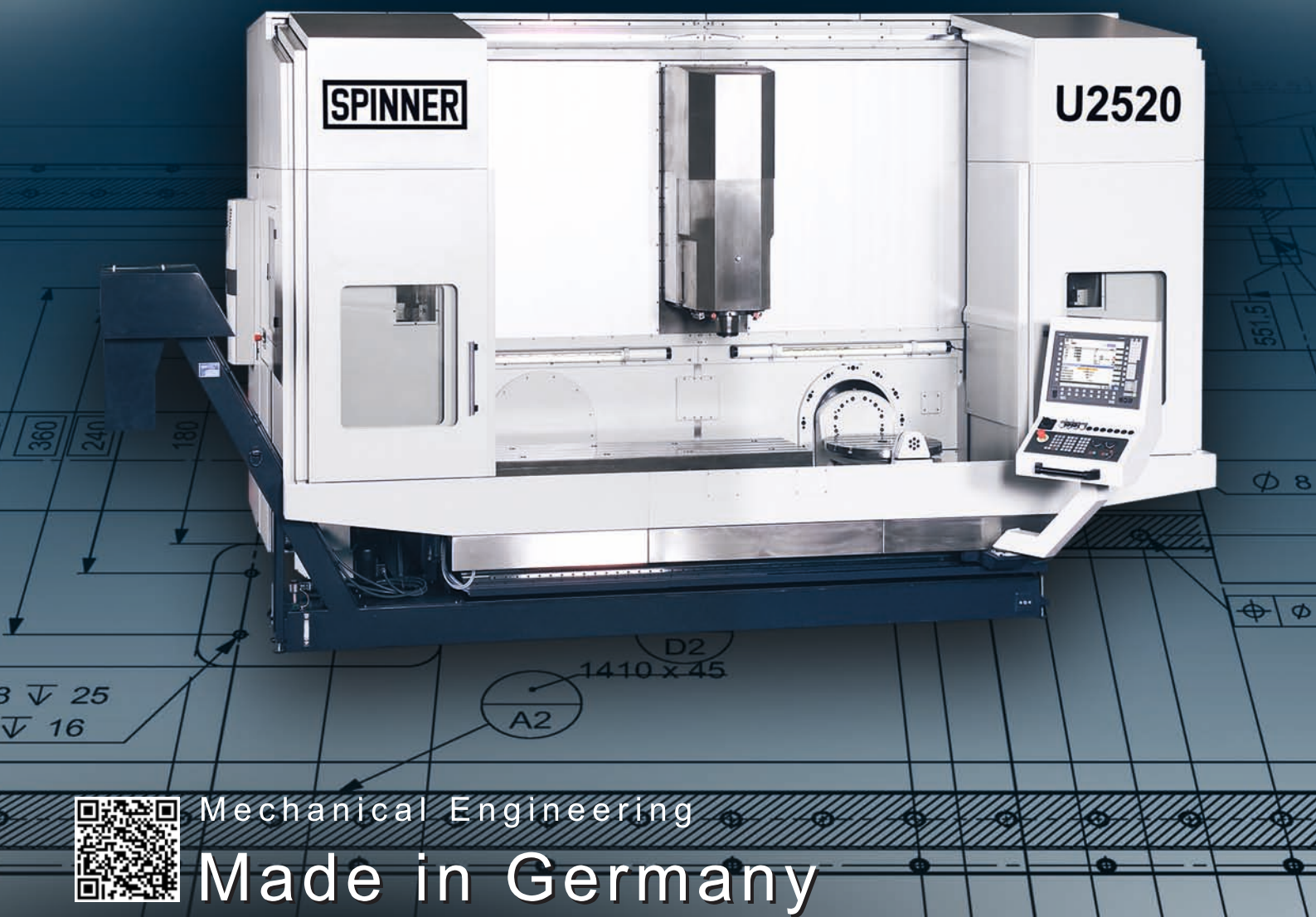


# SPINNER

## U2520

High-Performance Machining Center  
for pendulum machining



Mechanical Engineering

# Made in Germany

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

# Machine Highlights

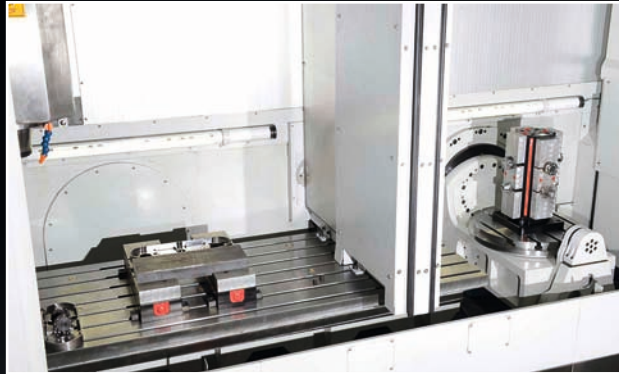
Available in 3 configurations

U3-2520: 3-axes-version with large fixed table

U5-2520: 5-axes-version with integrated rotary/tilting table and fixed table in the left working area

U7-2520: 7-axes-version with a rotary/tilting table in both the left and right working area

All versions also available with single or divided working area  
with dividing wall for pendulum mode

