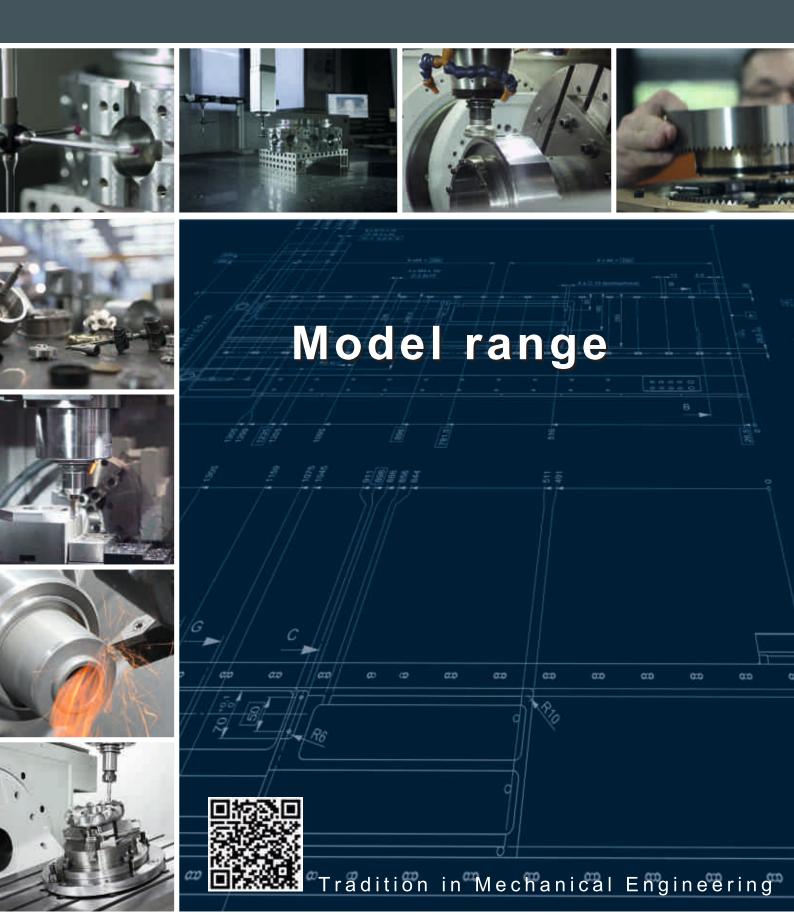


The complete machine range for turning, milling and grinding





PD series:

Ultra-Precision Lathe for micro-finishing and hard-turning

6 Microturn:

Turning-Milling Centre for complete precision machining AND micro-finishing

8 Microturn Grind:

Hard-turning and Grinding centre for micro-finishing

10 TC series:

Powerful Universal Lathe for high cutting performance

12 TTS series:

High Productive Turning Centre for simultaneous machining with up to four turrets

14 U-Compact-Line series:

Travelling-Column Machining Centre with 3, 4 or 5-axes-machining, the entry-level to the superior milling class

16 U-Advanced series:

Travelling-Column Machining Centre with up to 5 axes, for high-end applications in the 5-axes simultaneous machining and the series production

18 VC-3A series:

High-Speed Machining Centre for demanding tasks in the workshop and in tool and mould making

20 VC850-4A/5A series:

Ultra compact 4-/5-axes machining centre

22 VC1650-5A series:

5-Axes Precision Machining Centre for large workpieces

24 Bar feeders:

Specially for SPINNER CNC-Lathes designed barloading system

25 Robobox:

Flexible, low-cost automation

26 Automation:

Integrated standard solutions with robot or individual solution, ALL FROM ONE SOURCE

We have been perfecting and improving our machine tools for more than 70 years. Today, more than 600 employees in the SPINNER GROUP complete more than 1,000 machine tools each year. SPINNER machines are successfully being used in more than 60 countries of the world.

In order to satisfy your requirements, we offer a wide range of Turning Machine and Machining Centre products. Tens of thousands of customers throughout the world trust in our CNC machine tools.

