

SPINNER

MICROTURN

Compact

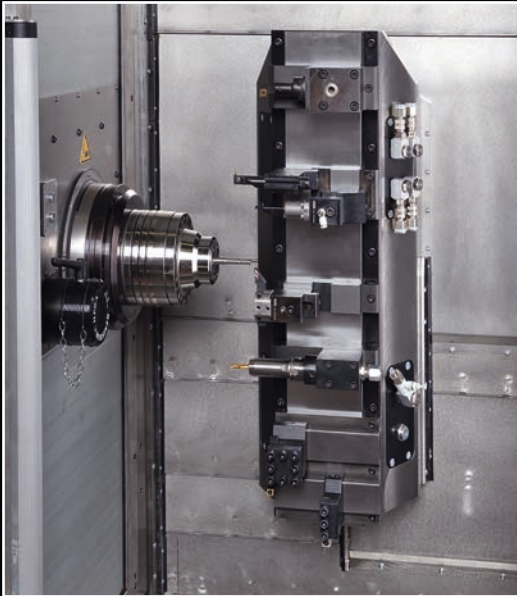
Ultra-High-Precision Turning for the
Most Challenging Applications



Mechanical Engineering

Made in Germany

www.spinner.eu.com
sales@spinner.eu.com



L-Version

Equipped with gang style linear tool table

The gang style linear tool table provides short strokes and fast machining. Resulting in best rigidity and precision for high volume production, and challenging applications. Dual movement spindle with repeatable sub-micron positioning accuracy, and minimal thermal growth. Ultra-precision Integrated motor-spindle capable of up to 10,000 rpm, with optional low-pressure clamping system for very sensitive parts.

R-Version

Equipped with gang style linear tool table and turret

Indexing turret positioned high in the work area, ideal for universal applications. Available with or without driven-tools. Below the turret, the gang style linear tool table provides additional capacity for rigid bolt-on tooling. Vertical machine bed design provides optimal chip management and component protection, especially when working with challenging and abrasive materials.

