

**SPINNER**

# MICROTURN

Micro-finishing AND complete precision machining



Mechanical Engineering

Made in Germany

[www.spinner.eu.com](http://www.spinner.eu.com)  
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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

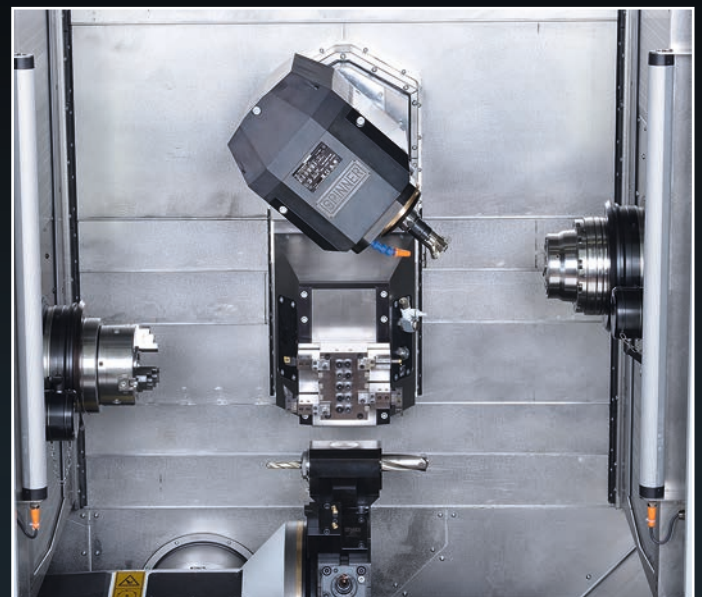


The machining concept of the micro-finishing centre can be completed by a turret with Y axis in the lower area of the workspace and optionally by a Y slide with a pivoting spindle (B axis) in the upper area of the workspace for universal machining. A sub-spindle is also available.



