

# CNC Lathe Machines

## Numturn S 560/1500



**SKU : 470627**

### TRIAL MACHINE

**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
- 8-station VDI tool changer
- 2 electronic hand-wheels
- Tailstock with hydraulic quill

## TECHNICAL SPECS

### WORKING AREA

Center width	1370 mm
Center height	280 mm
Turning-Ø over bed (max.)	560 mm
Turning-Ø over support	310 mm
Turning length (max.)	1100 mm
Bed width	405 mm
Turning diameter (max.)	360 mm

### TRAVELS

Travel X-axis	320 mm
Travel Z-axis	1300 mm

### HEADSTOCK

Speed range	27 1/min - 1630 1/min
Spindle mount	A2-8
Spindle bore	80 mm
Spindle capacity with draw tube	63 mm

### RAPID FEED

Rapid feed X-axis	8000 mm/min
Rapid feed Z-axis	10000 mm/min

### TOOLING

Number of tool stations	8 positions
Tool shank dimensions	25 mm x 25 mm

### TAILSTOCK

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

### DRIVE CAPACITY

Motor rating main drive	11 kW
Motor rating X-axis	2.2 kW
Motor rating Z-axis	2.2 kW
Motor rating coolant pump	0.13 kW

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	3.74 m x 1.9 m x 2.11 m
Weight	4000 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
- It features infinitely variable spindle speed in every gear step and high torque across the entire speed range
- 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 8-station 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

### 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
- Hydraulic tailstock with foot switch
- Hydraulic 3-jaw power chuck, 250mm diameter with through-hole and foot switch
- Hydraulic unit
- Electric VDI tool turret with 8 stations
- Radial tool holders (3 each)
- Boring bar holder (1 each)
- Teach-in console with 2 hand-wheels and joysticks
- Mobile electronic hand-wheel
- Coolant System
- Automatic central lubrication system
- Heat-exchanger for control cabinet
- 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!**