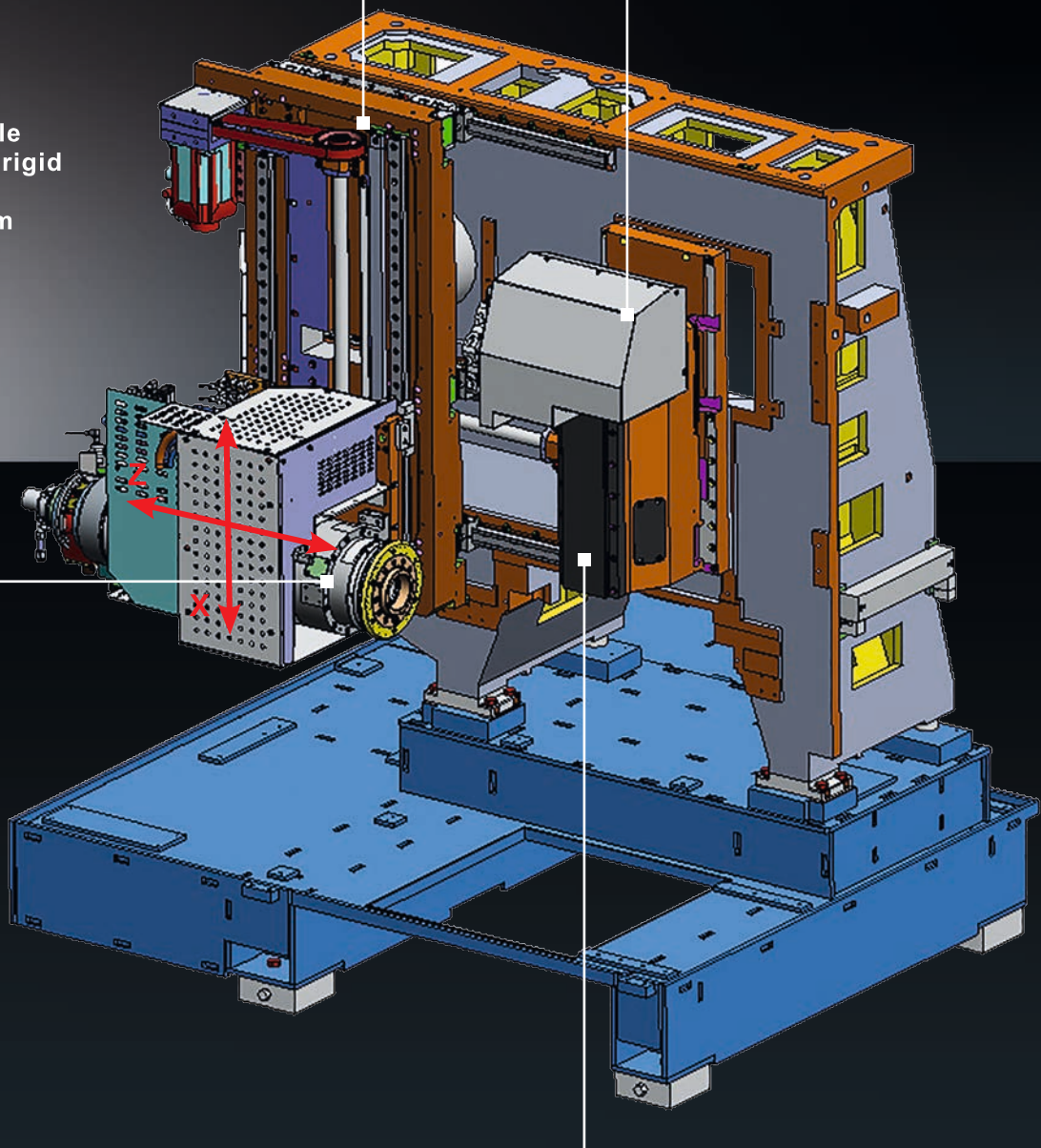


Micro-finishing
Hard-turning
Diamond-turning
Made in Germany

Direct measuring systems for all axes

Turret with 8 tools VDI20 without tool drive
Turret with 16 tools VDI16 with tool drive

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



Static linear table for standard linear tooling or special tools

Machine Highlights

Large panoramic window to the workspace

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

Chip conveyor as standard



Latest control system: Siemens SINUMERIK ONE with Spinner Touch panel 4.0

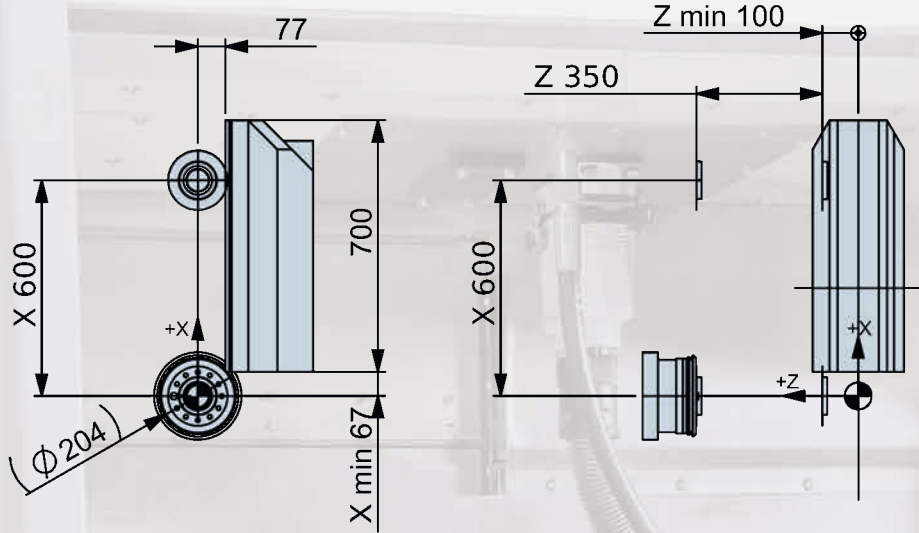
Operating panel adjustable in height and angle

