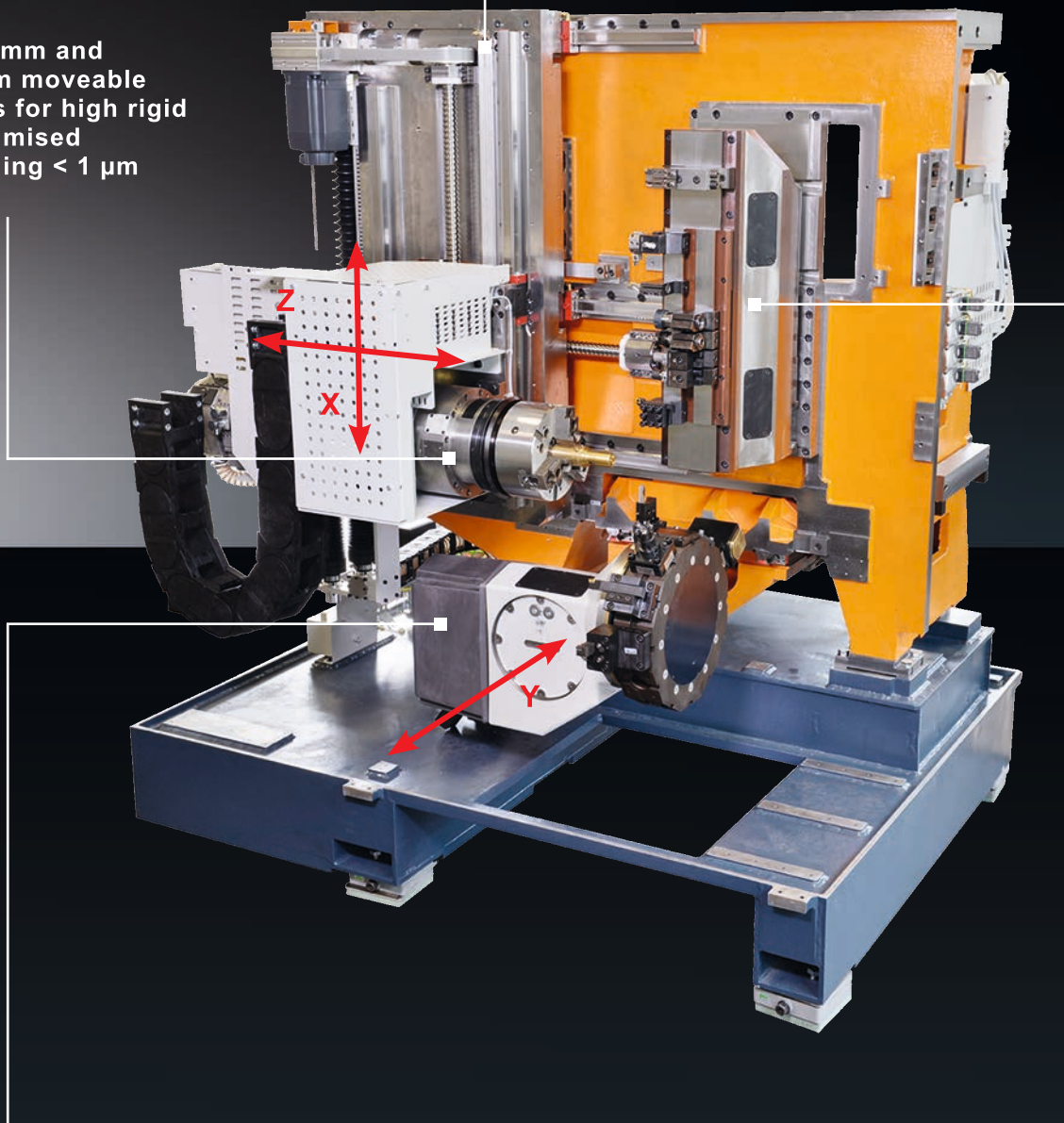


With this, our SPINNER MICROTURNS combines a micro-finishing and hard-turning centre, optionally with the possibility of a complex Turning-Milling Centre WITHOUT loss of any precision.