Our machine tools are always used where a particular demand in precision and reliability is required. Innovation and practical solutions in detail are guaranteed by our extensive construction department. We manufacture all important components and assemblies ourselves in our production plants in order to be able to supply you with machine beds, guideways, spindles and turrets that are perfectly matched to one-another.

Our machine tools are sophisticated seriesbuilt products manufactured at a high level. High precision standards in all areas of the production and assembly ensure for the optimum constant quality of our products. Each machine is subjected to a strict final inspection of all parameters.

We supply turnkey projects with automation for large-scale production. In order to ensure that the use of our machine tools is successful, we offer training courses for the operation, programming and maintenance of our systems.

Our service hotline deals with technical queries concerning the programming and repair of your SPINNER machine tools at any time and at short notice.

Place your trust in our products as well and let us know what we can do for you.











Ultra Precision Lathes



- Most compact dimensions among precision turning machines
- Hardened and ground precision sliding guideways with high vibration damping
- 0,1 µm resolution linear scales
- Micro-turning in sub µm-range
- The most precise spindles on the market with roundness < 0,1µm
- Best slide positioning repeatability
- High accuracy process reliability



Turret and sub spindle



Turret and tailstock



Linear tooling



For Micro-finishing and Hard-turning

Wide range of standardized auto-loading available by robots or special made solutions according to customers workpieces, or bar feeder











Part catcher

Model sizes

| | Collets/Chucks | Max. workpiece sizes |
|------|----------------|----------------------|
| PD32 | 32/125 mm | Ø ~120 x 250 mm |
| PD42 | 42/140 mm | Ø ∼120 x 250 mm |



Turning-Milling Centre for complete machining





- In X 600mm and Z 350mm moveable spindles for high rigid and optimised positioning < 1 µm
- Direct measurement system for all axes
- Static linear table for standard linear tooling or special tools
- High precision motor spindles "Made by SPINNER"
- High-precision hard-turning

Linear tooling system for micro-finishing in combination with turret and Y axis for universal machining.

Expandable to a 5-axes Turning-Milling centre for machining all 6 workpiece sides.



Version mit subspindle and B-axis (LTBS-version)



AND micro-finishing



L-VersionSpindle with high precision positioning in X1/Z1 and linear tooling as optimal rigid hard-turning and micro-finishing machine



LT-VersionWith additional turret with driven tools and Y1 axis in the lower part of the workspace



LTB-Version
With additional milling
spindle with Y2 and B axis in
the upper part of the
workspace and with tool
magazine up to 72 tools

Unique combination of universal soft machining up to 5-axes Turning-Milling AND high-precision hard-turning machine in a single machine concept.

LTBS-Version

With two spindles on symmetrically positioned slides X2/Z2, also for simultaneous machining with subspindle (see picture on page 6 below)

Strokes

| | X-axis | Y-axis | Z-axis | B-axis | Turret |
|----------------|--------|-----------|--------|----------|------------|
| L-Version | 600 mm | - | 350 mm | - | - |
| LT-Version | 600 mm | +/- 50 mm | 350 mm | - | 12 x BMT45 |
| LTB(S)-Version | 600 mm | +/- 50 mm | 350 mm | +/- 180° | 12 x BMT45 |



Hard-turning and Grinding centre for micro-finishing



Unique combination of universal soft and hard-turning offering the possibilities of both an external and internal cylindrical grinding machine.

The picture opposite shows the Microturn Grind as a double spindle machine with transfer from spindle 1 to spindle 2 and simultaneous machining on both sides. Also available as a single-spindle machine. Also available with automation.



Sample workpiece

- Partial or pre-machining by hard-turning
- Shortened grinding time thanks to pre-machining with minimum stock oversize allowance
- Automatic dressing functions for grinding wheels
- Extensive grinding cycles programmed in the dialog
- Complete machining using both technologies in one operation

Hard-turning operation on left-hand workpiece spindle Simultaneous internal grinding operation on right-hand spindle





Single spindle or two spindles



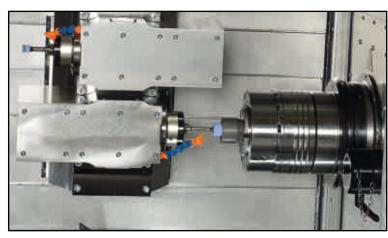
External grinding with powerful grinding spindle in angular plungecut, also suitable for face grinding of shoulders.