Perfect free chip fall

Easy access of automation

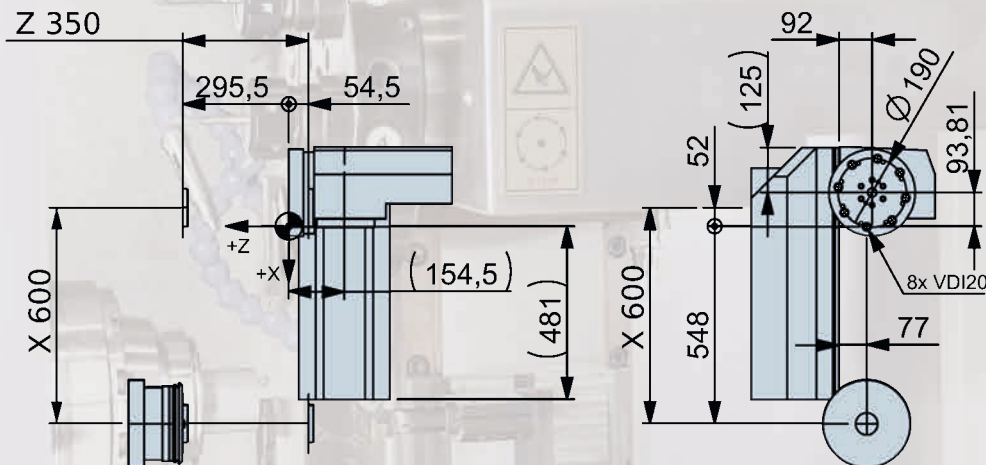
L-Version:

Equipped with gang style linear tool table



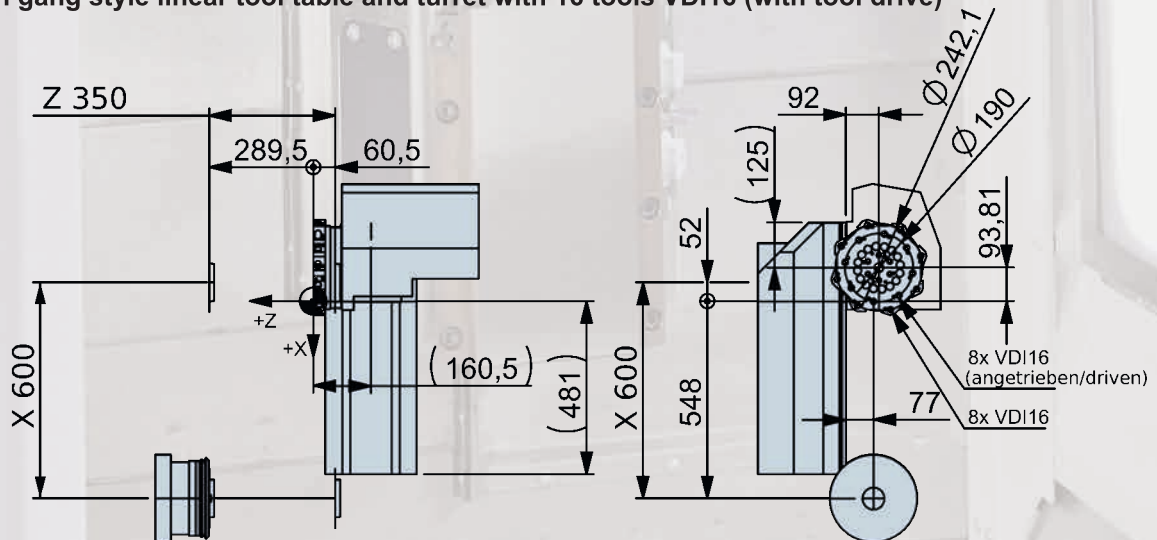
R-Version:

Equipped with gang style linear tool table and turret with 8 tools VDI20 (without tool drive)



R-Version:

Equipped with gang style linear tool table and turret with 16 tools VDI16 (with tool drive)