## LTB-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

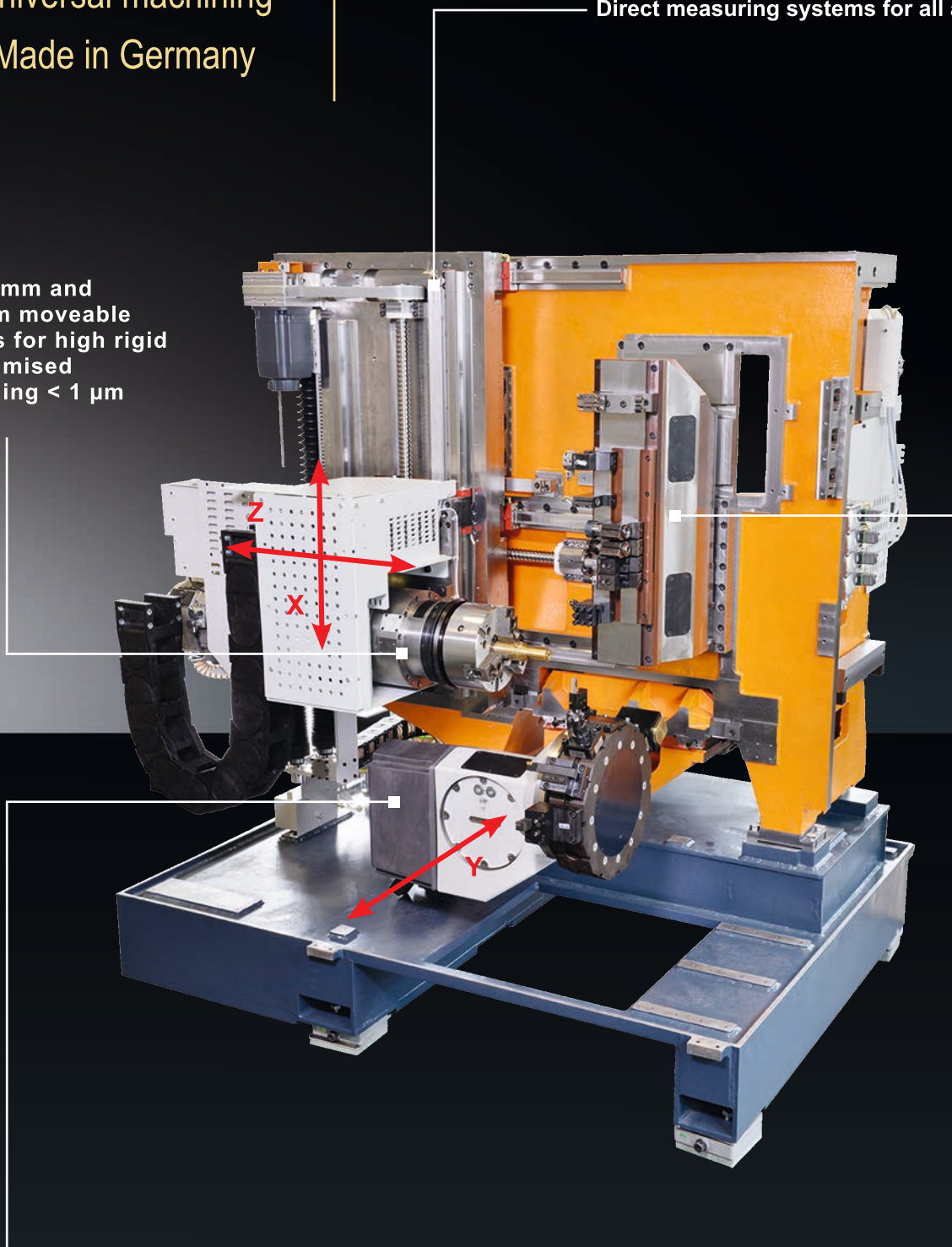


With this, our SPINNER MICROTURNS combines a micro-finishing and hard-turning centre, optionally with the possibility of a complex Turning-Milling Centre WITHOUT loss of any precision.

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  $\mu$ 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