With integrated automatic balancing unit and CNC dressing device.

Also for polygon grinding of out-of-round contours.

Up to two high-performance internal grinding spindles up to 90,000 rpm with alignment to the left or right spindle as desired.

Enormous reductions in internal grinding times are achieved by preturning to a minimum stock oversize allowance.



| | Microturn Grind 1 spindle | Microturn Grind 2 spindles |
|-------------------------------|---------------------------|----------------------------|
| Number of spindles | 1 | 2 |
| Grinding wheel outer diameter | 400 mm | 400 mm |
| Typical max. workpiece size | D120 x L120 mm | D120 x L120 mm |
| Number of turret stations | 12 x BMT45 | 12 x BMT45 |



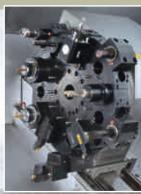
Powerful Universal Lathes





- Hardened and ground sliding guideways for best vibration damping
- Solid sliding guideways with high damping
- Monoblock rigid casting design of machine body
- Tailstock or sub spindle
- Optional Y axis and driven tools
- Modern motor spindles (up to 85 mm)
- Gearboxes for high torques (from 110 mm)
- Latest control system Siemens 840D or Fanuc 32i





Turret VDI50 of TC800-MC



Y axis fully integrated in the machine bed



Turning length from 400 up to 1500 mm















Model sizes

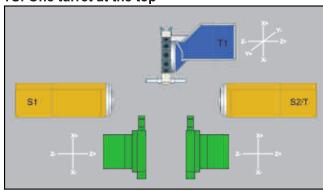
| | Bar material up to | Chucks | Max. Turning length |
|--------|--------------------|--------------------|---------------------|
| TC300 | 52/65 mm | 160/210 mm | 350 mm |
| TC400 | 52 mm | 160/210 mm | 500 mm |
| TC600 | 65/85 mm | 250 mm | 650 mm |
| TC610L | 65/85 mm | 250/315 mm | 1250 mm |
| TC800 | 85/110/175 mm | 250/315/400/500 mm | 900-1500 mm |



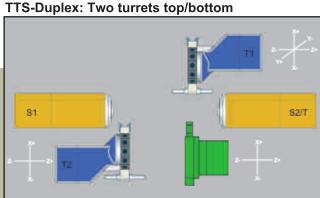
Simultaneous machining from bar material or with automation



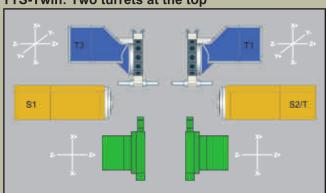
TS: One turret at the top

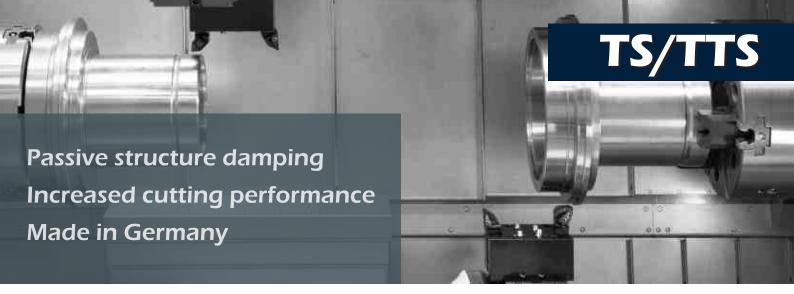


- THE productive turning solution for bar machining or with automation
- Reduction of cycle time by simultaneous operations with up to 4 turrets
- Two Y-axes in the TRIPLEX-Version and QUADREX-Version
- Each turret can work either on the main spindle or on the sub spindle
- Increased cutting performance by integrated passive vibration damping
- Perfect covers for guideways
- Integrated motor spindles with water cooling
- Spindle bore 42/65/85/125 mm
- Chips falling perfectly straight downward
- Rigid turret "Made by SPINNER" with high-precision toolholders BMT