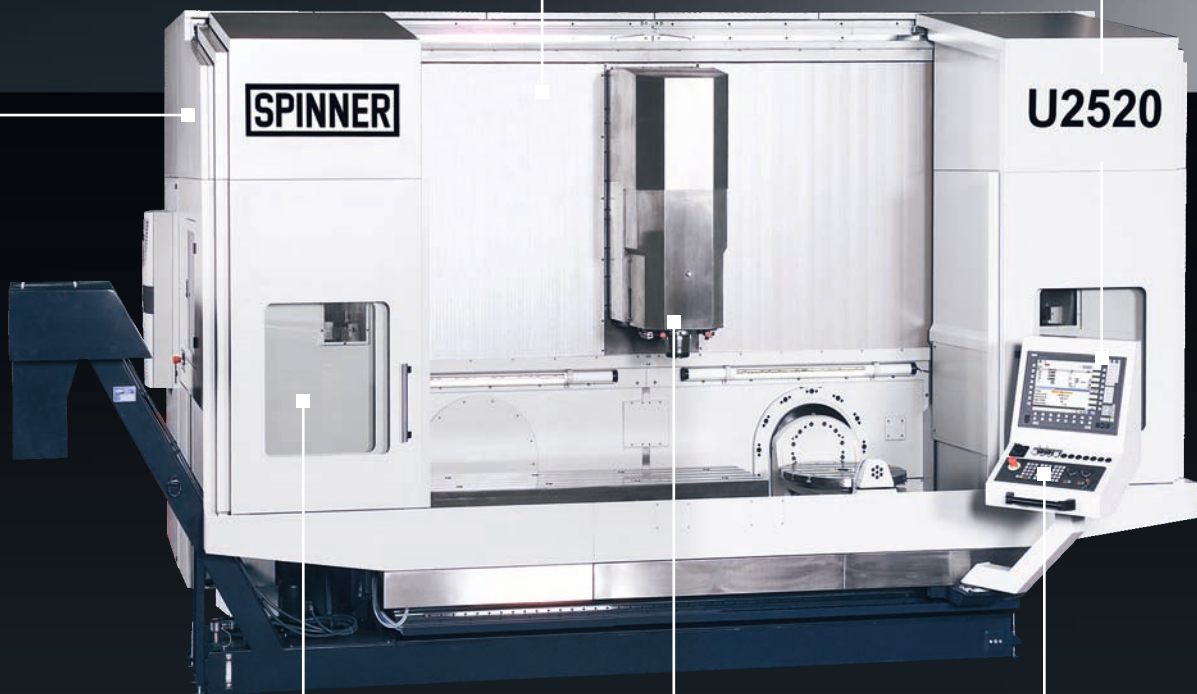


Machining with divided working area



Heidenhain TNC640

Completely enclosed  
working area



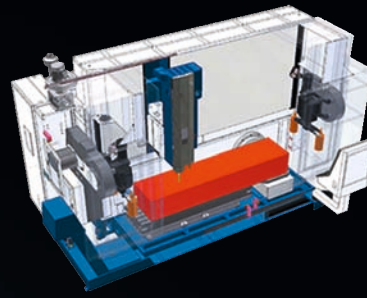
Large panoramic  
window

High spindle  
speeds

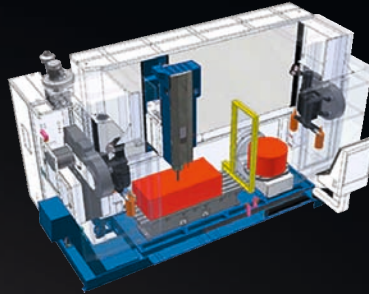
Siemens 840D-SL  
Heidenhain TNC640

# Machine Highlights

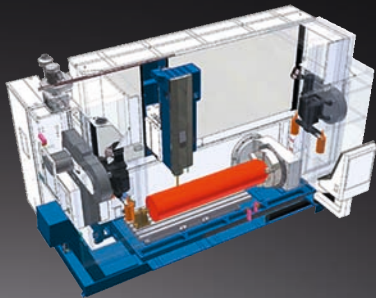