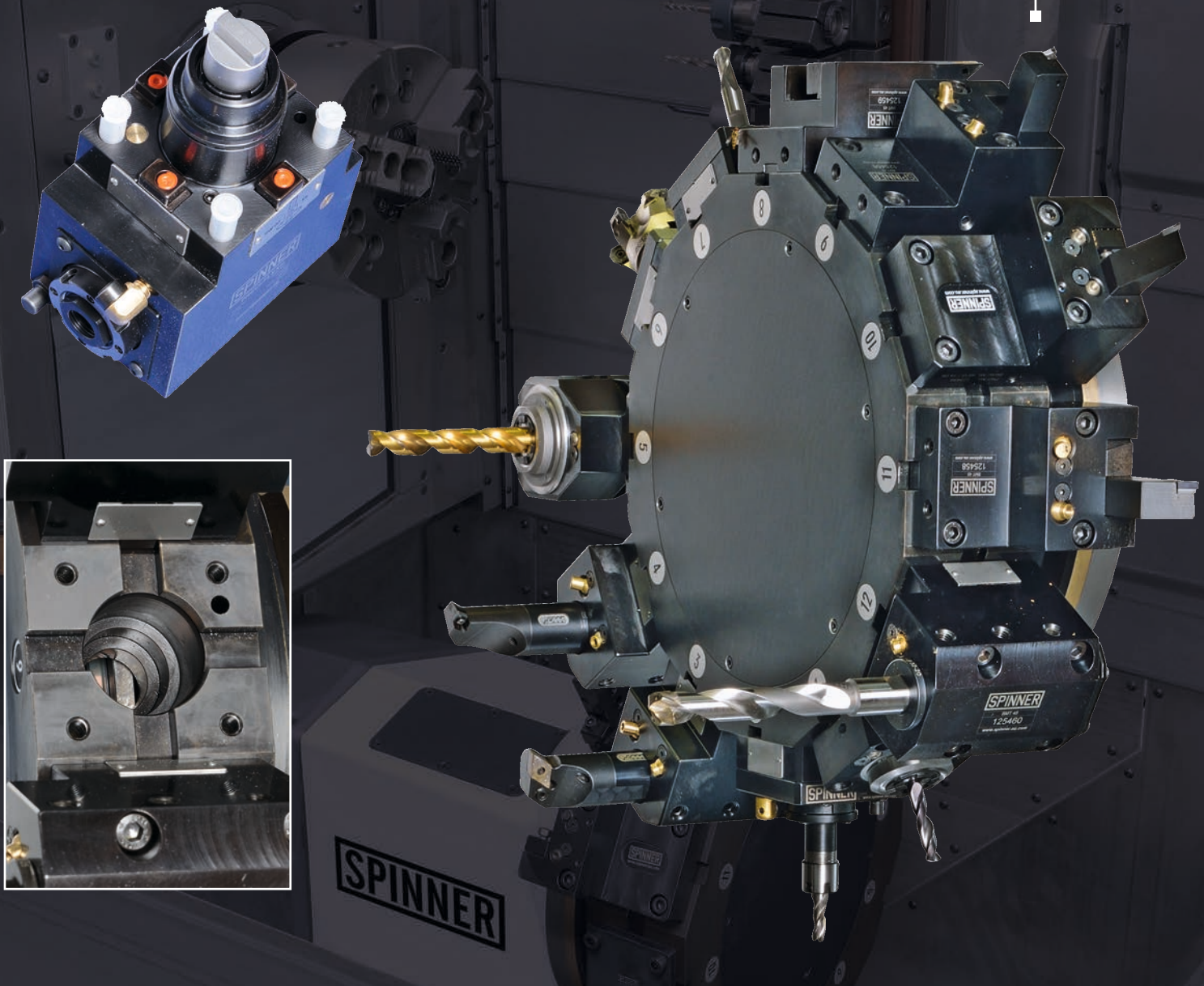
Easy access of automation

## 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

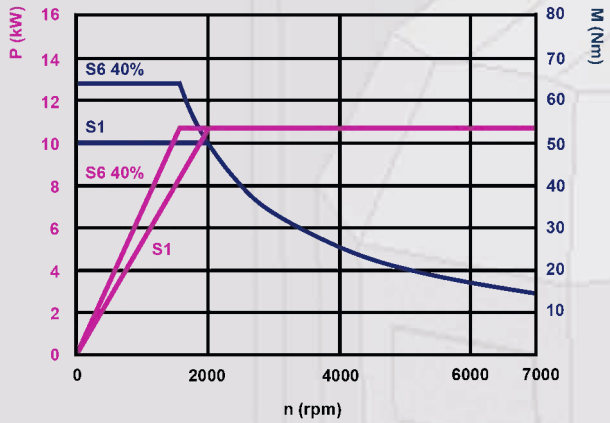
- High toolholder exchange precision
- No adjustment is required
- High stiffness
- Higher turning and milling performance



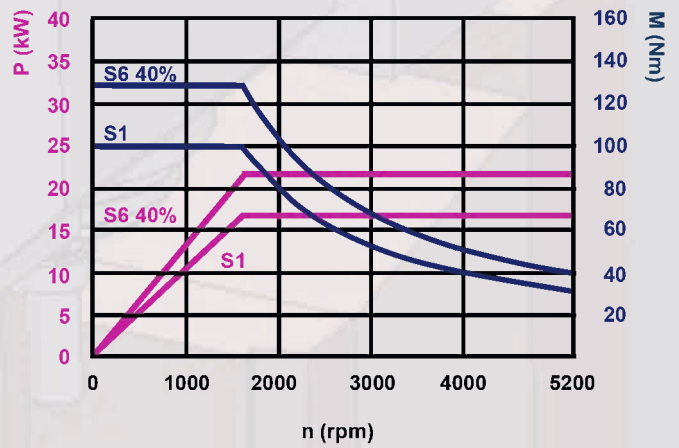
Working area	Microturn 36	Microturn 52
Swing diameter	608 mm (23.9")	
Max. turning diameter	~ 150 mm (~ 5.9")	
Max. turning length	~ 250 mm (~ 9.8")	
X / Z axis	600 / 350 mm (23.6" / 13.8")	
Y1 / Y2 axis	+50 / -50 mm (+1.9" / -1.9")	
<b>Axes</b>		
Rapide traverse X / Y / Z	24 / 15 / 24 m/min (944.9 IPM / 590.6 IPM / 944.9 IPM)	
<b>Turning spindles</b>		
Max. spindle speed	7,000 rpm <sup>1)</sup> / 10,000 rpm <sup>2)</sup>	5,200 rpm <sup>1)</sup>
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%) <sup>3)</sup>	22 kW (S6 / 40%) <sup>4)</sup>
Torque	64 Nm (S6 / 40%) <sup>3)</sup>	130 Nm (S6 / 40%) <sup>4)</sup>
<b>Milling spindle</b>		
Max. spindle speed	12,000 rpm	
Tool holder	HSK40	
Performance	15 kW (S6 / 40%) <sup>5)</sup>	
Torque	17 Nm (S6 / 40%) <sup>5)</sup>	
<b>Turret</b>		
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%) <sup>6)</sup>	
Torque	13.6 Nm (S3 25%) <sup>6)</sup>	
<b>Tool magazine</b>		
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")	
<b>General indications</b>		
Dimensions (L x W x H) <sup>7)</sup>	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) <sup>8)</sup> / Starting from 7,700 kg (16,975.6lbs) <sup>9)</sup>	