Micro-finishing
Hard-turning
Universal machining
Made in Germany

Direct measuring systems for all axes

In X 600mm and
Z 350mm moveable
spindles for high rigid
and optimised
positioning $< 1 \mu\text{m}$



Rigid SPINNER Servo-turret with tool holder according to BMT45

Static linear table for standard linear tooling or special tools

Machine bed of a single-spindle machine, LT-Version

Machine Highlights

Large panoramic window to the workspace

With or without 33-tool-magazine or 72-tool-magazine

Optional B axis with milling spindle

Chip conveyor as standard



Latest control system: Siemens 840D-SL with Spinner Touch panel 4.0

Operating panel adjustable in height and angle

High precision motor spindles "Made by SPINNER" of various sizes

Perfect free chip fall

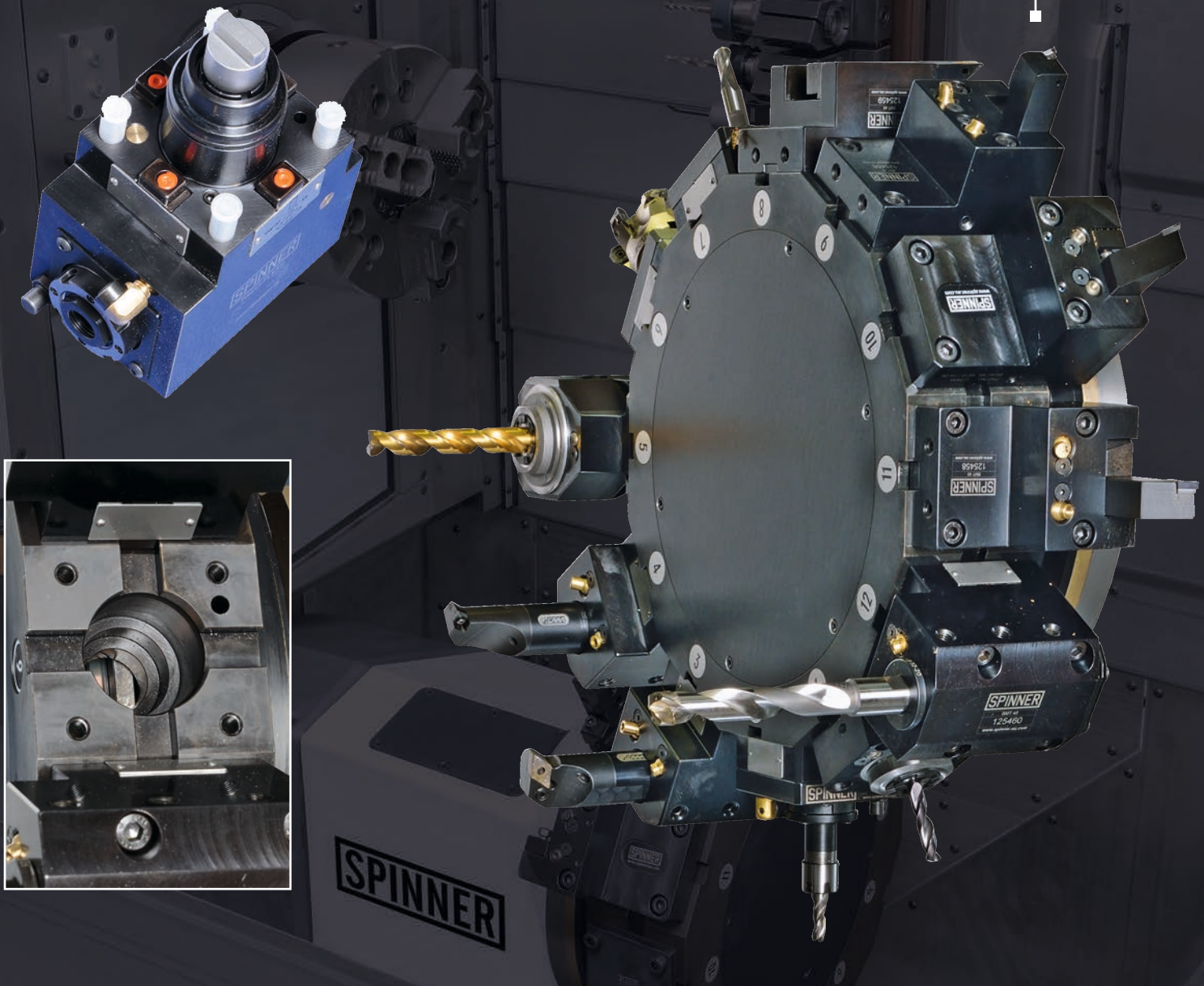
Easy access of automation

Modern SPINNER Servo-Turret with up to 12 driven tool stations for powerful milling