High rigidity  
High spindle speeds  
High rapid traverse  
Highly productive



Machining long workpieces up to 2.500 mm in one long working area



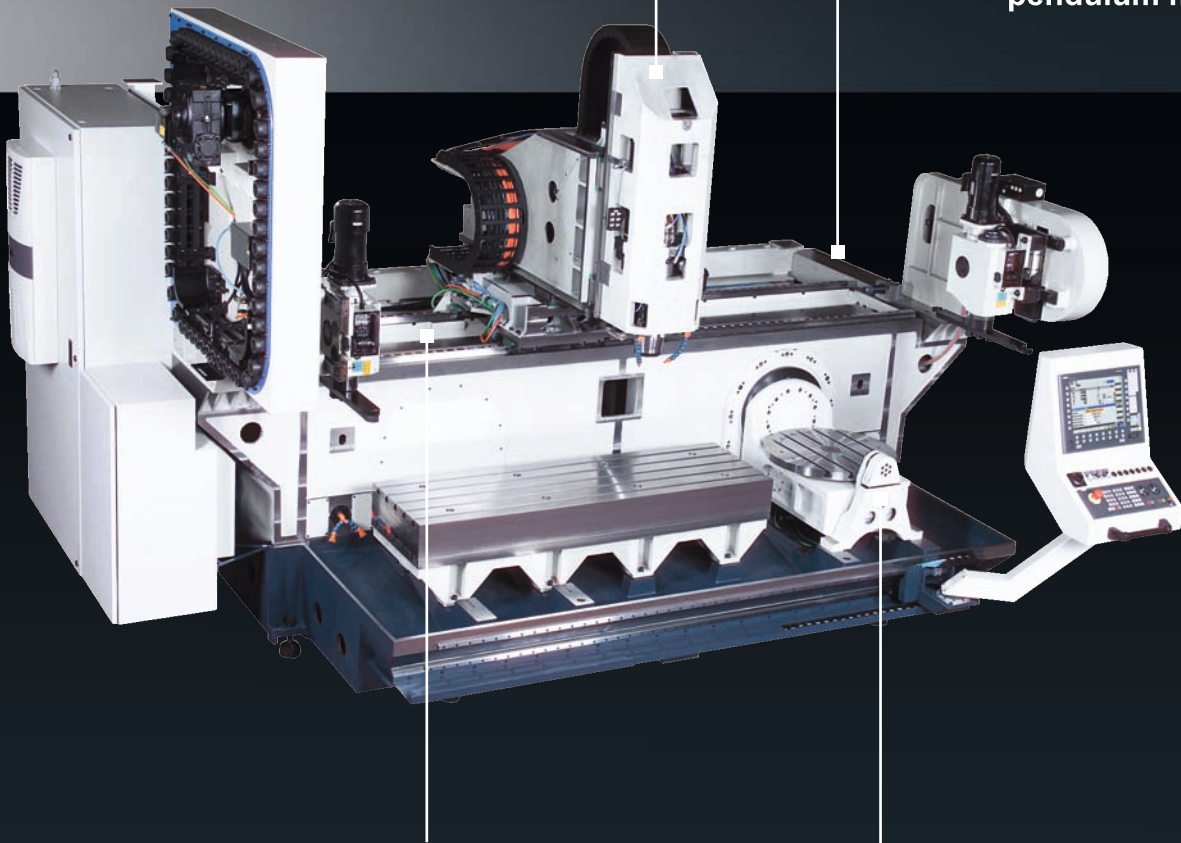
Pendulum mode with a divided working area with fixed table in the left and rotary/tilting table the right working area