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

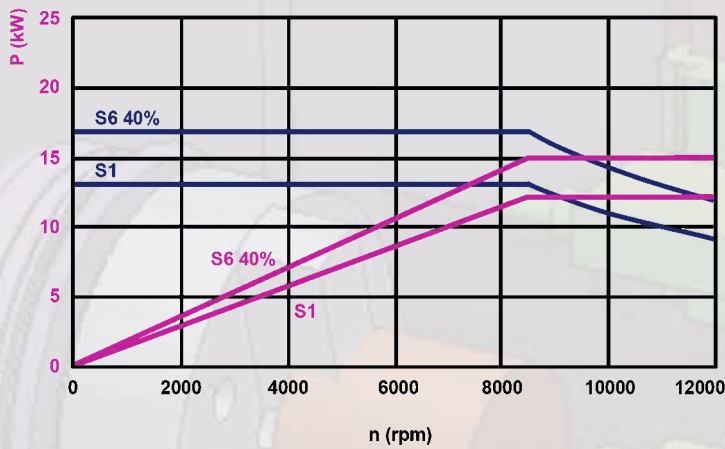
Turning spindle Microturn 36 7,000 rpm



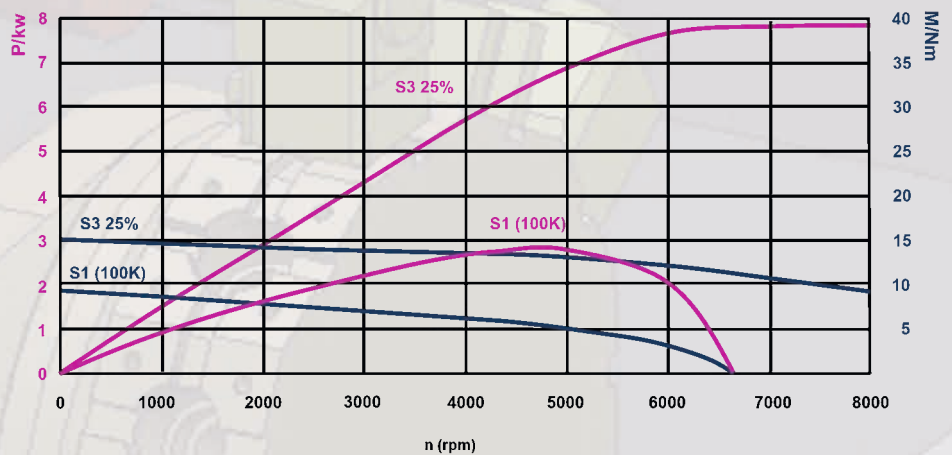
Turning spindle Microturn 52 5,200 rpm

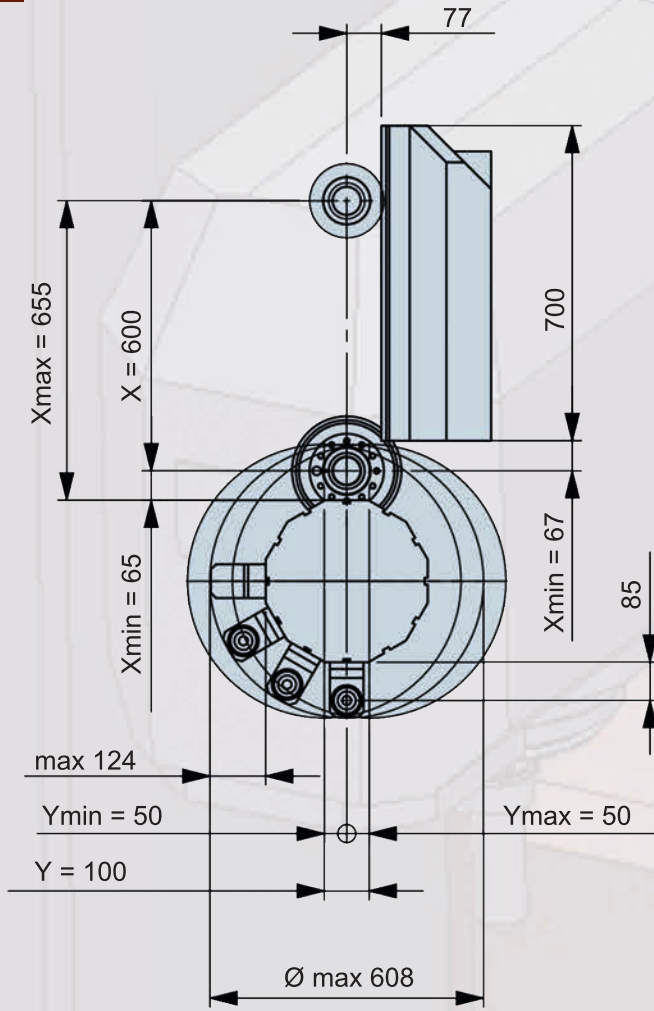


Milling spindle 12,000 rpm

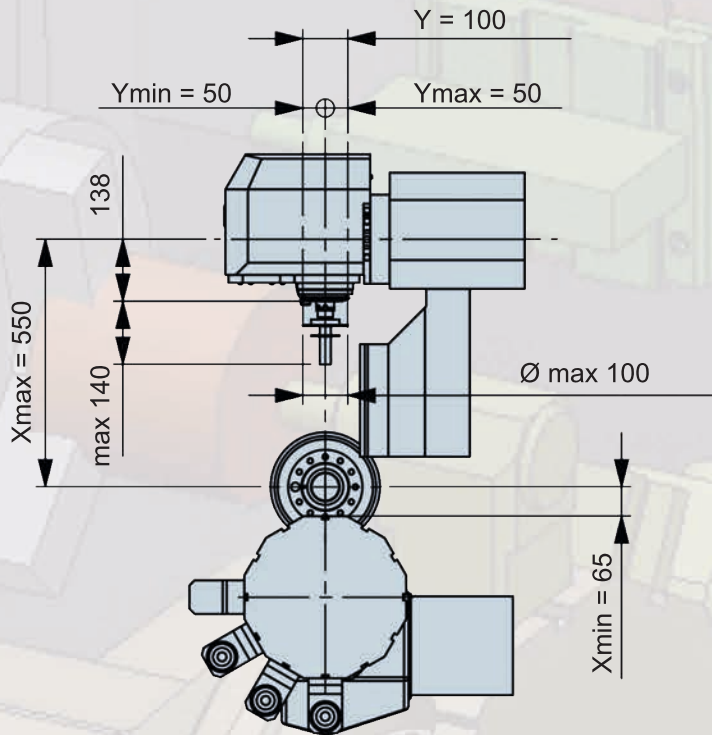


Driven tools (turret)