TTS-Twin: Two turrets at the top

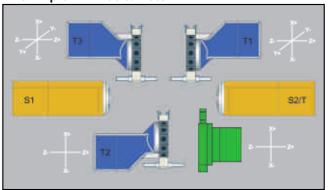




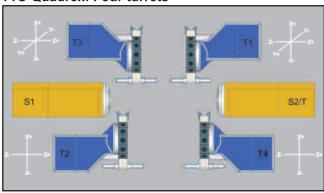
For complex turning AND milling parts

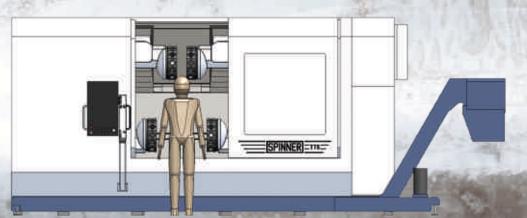


TTS-Triplex: Three turrets



TTS-Quadrex: Four turrets





TTS-Quadrex

Top model with four simultaneously operating turrets for high productivity in both bar and chuck machining.



Universal Machining Centre

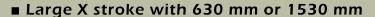


U630 Compact available in 3 configurations

- U3-630 Compact:3-axes-version with fixed table
- U4-630 Compact: 4-axes-version with large rotary table
- U5-630 Compact: 5-axes-version with integrated rotary/tilting table







- Both side bearing for tilting-axis
- THE entry-level machine for 5-axes machining







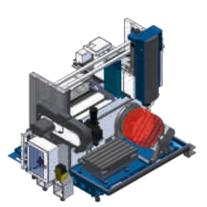


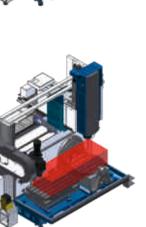
Dynamic
Optimal access
Flexible use

The entry-level machine for 5-axes machining

U1530 Compact available in 3 configurations

- U3-1530 Compact: 3-axes-version with large fixed table
- U4-1530 Compact: 4-axes-version with large rotary table and fixed table on left side in the working area
- U5-1530 Compact: 5-axes-version with integrated rotary/tilting table and fixed table on left side in the working area



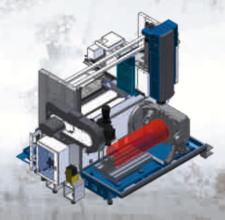












Strokes

| | X axis | Y axis | Z axis | B axis |
|-------|---------|--------|--------|------------|
| U630 | 630 mm | 530 mm | 465 mm | +110°/-90° |
| U1530 | 1530 mm | 530 mm | 465 mm | +110°/-90° |

U-Advanced



Professional 5-axes machining Highly dynamic Compact and sealed

Travelling-Column Machining Centre

U1530 available in 3 configurations

- U3-1530: 3-axes-version with large fixed table
- U4-1530: 4-axes-version with large rotary table and fixed table on left side in the working area
- U5-1530: 5-axes-version with integrated rotary/tilting table and fixed table on left side in the working area





U5-1530 with Siemens 840D-SL and 24-inch Touch panel

- With high-precision rotary/tilting tables available with weight compensation
- Extendable up to 122 tools
- Available with pallet changer
- Most modern control systems: Siemens 840D-SL or Heidenhain TNC640
- With most modern digital drives
- Spindle speeds up to 20.000 rpm









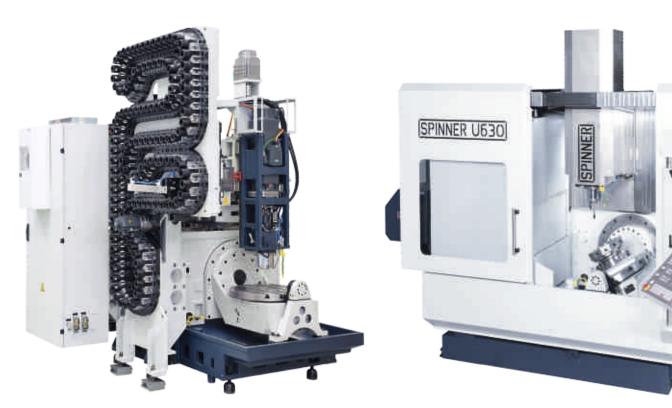




For High-End applications

U630 available in 3 configurations

- U3-630: 3-axes-version with fixed table
- U4-630: 4-axes-version with large rotary table
- U5-630: 5-axes-version with integrated rotary/tilting table