Machining the surface of long shafts in a flexible universal machine

Powerful motor spindles  
SK40/HSK63

Optimised full casting design with two tool magazines for pendulum mode

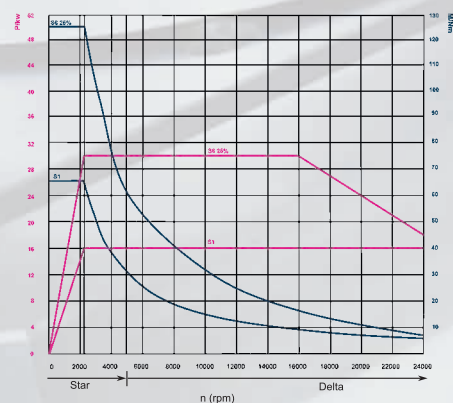
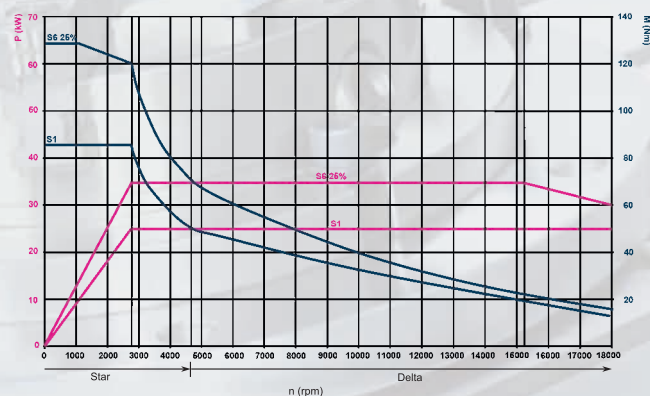
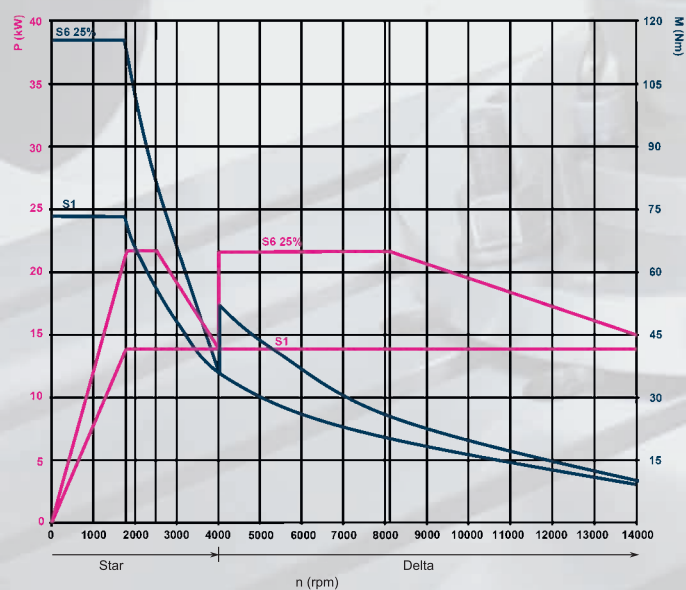