Tool holder according to BMT45 as standard

Your advantages at one glance when using BMT45

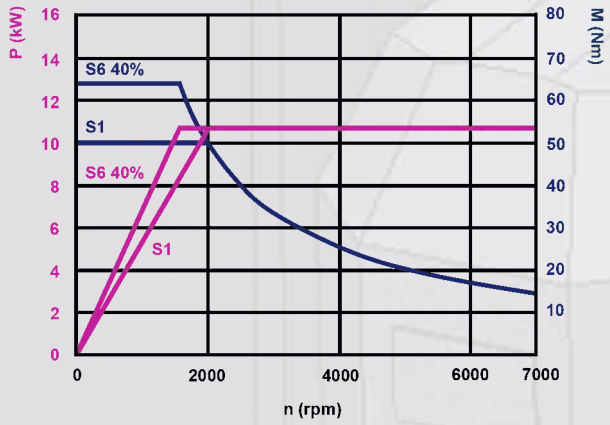
- High toolholder exchange precision
- No adjustment is required
- High stiffness
- Higher turning and milling performance



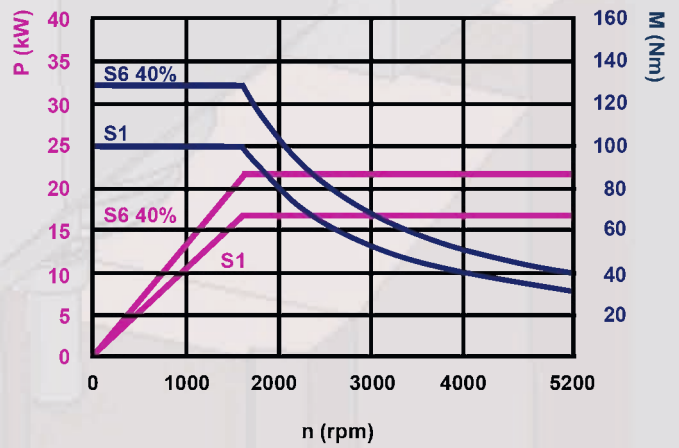
Working area	Microturn 36	Microturn 52
Swing diameter	608 mm (23.9")	
Max. turning diameter	~ 150 mm (~ 5.9")	
Max. turning length	~ 250 mm (~ 9.8")	
X / Z axis	600 / 350 mm (23.6" / 13.8")	
Y1 / Y2 axis	+50 / -50 mm (+1.9" / -1.9")	
Axes		
Rapide traverse X / Y / Z	24 / 15 / 24 m/min (944.9 IPM / 590.6 IPM / 944.9 IPM)	
Turning spindles		
Max. spindle speed	7,000 rpm ¹⁾ / 10,000 rpm ²⁾	5,200 rpm ¹⁾
Spindle nose	A5	A6
Spindle bore in the push tube	0 / 36 mm (1.4" / 0")	52 mm (2.0")
Chuck diameter	160 mm (6.3")	210 mm (8.3")
Performance	10.5 kW (S6 / 40%) ³⁾	22 kW (S6 / 40%) ⁴⁾
Torque	64 Nm (S6 / 40%) ³⁾	130 Nm (S6 / 40%) ⁴⁾
Milling spindle		
Max. spindle speed	12,000 rpm	
Tool holder	HSK40	
Performance	15 kW (S6 / 40%) ⁵⁾	
Torque	17 Nm (S6 / 40%) ⁵⁾	
Turret		
Number of tool stations	12	
Number of driven tool stations (option)	all	
Tool holder	BMT45	
Max. speed of driven tools	8,000 rpm	
Performance	4.3 kW (S3 25%) ⁶⁾	
Torque	13.6 Nm (S3 25%) ⁶⁾	
Tool magazine		
Number of tool stations	33 / 72	
Max. tool diameter	88 mm (3.5")	
In case of free adjacent tool stations	100 mm (3.9")	
Max. tool length	140 mm (D=88/100 mm); 160 mm (D=8 mm) (5,5" (D=3.5"/3.9"); 6.3" (D=0.3")	
General indications		
Dimensions (L x W x H) ⁷⁾	2010 / 3030 x 2840 x 2890 mm (79.1" / 119.3" x 111.8" x 113.8")	
Weight	Starting from 6,000 kg (13,227.7 lbs) ⁸⁾ / Starting from 7,700 kg (16,975.6lbs) ⁹⁾	

1) Optionally higher spindle speed with hybrid bearings; 2) Hydraulically operated closed-center cylinder without through-hole for bar material; 3) Rated speed 2,000 rpm; 4) Rated speed 1,600 rpm; 5) Rated speed 8,500 rpm; 6) Rated speed 3,000 rpm; 7) See floorplan; 8) Net weight of the short machine version: without sub spindle, with linear tool table, milling spindle, turret and tool-magazine; 9) Net weight of the long machine version: with main spindle 52, with subspindle 52, milling spindle, turret and 33-tool-station magazine

