

CNC Lathe Machines

Numturn S 420/750



SKU : 470626

CUSTOM MODEL

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