Linear motor in the X axis for high rapid traverse and acceleration

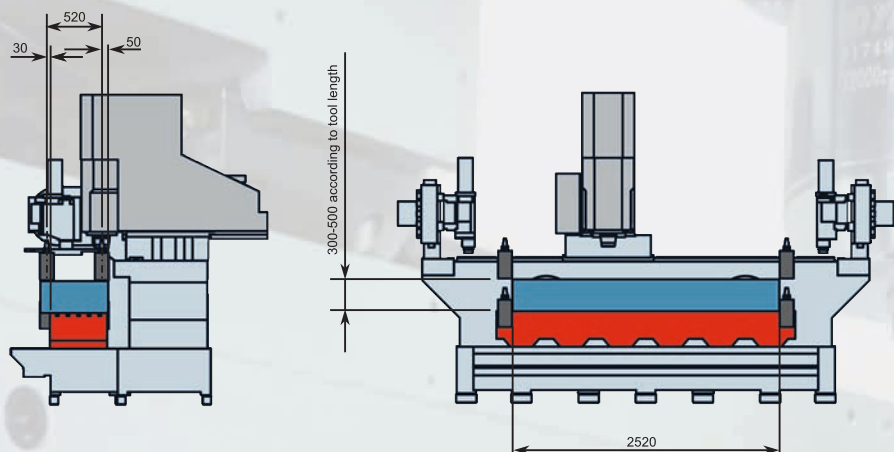
High-precision rotary/tilting table

Working area	U3-2520	U5-2520	U7-2520
X axis	2660 mm		
Y axis	520 mm		
Z axis	460 mm		
Min. distance spindle nose - table surface	See working area plan		
Max. distance spindle nose - table surface	See working area plan		
Table			
Table dimensions	Only fixed table: 2800 x 540 mm	Fixed table: 1800 x 540 mm; Rotary/tilting table: Ø 650 / 545 mm	
Max. table load	3500 kg	Fixed table: 2000 kg; Rotary/tilting table: 500 kg	
T-slots	18H8	18H8	
Axes			
Feed / rapide traverse	48 m/min		
Spindle			
Max. speed	14.000 rpm (optional 18.000 or 24.000 rpm)		
Tool taper	14.000 rpm: SK40; 18.000/24.000 rpm: HSK-A63		
Performance P	14.000: 22 kW; 18.000: 35 kW; 24.000: 30 kW		
Torque M	14.000: 117 Nm; 18.000: 130 Nm; 24.000: 125 Nm		
Tool magazine			
Number of tool stations	2 x 32 (optional 2 x 54)		
Max. tool diameter	76 mm		
In case of free adjacent tool stations	127 mm		
Max. tool length	290 mm		
Max. tool weight	7 kg		
General indications			
Dimensions (L x W x H) <sup>1)</sup>	5040 x 2700 x 3200 mm		
Weight <sup>2)</sup>	~ 14.600 kg (according to equipment)		

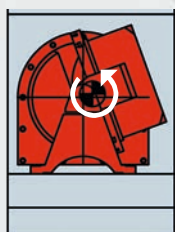
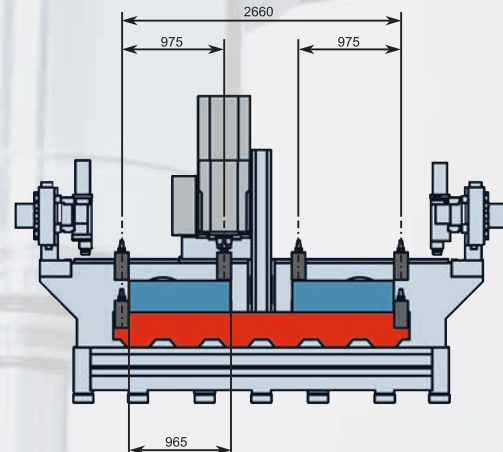
1) See floor plan, 2) Machine net weight with 2 x 32 tool stations magazine



