

# CNC Flat Bed Lathes

## Numturn S 420/750



**SKU : 470626**

**CUSTOM MODEL**

**The machine is tested and fully functional and comes with a 12-month warranty**

Our Numturn series is the perfect solution for large workpieces that require a powerful CNC lathe. The robust box-way design ensures maximum precision. The control is extremely user-friendly. Two electronic hand-wheels let the user operate the machine just like a manual lathe. Options are available to customize the machine for special requirements. The Numturn series is the best choice for maintenance/service departments or single parts production.

- Powerful main drive for heavy machining
- VDI tool changer
- 2 electronic hand-wheels
- Tailstock with hydraulic quill
- Including Siemens Shopturn

### TECHNICAL SPECS

#### WORKING AREA

Center width	655 mm
Center height	210 mm
Turning-Ø over bed (max.)	420 mm
Turning-Ø over support	230 mm
Bed width	350 mm
Turning diameter (max.)	125 mm

#### TRAVELS

Travel X-axis	215 mm
Travel Z-axis	480 mm

#### HEADSTOCK

Speed range	20 1/min - 2500 1/min
Spindle mount	A2-6
Spindle bore	66 mm
Spindle capacity 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	6 positions
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#### TAILSTOCK

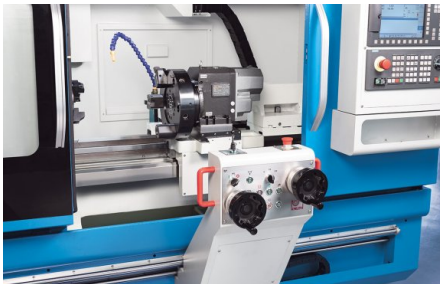
Tailstock taper	4 MT
Tailstock quill diameter	60 mm
Tailstock quill stroke	120 mm

#### DRIVE CAPACITY

Motor rating main drive	7.5 kW
Motor rating X-axis	6 Nm
Motor rating Z-axis	12 Nm
Motor rating coolant pump	0.21 kW

#### MEASURES AND WEIGHTS

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



## PRODUCT DETAILS

### Machine Design

- The heavily ribbed machine frame features wide hardened v-block guideways for machining long and heavy workpieces
- A powerful Siemens servo motor drives the main spindle via a manually shiftable 4-step transmission
- Premium preloaded ball screws and servo drives ensure dynamic feed and precise positioning on both axes
- Controls and ergonomics conform to the current Numturn generation ensuring quick user familiarization
- The tailstock with hydraulic quill is easy to handle and features high clamping force

### Tool Changer

- An automatic VDI tool turret is part of the standard package and ensures maximum flexibility and productivity
- Coolant nozzles are positioned directly at the turret tool mounts and are supplied with coolant by a high-pressure pump ensuring exact and effective tool cooling

### Control

- The Siemens 828D control with Siemens drives is the optimum solution for demanding milling jobs
- X and Z axes can be moved via 2 electronic hand wheels for quick and intuitive setup and manual machining

### Easier and faster from the drawing to the finished part - with ShopTurn!

- The Siemens ShopTurn was developed specifically to fulfill the programming requirements of workshops and allows fast and application-specific programming of all work steps for the production of single parts or small-scale series
- And with the integrated, powerful motion path generation, even the most complex contours and workpieces can be produced with ease.

### Equipment

- The hydraulic chuck with adjustable clamping force has a through-hole for holding longer workpieces through the spindle
- The totally enclosed machine body 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

### Standard equipment, functional descriptions, and specifications may deviate

### Standard Equipment

- Siemens 828D control
- Siemens Shopturn
- Hydraulic tailstock with foot switch
- Hydraulic 3-jaw power chuck, 200mm diameter with through-hole and foot switch
- Hydraulic unit
- Electric VDI tool turret with 6 stations
- Teach-in console with 2 hand-wheels and joysticks
- Coolant System
- Automatic central lubrication system
- Totally enclosed cabinet
- LED work lights
- Tri-color alarm light
- Operating tools
- User Guide



## 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!**