CNC Lathe Machines

Numturn TC 500/1500 CNC



SKU : 180296

The Numturn TC series is a CNC box-way lathe designed for machining medium and long workpieces in single-part and small-batch production. All models in the series share the same technical base: a robust box-way construction, the standard electric 8-station VDI30 tool turret, the hydraulic power chuck with hydraulic tailstock quill, and the Siemens 828D control.

- Siemens SINUMERIK 828D control
- 8-station tool turret with VDI 30 mount
- Up to 2,000 mm distance between centers for long workpieces
- Hydraulic 10" power chuck and hydraulic tailstock as standard

TECHNICAL SPECS

WORKING AREA

Center height	250 mm
Turning diameter over bed	500 mm
Turning-Ø over support	290 mm
Turning length (max.)	1.250 mm
Center width	1.480 mm
Bed width	390 mm
Chuck diameter	250 mm

TRAVELS

Travel X-axis	260 mm
Travel Z-axis	1.320 mm

HEADSTOCK

Spindle mount	A2-8
Spindle bore	82 mm
Spindle capacity with draw tube	74 mm
Spindle speed	35 1/min - 2.500 1/min

RAPID FEED

Rapid feed X-axis	4.000 mm/min
Rapid feed Z-axis	8.000 mm/min

TOOLING

Number of tool stations	8 positions
Tool shank dimensions	20 mm x 20 mm
Boring bar mount Ø	25 mm

TAILSTOCK

Tailstock taper	5 MT
Tailstock quill diameter	75 mm
Tailstock quill stroke	150 mm

DRIVE CAPACITY

Main drive, continuous load	11 kW

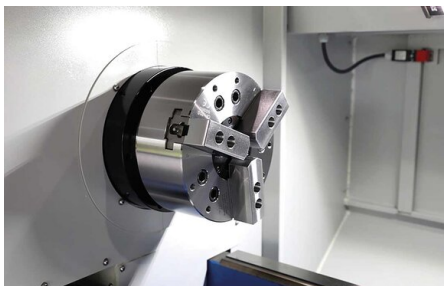
MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	3,8 m x 1,75 m x 1,92 m
Weight	3.415 kg

© 2024 KNUTH Werkzeugmaschinen GmbH. All rights reserved
Published on: 9.11.2026.











PRODUCT DETAILS

Machine Design

- Classic prismatic guideways on the robust flat bed support the carriage over a large surface area and dampen vibration
- The wide dovetail guideway of the cross slide (X-axis) absorbs both compressive and tensile forces positively, enabling precise machining even of demanding contours
- A gib strip also allows the guideway to be precisely readjusted, ensuring positioning accuracy over the machine's entire service life
- The headstock design is based on heavy-duty CNC lathes: the heavily ribbed construction dissipates the forces generated in a targeted way, ensuring low-vibration, process-reliable machining
- The significantly enlarged surface area also improves heat dissipation and ensures stable thermal conditions during continuous operation
- The machine runs gearless, and machining is uninterrupted across the entire speed range
- A central hydraulic system supplies both the power chuck and the tailstock quill (150 mm stroke)
- The enclosure is easily accessible via sliding doors at the front, and additional maintenance flaps make servicing and cleaning easier

Main spindle

- The powerful 11 kW main drive covers a speed range of 35–2,500 rpm, handling both fine contour work and heavy-duty machining
- The infinitely variable speed control continuously adjusts the spindle speed during facing and contour turning, so that the cutting speed can be kept constant across the entire machining diameter
- The large 74 mm spindle bore allows bar stock to be machined through the spindle
- The hydraulic power chuck offers a wide clamping range of 30–254 mm, an 8.8 mm jaw stroke in diameter, and a maximum clamping force of up to 108 kN

Tool Changer

- The standard 8-station VDI30 tool turret is electrically driven and accommodates 20 x 20 mm tool shanks or Ø 25 mm round shanks
- Short tool change times reduce non-productive time and increase productivity in single-part and small-batch production

Tailstock

- The sturdy tailstock can be positioned manually and features a hydraulically actuated quill
- With an MT5 taper, 75 mm quill diameter and 150 mm stroke, it makes loading and unloading workpieces easier

Equipment

- A steady rest and a travelling (follower) rest are included as standard equipment – additional support for long, slender shafts
- The automatic central lubrication system and the coolant system with heat exchanger ensure low-maintenance continuous operation
- The fully enclosed machine housing complies with the KNUTH CE safety package
- Electrical equipment from Schneider Electric, an LED work light and a 3-color signal light are included in the scope of delivery
- Compressed air and coolant spray guns make it easier to clean the workpiece, workholding devices and machine, e.g. during tool or workpiece changes

Control

- The Siemens 828D Basic control with teach-in control panel enables intuitive shop-floor programming without in-depth CNC knowledge
- Two electronic handwheels on the control panel allow manual traversing of the X- and Z-axes – for fast setup, tool touch-off (zero-point setting) and manual rework, just like on a conventional lathe
- The familiar operating logic of the handwheels shortens the training time for skilled workers experienced with conventional machines, and also supports teach-in program creation by approaching and capturing points
- Optionally, the dialog-guided Siemens ShopTurn programming package is available, allowing components to be programmed even without G-code

© 2024 KNUTH Werkzeugmaschinen GmbH. All rights reserved
Published on: 9.11.2026.

STANDARD EQUIPMENT

Siemens 828 D control
2 electronic handwheels
8-position electric VDI tool turret
Hydr. 3-B lathe chuck 250 mm with bore
Hydraulic tailstock
Air gun
Coolant gun
Coolant device
Heat exchanger for electrical control cabinet
Automatic central lubrication
Operating tool
Operating manual

KNUTH on YouTube
Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!

© 2024 KNUTH Werkzeugmaschinen GmbH. All rights reserved
Published on: 9.11.2026.