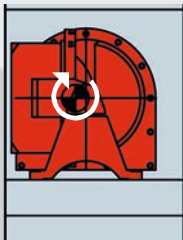
### Single working area



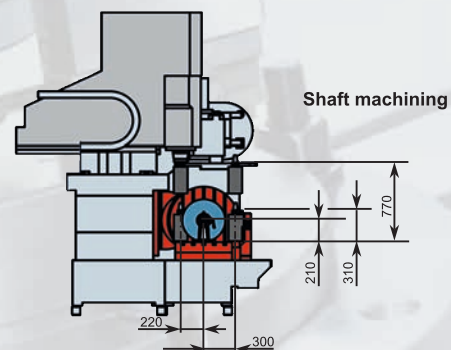
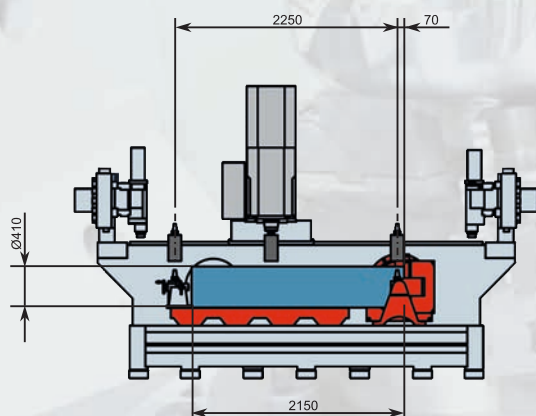
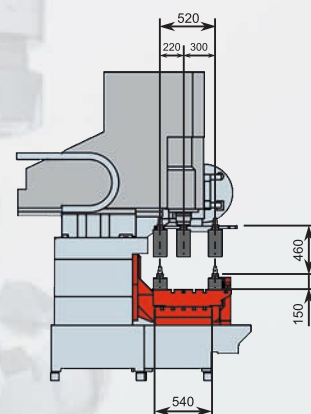
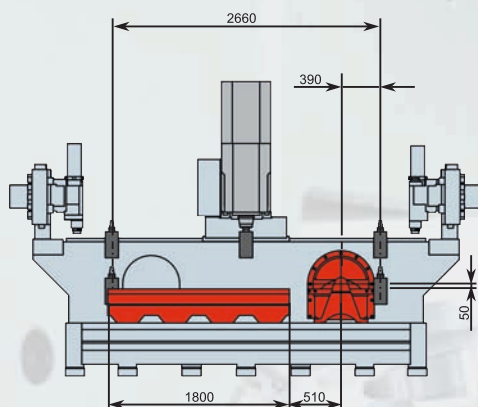
### Divided working area



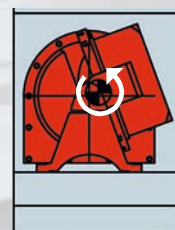
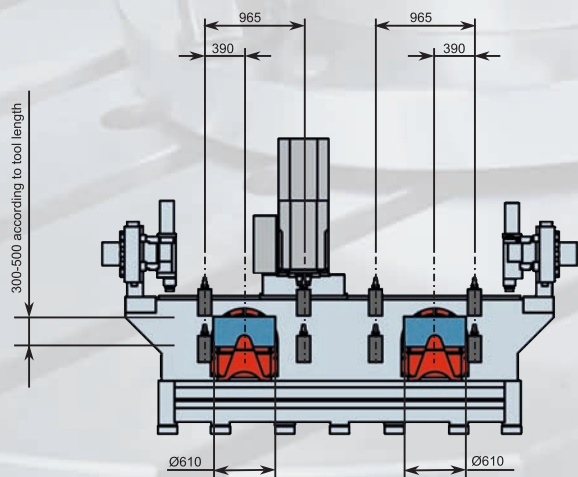
B axis +110°