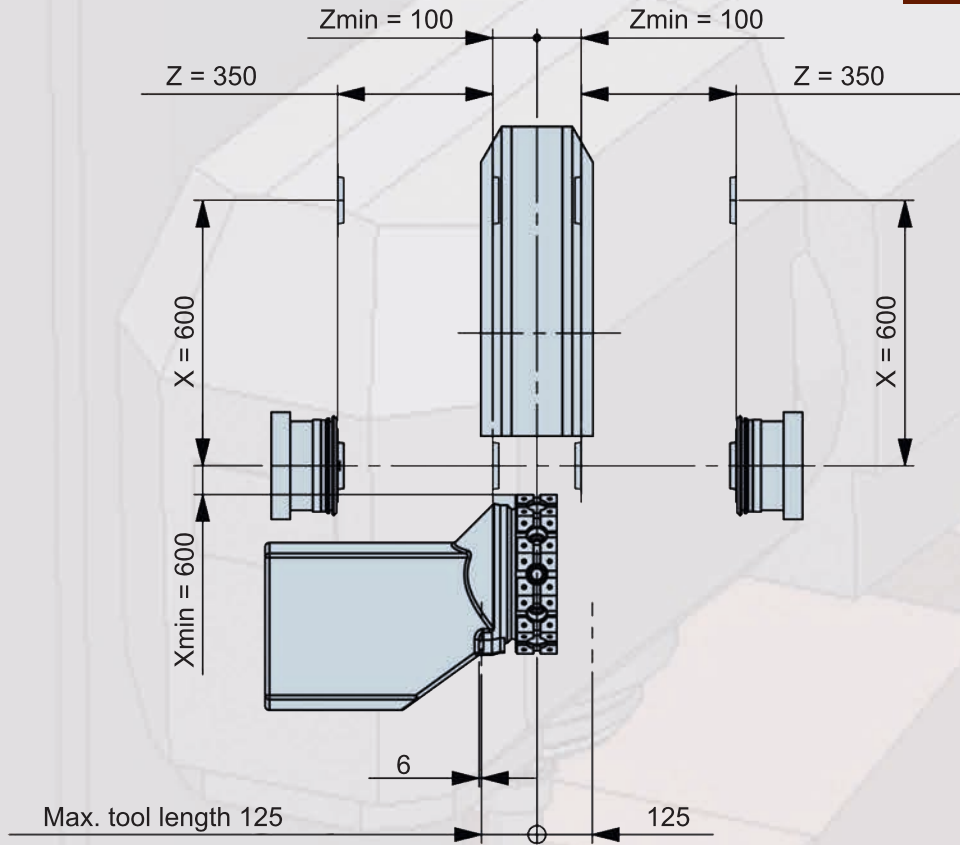


LT-Version

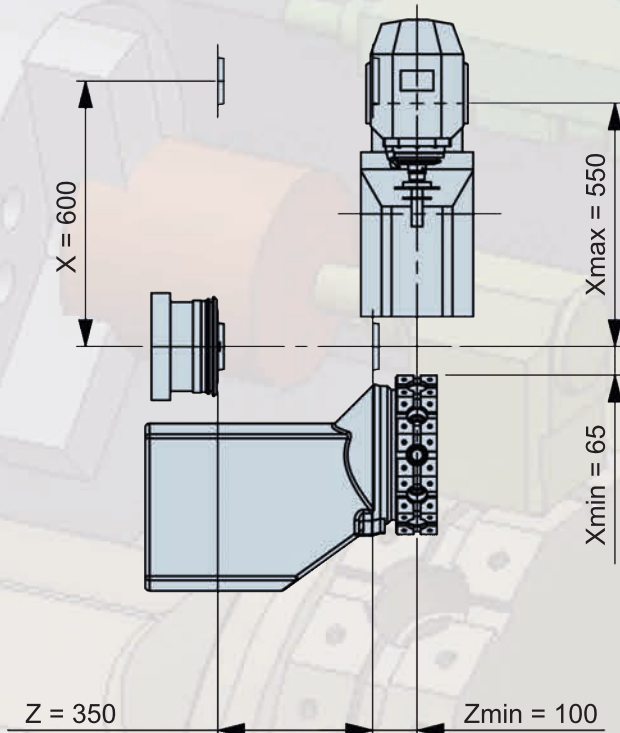


LTB-Version

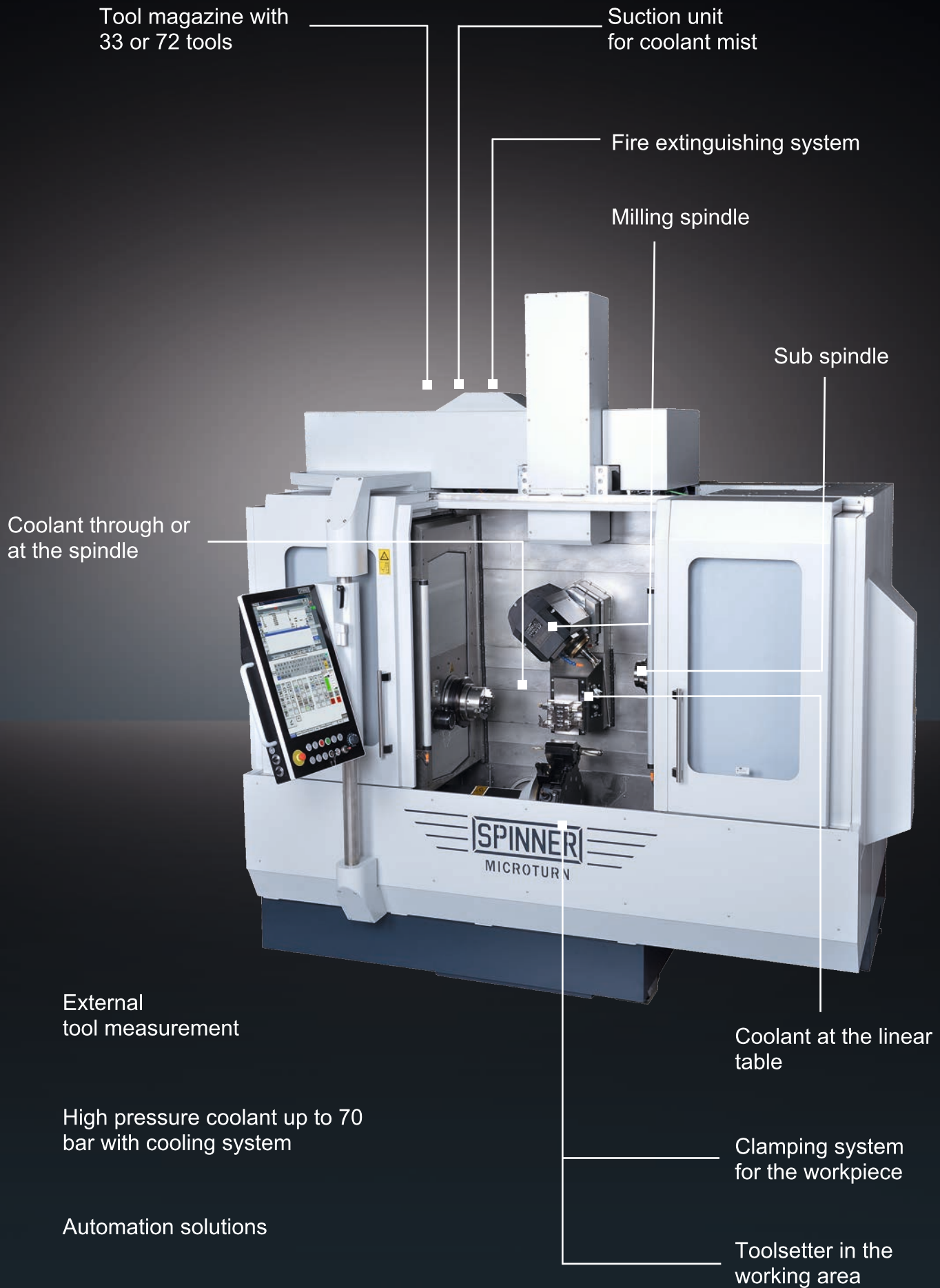