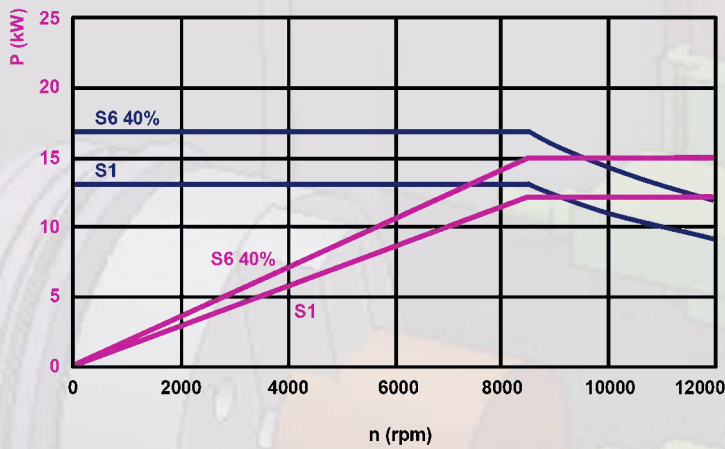
Turning spindle Microturn 36 7,000 rpm



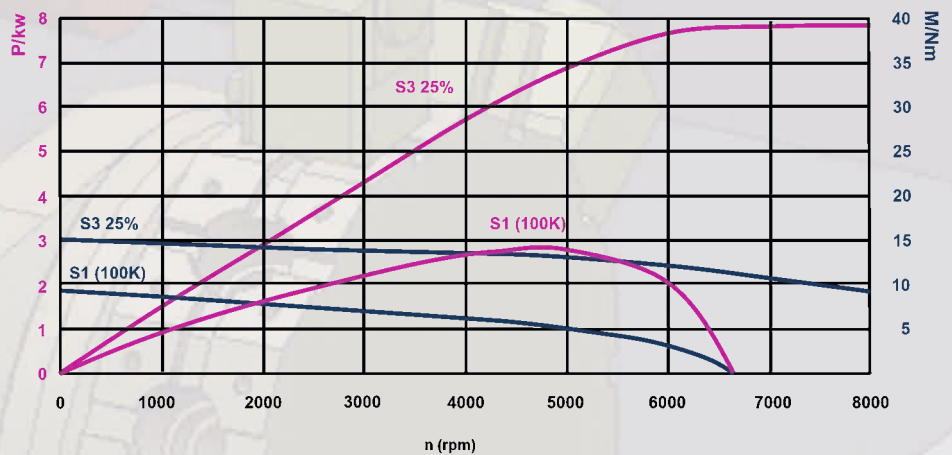
Turning spindle Microturn 52 5,200 rpm

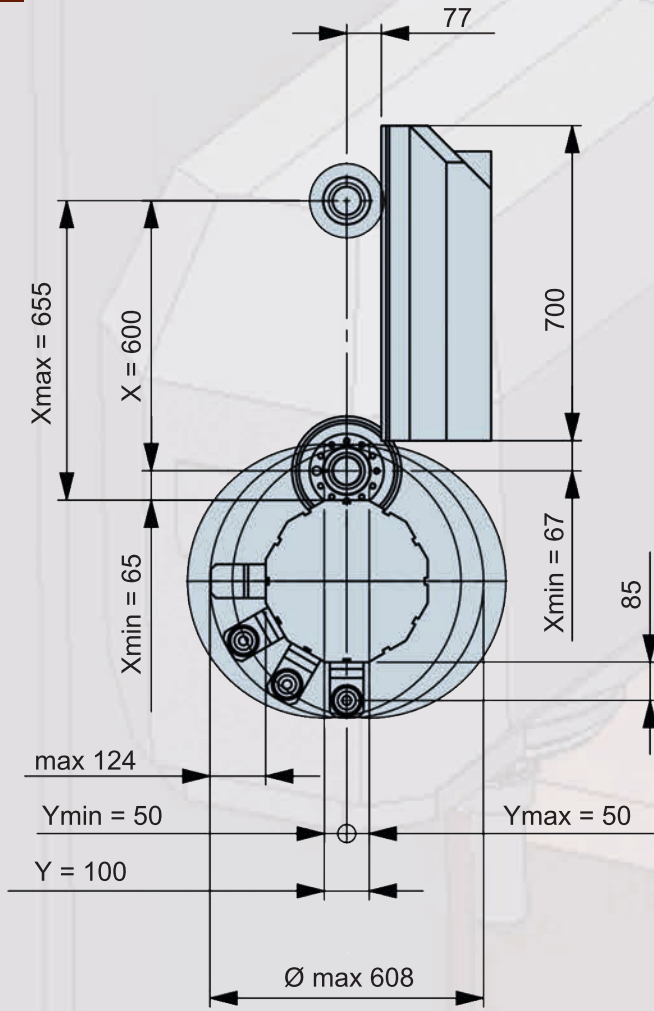


Milling spindle 12,000 rpm

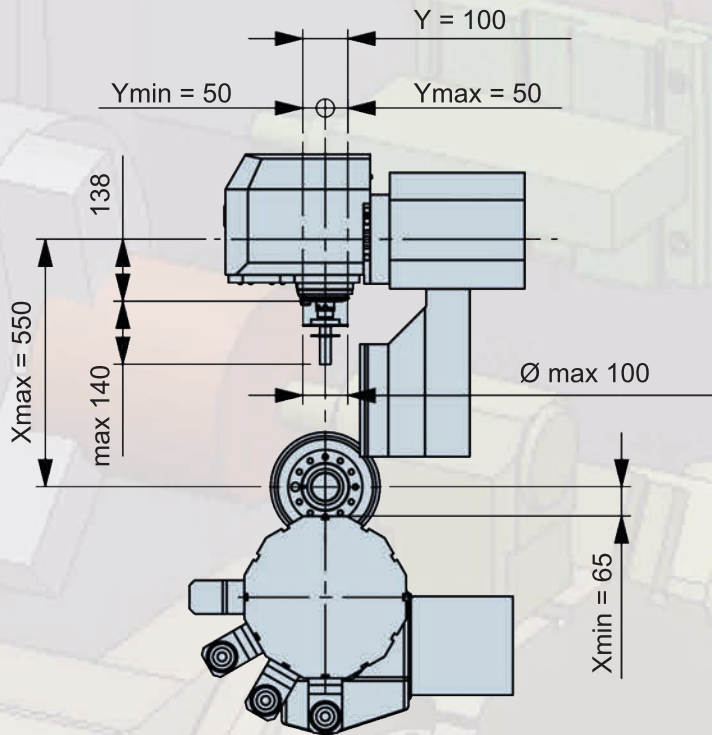


Driven tools (turret)

