

# CNC Flat Bed Lathes

## Numturn TC 420 CNC

**SKU : 180143**

Our Numturn series is the perfect solution for small to medium sized workpieces to be machined on a powerful CNC lathe. The robust box-way design provides high rigidity and a large workspace. The SIEMENS CNC is carefully matched to the respective application. Two electronic hand-wheels ensure quick set-up and allow use of the machine like a manual lathe. The Numturn series is the best choice for maintenance/service departments or single parts production.

- Powerful main drive for heavy machining
- 8-station tool changer
- 2 electronic hand-wheels
- Tailstock with hydraulic quill



### TECHNICAL SPECS

#### WORKING AREA

Turning-Ø over bed	420 mm
Bed width	300 mm
Center height	210 mm
Turning-Ø over support	220 mm
Turning length (max.)	580 mm
Center width	655 mm
Maximum workpiece weight	250 kg

#### TRAVELS

Travel X-axis	215 mm
Travel Z-axis	624 mm

#### HEADSTOCK

Speed range	20 1/min - 2500 1/min
Spindle mount	A2-6
Spindle bore	66 mm
Spindle bore with draw tube	48 mm

#### RAPID FEED

Rapid feed X-axis	6000 mm/min
Rapid feed Z-axis	8000 mm/min

#### TOOLING

Number of tool stations	8 positions
Shank size	20 mm

#### TAILSTOCK

Tailstock taper	4 MT
Tailstock quill diameter	60 mm
Tailstock quill stroke	120 mm

#### DRIVE CAPACITY

Motor rating main drive	7.5 kW
Total power consumption	15 kVA

#### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.73 m x 1.8 m x 1.78 m
Weight	2220 kg



48 mm spindle bore in draw-tube



## PRODUCT DETAILS

### Machine Set-up

- The heavily ribbed machine frame features wide hardened v-block guideways for machining long workpieces
- A powerful 7.5 kW motor with infinitely variable speed drives the main spindle
- Premium preloaded ball screws and servo drives ensure consistent dynamic feed and precise positioning on both axes
- The tailstock with hydraulic quill impressively easy to handle and features high clamping holding force

### Tool Changer

- An automatic 8-station tool turret is part of the standard package and ensures maximum flexibility and productivity
- A powerful coolant pump feeds the tool mount nozzles through the turret to ensure precise and effective cooling

### Operating

- The NUMTURN series provides state-of-the-art ergonomics for quick and easy operation
- The button and hand-wheel functions are displayed intuitively on the movable control panel
- Both electronic hand-wheels allow precise control of X and Z axes, simplifying machine set-up and speeding up manual machining

### Control

- The SINUMERIK 808D ADVANCED is a perfect match for the Numturn series' application profile
- Leading CNC technology plus a revolutionary operating concept make the SINUMERIK 808D ADVANCED the perfect entry-level machine for newcomers in the world of CNC machining
- The Manuel Machine + (MM+) Software package is included
- It allows machining of workpieces without having to create a complete parts program

### Equipment

- The hydraulic chuck with adjustable clamping force has a through-hole for holding longer workpieces through the spindle
- The totally enclosed machine features a wide-opening sliding door for easy access
- An automatic central lubrication system reliably supplies all lubrication points and simplifies maintenance
- Electronics are protected within a fully enclosed control cabinet, and a powerful heat exchanger manages the temperature
- Hand guns for coolant and compressed air are mounted easily accessible at the machine

## STANDARD EQUIPMENT

Siemens 808D MM+ control  
 2 electronic handwheels  
 8-position electric tool turret  
 Hydr. 3-B lathe chuck 200 mm with bore  
 Hydraulic tailstock  
 Air gun  
 Coolant gun  
 Coolant device  
 Heat exchanger for electrical control cabinet  
 Automatic central lubrication  
 Operating tool  
 Operator instructions

## OPTIONAL EQUIPMENT

- Upgrade from Siemens 808D to Siemens 828D, SKU : 254254
- Siemens: Shopturn, SKU : 254255
- Chain chip conveyor with chip container, SKU : 254256
- Drill tool holder, SKU : 254257
- Axial tool holder, SKU : 254258
- Radial tool holder, SKU : 254259



## 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!**