LT-Version

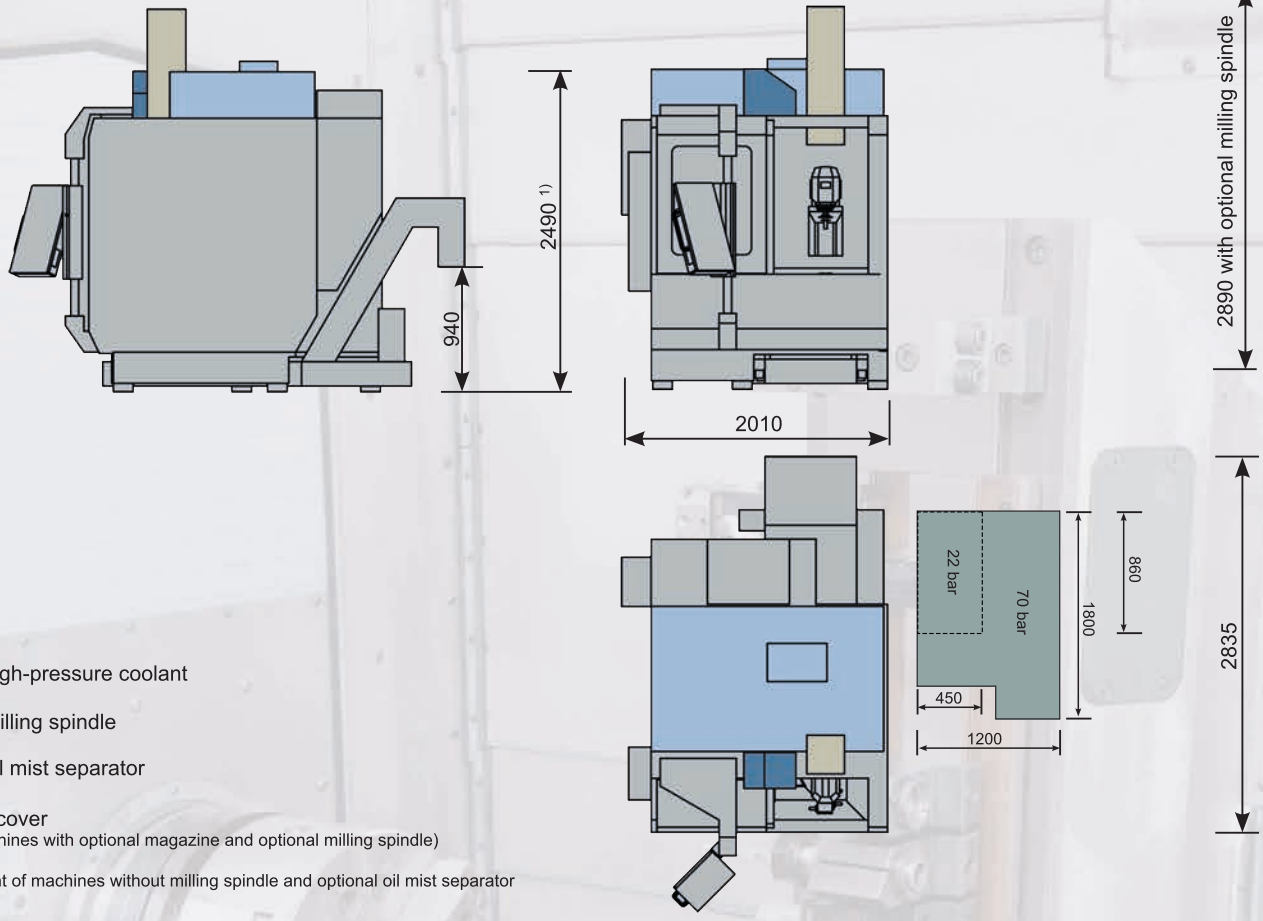


LTB-Version



Other options on demand

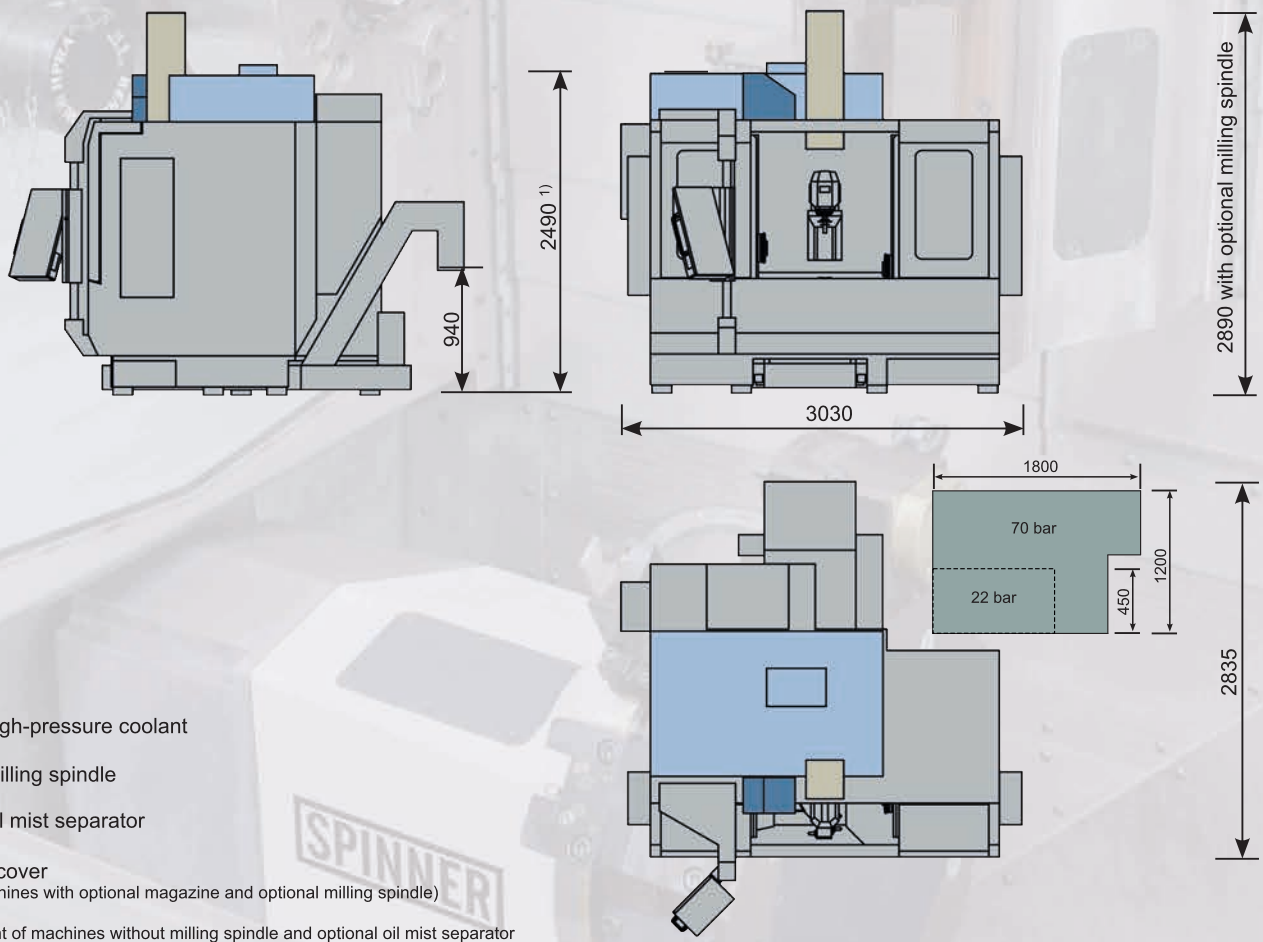
Single-spindle machine



- 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



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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