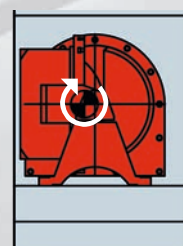
B axis -90°



Shaft machining

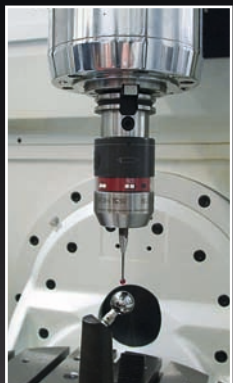


B axis +110°

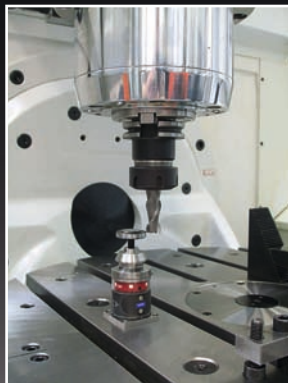


B axis -90°

Probe in spindle for  
workpiece measurement

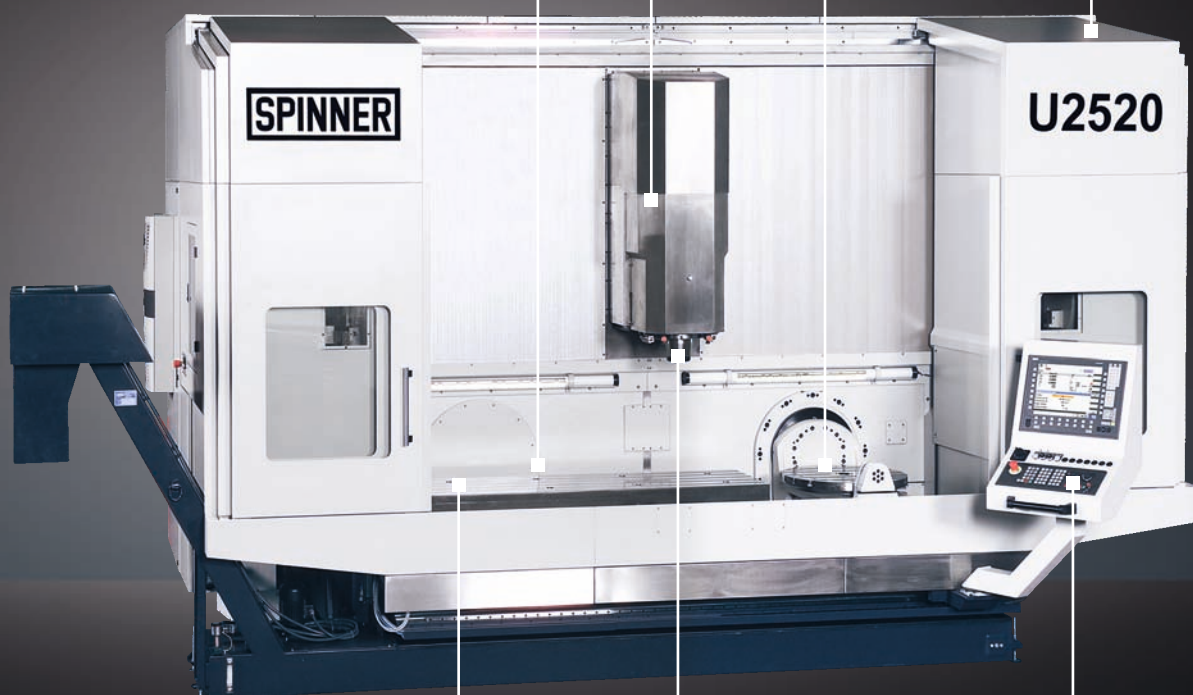


Probe on table for tool  
measurement



Probe on table / Laser  
Probe in spindle

Magazine enlargement  
to 54 tools on left and  
right side



Coolant-air  
changeover

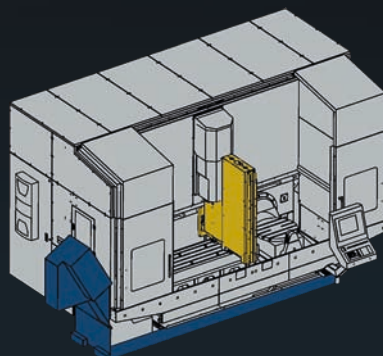
Milling spindle  
18.000 rpm  
24.000 rpm