U5-630 with Heidenhain TNC640





High-Performance Machining Centre





Video VC850

- Full cast design with fixed column
- Mass optimised slides for high rapid traverse
- Large sized linear guides and high dynamics
- Spindle speeds between 8,000 und 24,000 rpm

(according to the application)







For tool and mould making and HSC machining





- Innovative guideway cover concept
- Small distance to the working table
- Adjustable control panel
- FEM optimised cast structure

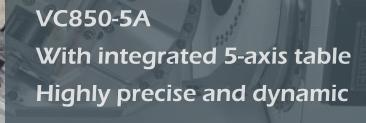
Cast structure VC1650



Strokes

| | X axis | Y axis | Z axis |
|-----------|---------|--------|--------|
| VC750 | 760 mm | 460 mm | 460 mm |
| VC850 | 850 mm | 510 mm | 510 mm |
| VC1150 | 1150 mm | 620 mm | 600 mm |
| VC1650-3A | 1650 mm | 820 mm | 820 mm |

VC850-4A/5A







Siemens ONE



Heidenhain TNC640



Heidenhain TNC620



Model VC850-4A

With integrated 4th axis and counter bearing support via the clamping rocker.

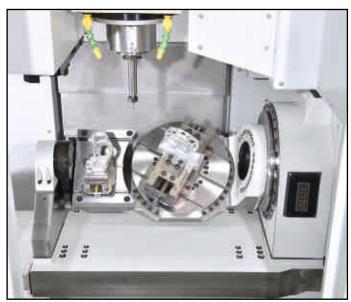
For multiple clamping processing in series production.



Model VC850-5A

With integrated 2-axis rotary/tilting table.

For 5-axis machining.
With additional rigid clamping table next to the rotary axis.
For workpieces up to D=350 x L300 mm.



| | VC850-4A | VC850-5A |
|--------------------------------------|-------------------|-------------------|
| Strokes X/Y/Z | 850/510/510 mm | 850/510/510 mm |
| Spindles | 12.000/18.000 rpm | 12.000/18.000 rpm |
| 4th axis with rocker | X | |
| 4th/5th axis as rotary/tilting table | | X |



5-Axes High-Precision Machining Centre





- New and patent-registered guideway cover concept
- Ideal for heavy workpieces
- Additional fixed table for 3-axes machining
- Optimal chip disposal by means of 4 worm conveyors
- Up to 138 tools in the tool magazine







Ergonomic operating panel adjustable in height and angle



For large workpieces







- Additional fixed table on the right side in the workspace
- Small distance to the working table





Strokes

| | X axis | Y axis | Z axis | Pivot axis B in the milling head |
|-----------|---------|--------|--------|----------------------------------|
| VC1650-5A | 1650 mm | 820 mm | 820 mm | -1°/+110° |



Short bar feeders



■ For material up to 1200 mm

■ Max. bar diameter 80 mm / 110 mm / 125 mm



| | Servo 80-1500 | Servo 110-1500 |
|-----------------|---------------|----------------|
| Max. bar length | 1500 mm | 1500 mm |
| Bar diameter | 6-80 mm | 8-110 mm |



- Available for almost all SPINNER machines
- Suitable for loading lathes and machining centres
- Can be flexibly positioned as a BOX in front of or next to the machine
- Safely closed for temporary manual operation









- 5 storage drawers
- For workpieces weighing up to 2 x 4 kg or, respectively, 8 kgs
- Programmed in dialog via masks without special knowledge
- Everything from a single source: SPINNER





Fully automated production solutions for large-scale production



Your advantages at one glance

- Increase in productivity
- Cost reduction
- Optimal processes for your machining requirements
- All with certification according to CE









FROM ONE SINGLE SOURCE, SPINNER and SPINNER-Automation



- Most modern digital drive systems
- **■** Convenient dialogue programming
- With special clamping devices and tools

Ask us for your solution!











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

Version 9/2023 (EN)