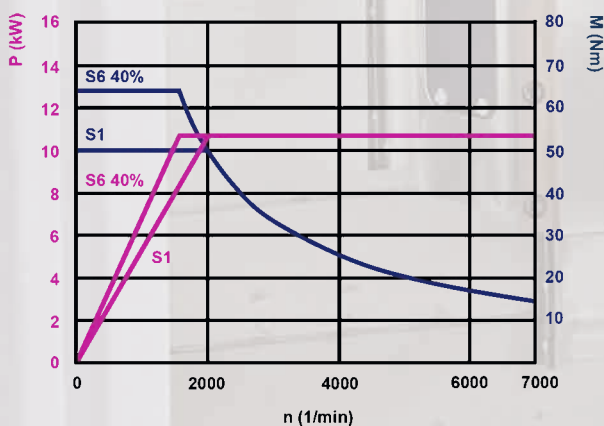


Working area	Microturn 36	Microturn 52
Swing diameter	608 mm (23.9")	
Max. turning diameter	~ 150 mm (~5.9")	
Max. turning length	~ 250 mm (~ 9.8")	
X axis / Z axis	600 / 350 mm (23.6" / 13.8")	
Axes		
Rapide traverse X axis / Z axis	24 / 24 m/min (944.9 / 944.9 IPM)	
Turning spindles		
Max. spindle speed	7,000 rpm ¹⁾ / 10,000 ²⁾	5,200 rpm ¹⁾
Spindle nose	A5	A6
Spindle bore in the push tube	0 / 36 mm (1.4")	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⁾
Turret		
Number of tool stations	8 or 16	
Number of driven tools (option)	8 of a turret with 16 tool stations	
Tool holder	8 x VDI20 / 16 x VDI16	
Max. speed of driven tools	6,000 rpm	
Performance	11 kW (P _{max})	
Torque	23 Nm (M _{max})	
General indications		
Dimensions (L x W x H) ⁵⁾	1,980 x 2,894 x 2,863 mm (77.9" x 113.9" x 112.7")	
Weight	Starting from 5,000 kg ⁶⁾ (11,023.1 lbs)	

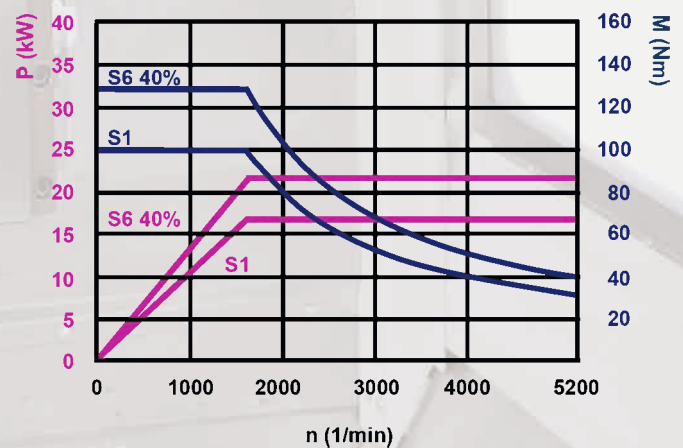
1) Optionally higher spindle speed with hybrid bearings; 2) Hydraulically operated closed-center cylinder without through-hole for bar material; 3) Rated speed 2,000 rpm; 4) Rated speed 1,600 rpm; 5) See floorplan; 6) Net weight of the short machine version: without sub spindle, with linear tool table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