Siemens 840D-SL  
Heidenhain TNC640

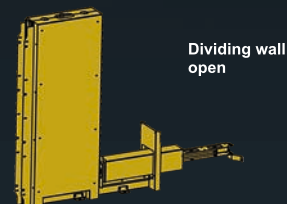
Coolant pistol in  
the working area

Dividing wall

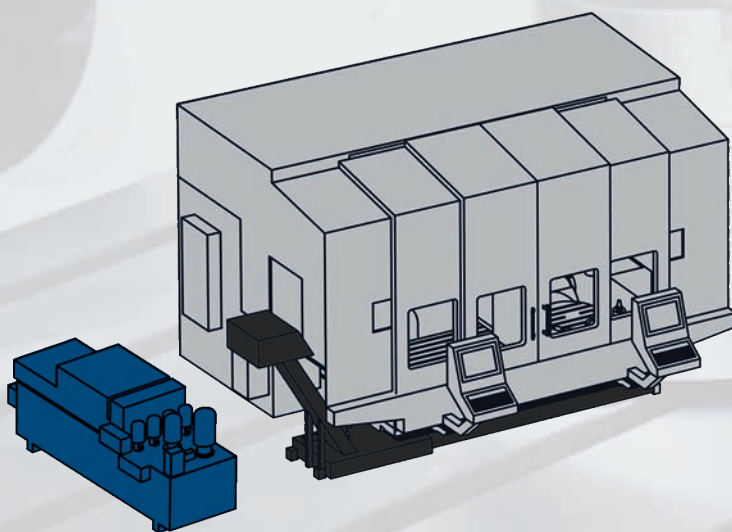
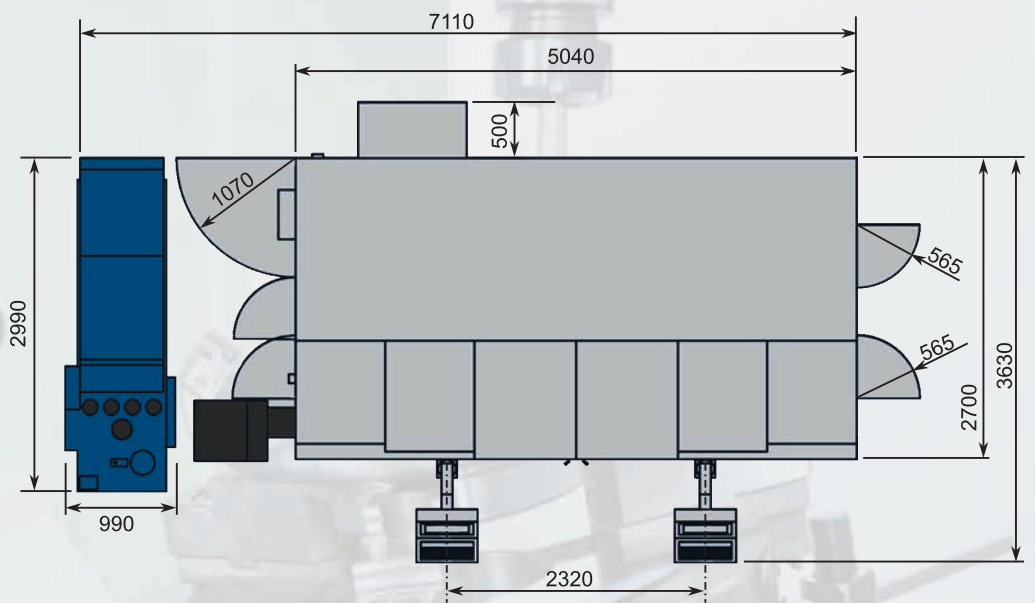
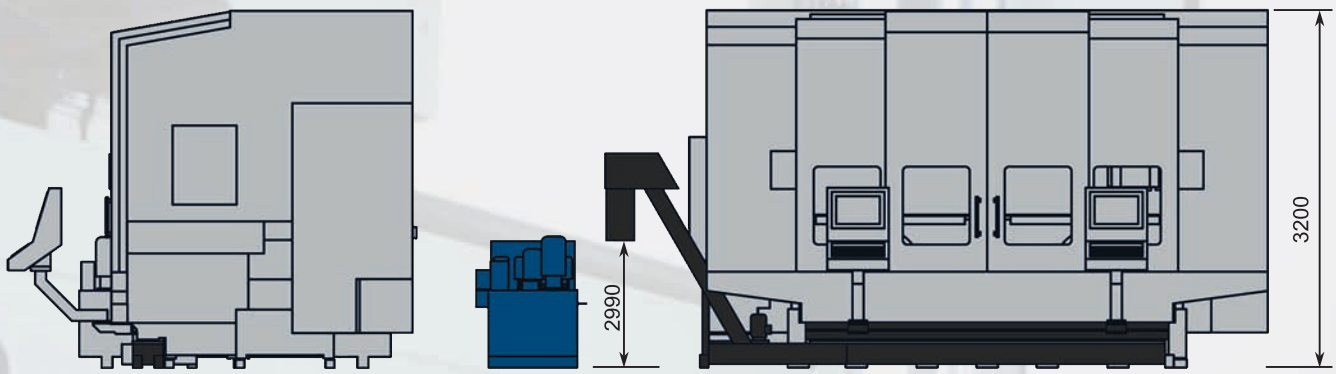
High pressure  
coolant 25/70 bar  
through the spindle



Dividing wall  
closed



Dividing wall  
open



Chip conveyor

High pressure coolant



Werkzeugmaschinenfabrik GmbH



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