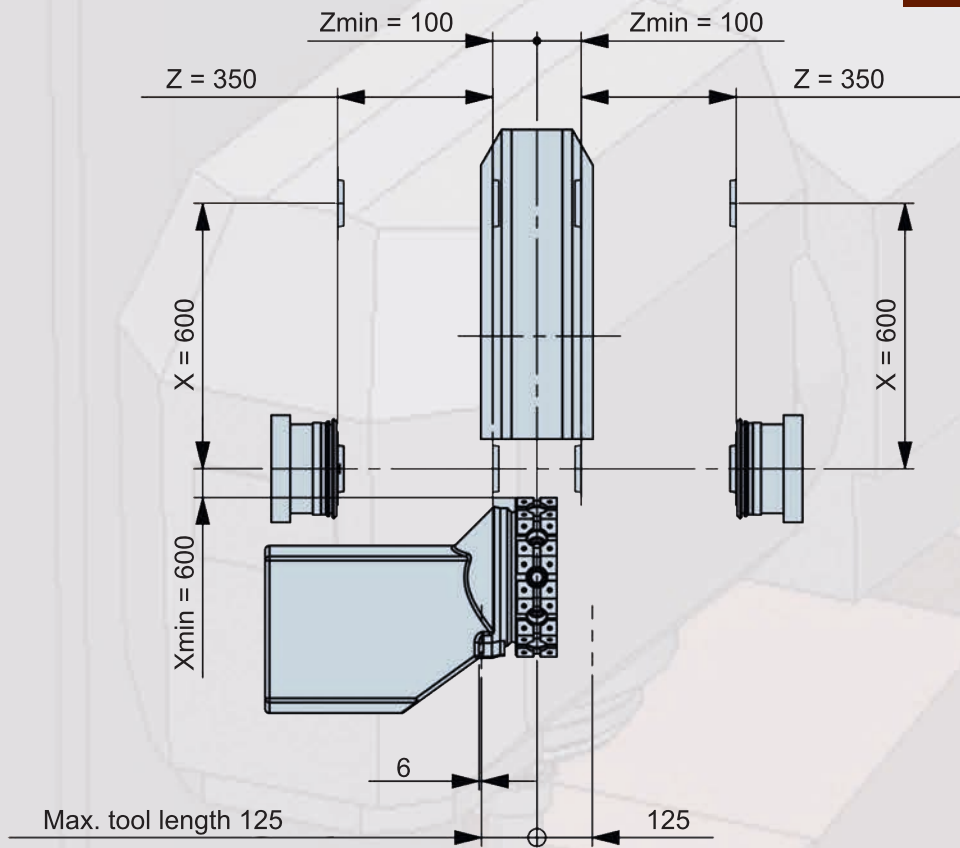




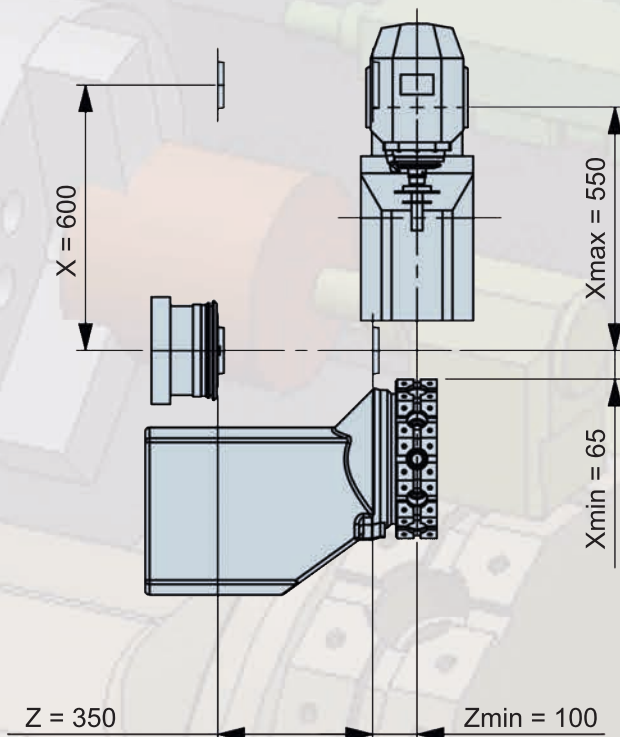
LT-Version



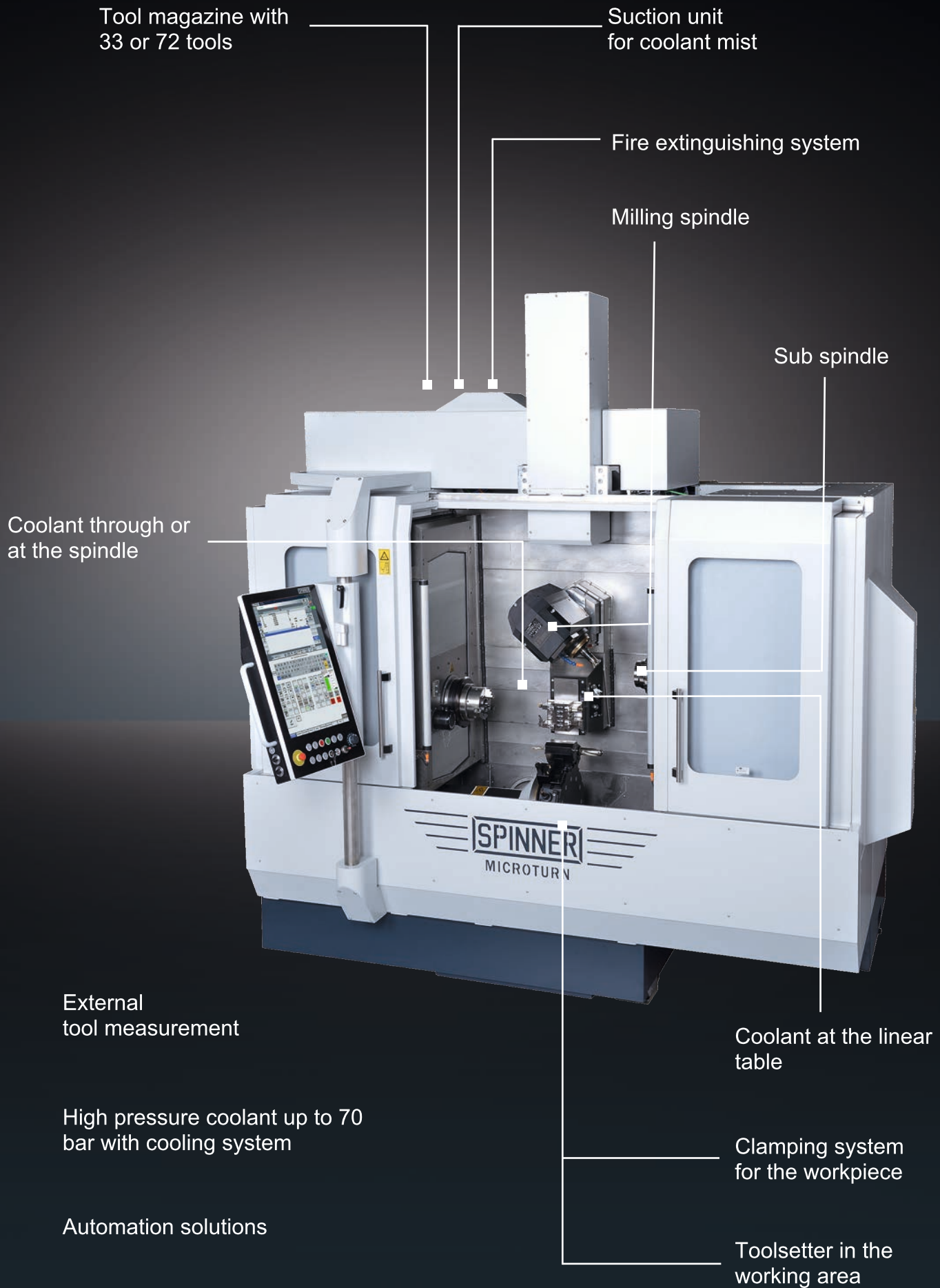
LTB-Version



LT-Version

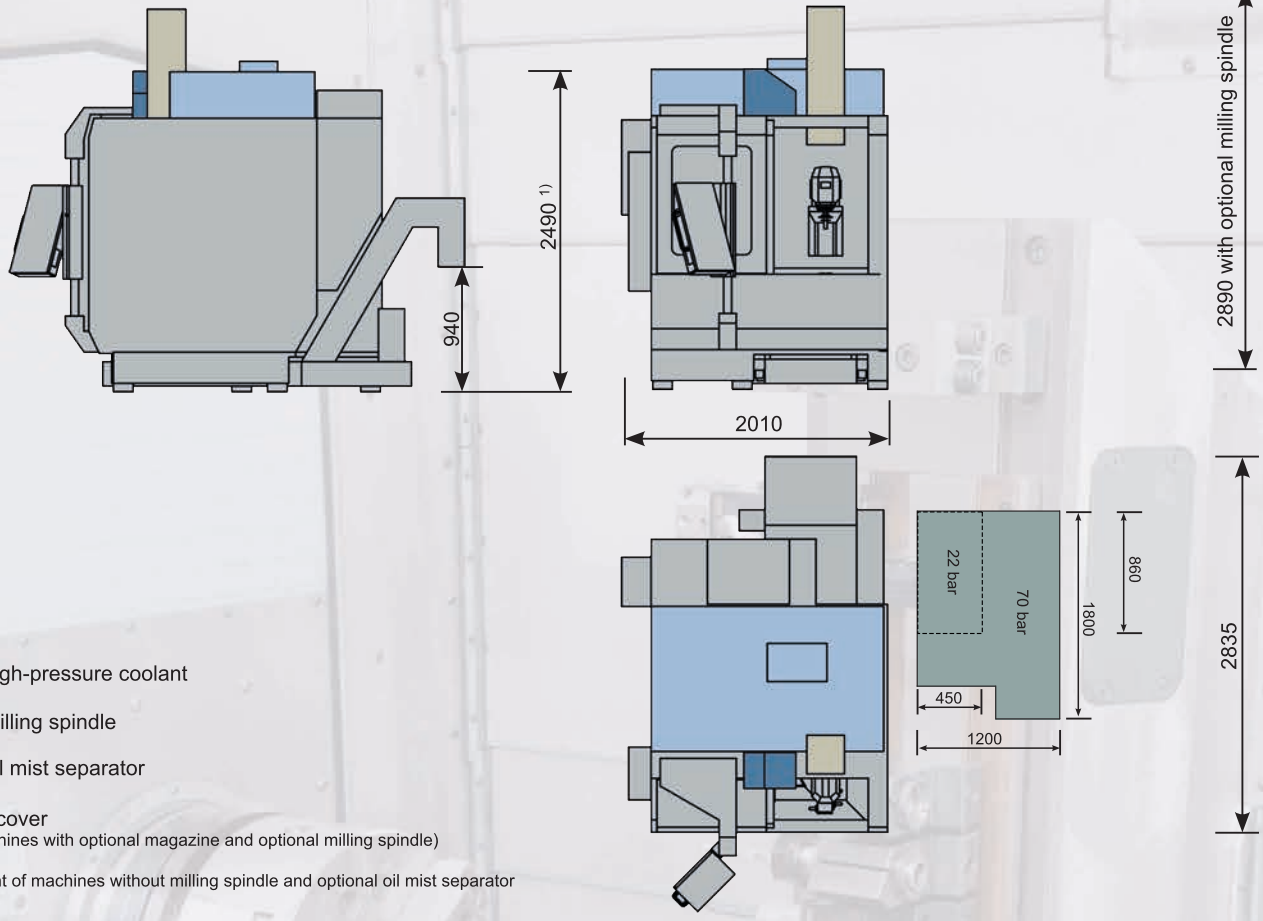


LTB-Version



