TC6002

Machine Highlights

Latest control system: Siemens 840D-SL or Fanuc 32iT

Siemens Operating panel adjustable in height and angle

Ideal for Hard Turning

Available with or without driven tool and Y axis

Small distance between operator and chuck

Compact dimensions for low space requirement

Machining of bars or integrated automation with robotic system

Chip conveyor as standard

Perfect free chip fall

Large panoramic window to the working area

Toolsetter as standard
Modern motorspindles with 65 mm or 85 mm bores

Powerful tool drive in the turret

Rigid SPINNER servo turret with BMT45 or VDI30/VDI40 toolholder

Real Y-axis

Rigid machine base as a one-piece casting

CNC tailstock or subspindle

Hardened and ground sliding guideways for best vibration damping

Stable
Compact
Dynamic
Universal
Precise

Machine Highlights
Turret technology

- Rigid SPINNER-turret with high milling performance
- Up to 16 tool stations VDI30 or BMT45
- Up to 12 tool stations VDI40

Figure shows turret disc BMT45 and CNC tailstock
Your advantages at one glance when using BMT45 tool holders

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

Fully automated production solutions for large-scale production FROM A SINGLE SOURCE from SPINNER and SPINNER-Automation

Your advantages at one glance

- Increase in productivity
- Cost reduction
- Optimal processes for your machining requirements
- Everything from one source

Ask us for your solution!
Bar feeding system

SPINNER SERVO short bar feeder for feeding bars up to a maximum of 1500mm

SPINNER SERVO bar loading magazine for feeding bars up to a maximum length of 3,2 metres
<table>
<thead>
<tr>
<th>Working area</th>
<th>TC600-65</th>
<th>TC600-85</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing diameter</td>
<td>600 mm</td>
<td>600 mm</td>
</tr>
<tr>
<td>Max. turning diameter</td>
<td>~400 mm</td>
<td>~400 mm</td>
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<tr>
<td>Max. turning length</td>
<td>650 mm</td>
<td>650 mm</td>
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<tr>
<td>X1 / Z-axis</td>
<td>275 / 700 mm</td>
<td>275 / 700 mm</td>
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<tr>
<td>Y-axis (option)</td>
<td>+50 / -40 mm</td>
<td>+50 / -40 mm</td>
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<tr>
<td>Axes</td>
<td>15 / 15 / 24 m/min</td>
<td>15 / 15 / 24 m/min</td>
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<tr>
<td>Spindle 1</td>
<td>4,000 1/min (option 5,000 rpm)</td>
<td>3,400 1/min (option 4,000 rpm)</td>
</tr>
<tr>
<td>Max. spindle speed</td>
<td>4,000 1/min (option 5,000 rpm)</td>
<td>3,400 1/min (option 4,000 rpm)</td>
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<tr>
<td>Spindle nose</td>
<td>A8/DIN</td>
<td>A8/DIN</td>
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<tr>
<td>Chuck diameter</td>
<td>250 mm</td>
<td>250 mm</td>
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<tr>
<td>Spindle bore</td>
<td>65 mm</td>
<td>85 mm</td>
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<tr>
<td>Performance $P_{max}$</td>
<td>34 kW</td>
<td>34 kW</td>
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<tr>
<td>Torque $M_{max}$</td>
<td>325 Nm</td>
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<td>Spindle 2</td>
<td>6,000 rpm</td>
<td>6,000 rpm</td>
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<tr>
<td>Max. spindle speed</td>
<td>6,000 rpm</td>
<td>6,000 rpm</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>Ø110 mm</td>
<td>Ø110 mm</td>
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<tr>
<td>Chuck diameter</td>
<td>165 mm</td>
<td>165 mm</td>
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<tr>
<td>Spindle bore</td>
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<td>42 mm</td>
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<tr>
<td>Performance $P_{max}$</td>
<td>16 kW</td>
<td>16 kW</td>
</tr>
<tr>
<td>Torque $M_{max}$</td>
<td>96 Nm</td>
<td>96 Nm</td>
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<tr>
<td>Turret</td>
<td>16 (VDI30), 12 (VDI40), 16 (BMT45)</td>
<td>16 (VDI30), 12 (VDI40), 16 (BMT45)</td>
</tr>
<tr>
<td>Number of tool stations</td>
<td>all</td>
<td>all</td>
</tr>
<tr>
<td>Number of driven tools (option)</td>
<td>VDI30 / VDI40 / BMT45</td>
<td>VDI30 / VDI40 / BMT45</td>
</tr>
<tr>
<td>Toolholder</td>
<td>VDI30 / VDI40 / BMT45</td>
<td>VDI30 / VDI40 / BMT45</td>
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<tr>
<td>Max. speed of driven tools</td>
<td>6,000 rpm</td>
<td>6,000 rpm</td>
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<tr>
<td>Performance $P_{max}$</td>
<td>16,5 kW</td>
<td>16,5 kW</td>
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<tr>
<td>Torque $M_{max}$</td>
<td>35 Nm</td>
<td>35 Nm</td>
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<tr>
<td>General indications</td>
<td>2800 x 1750 x 2090 mm</td>
<td>2800 x 1750 x 2090 mm</td>
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<tr>
<td>Dimensions (L x W x H)</td>
<td>2800 x 1750 x 2090 mm</td>
<td>2800 x 1750 x 2090 mm</td>
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<tr>
<td>Weight</td>
<td>~5,800 kg</td>
<td>~6,300 kg</td>
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</table>

1) See floorplan
2) Machine net weight SM CY
Main Spindle TC600-65 4.000 rpm

Sub Spindle TC600 6.000 rpm

Driven Tool
Air nozzle for compressed air on main spindle/sub spindle

Clamping force control by differential pressure for main spindle and/or sub spindle

Bar feeder

Automatic door

Coolant pistol in the working area

Part catcher

Steady rest

Clamping system for the workpiece

Glass scale X1-axis / Z1-axis

High pressure coolant pump 15/50 bar for tools with internal coolant supply

Siemens 840D-SL
With Spinner 24-inch Touch panel
Fanuc 32iT
With 15-inch screen

External tool measurement

Suction unit for coolant mist

Fire extinguishing system

Turret disc VDI40 12-position (standard VDI30)
Turret disc BMT45 16-position

Toolholder package BMT45
Toolholder package VDI30/VDI40
Hard turning package for superfinishing

Component measurement by touch probe in turret

Other options on demand
Version with standard chip conveyor

Compact dimensions for low space requirement
Spinner Machine-Tools are working successfully worldwide 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.