Torque and performance diagrams

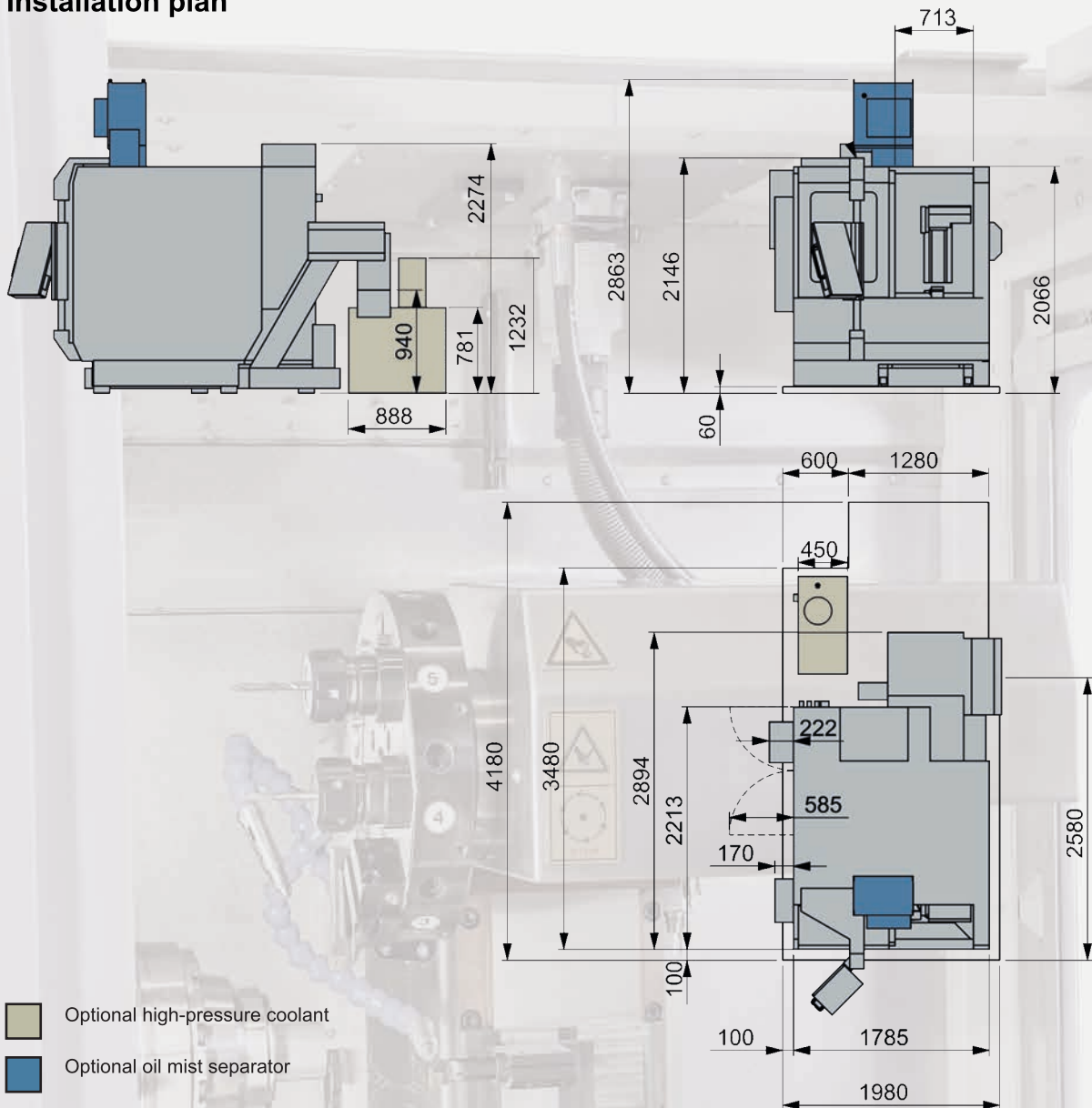
Turning spindle Microturn 36 7,000/10,000 rpm



Turning spindle Microturn 52 5,200 rpm

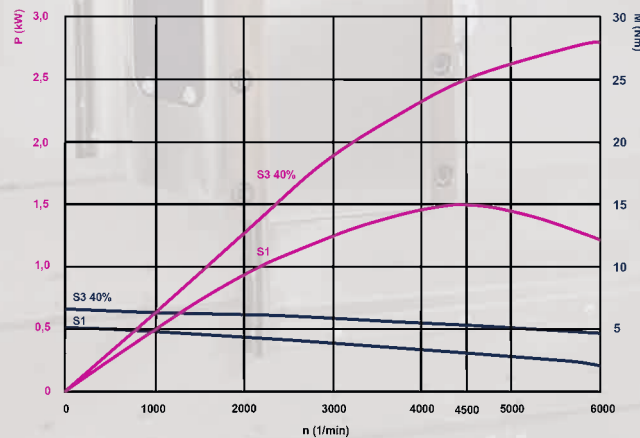


Installation plan



Torque and performance diagrams

Driven tool 6,000 rpm





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

SPINNER Werkzeugmaschinenfabrik GmbH

Rudolf-Diesel-Ring 24

82054 Sauerlach

Tel. +49 (0) 8104 803-0

Fax +49 (0) 8104 803-19

sales@spinner.eu.com



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