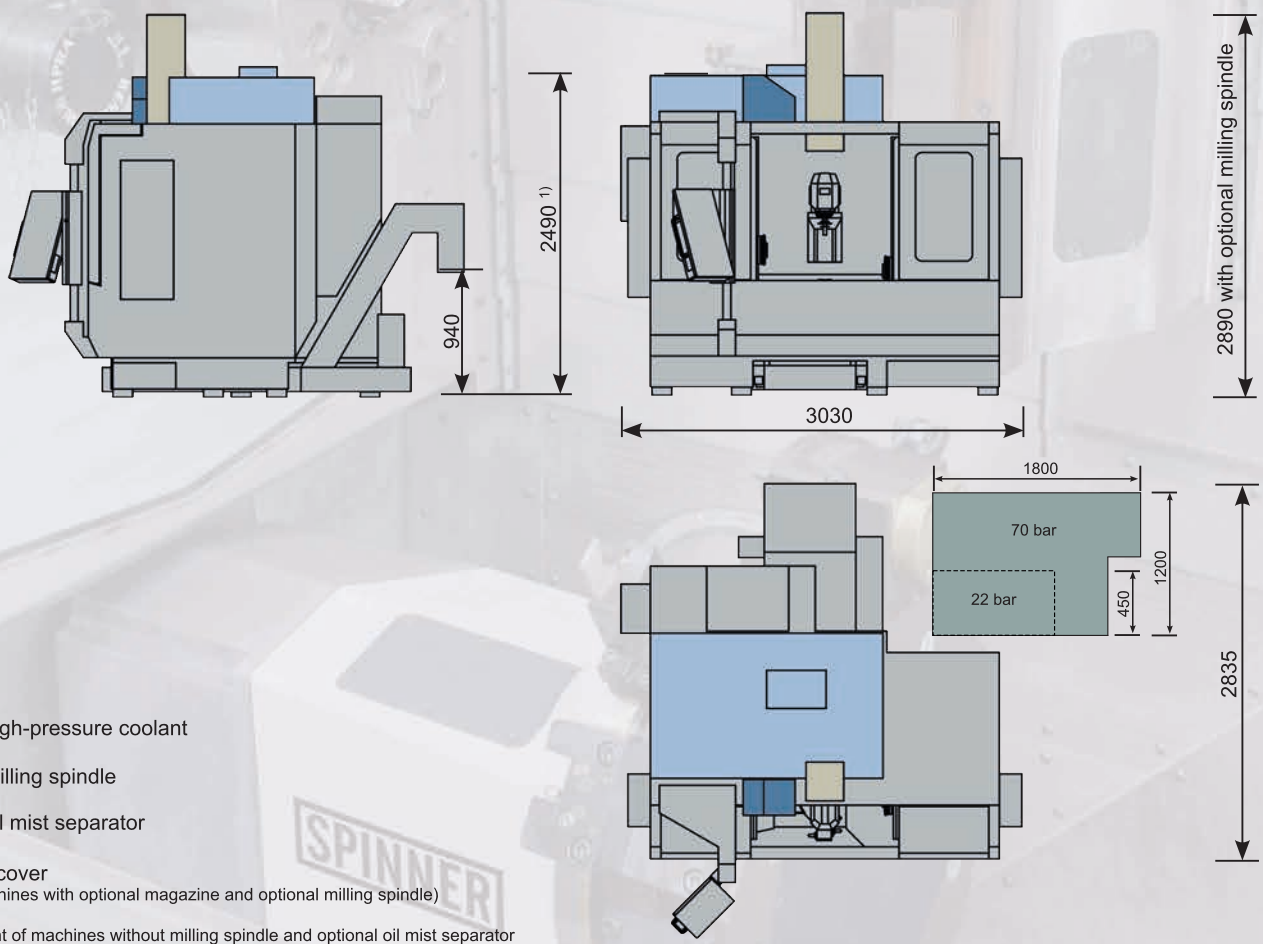
Other options on demand

Single-spindle machine



- Optional high-pressure coolant
 - Optional milling spindle
 - Optional oil mist separator
 - Magazine cover
(only for machines with optional magazine and optional milling spindle)
- 1) Max. height of machines without milling spindle and optional oil mist separator

Double-spindle machine



- Optional high-pressure coolant
 - Optional milling spindle
 - Optional oil mist separator
 - Magazine cover
(only for machines with optional magazine and optional milling spindle)
- 1) Max. height of machines without milling spindle and optional oil mist separator



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