

# CNC Flat Bed Lathes

## Numturn S 560/1500

**SKU : 470627**

### TRIAL MACHINE

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              | 53.94 in |
| Center height             | 11 in    |
| Turning-Ø over bed (max.) | 22 in    |
| Turning-Ø over support    | 12 in    |
| Turning length (max.)     | 43 in    |
| Bed width                 | 16 in    |
| Turning diameter (max.)   | 14 in    |

### TRAVELS

|               |         |
|---------------|---------|
| Travel X-axis | 12.6 in |
| Travel Z-axis | 51 in   |

### HEADSTOCK

|                                 |                   |
|---------------------------------|-------------------|
| Speed range                     | 27 rpm - 1630 rpm |
| Spindle mount                   | A2-8              |
| Spindle bore                    | 3.1 in            |
| Spindle capacity with draw tube | 2 in              |

### RAPID FEED

|                   |               |
|-------------------|---------------|
| Rapid feed X-axis | 314.96 in/min |
| Rapid feed Z-axis | 393.7 in/min  |

### TOOL HEAD

|                         |             |
|-------------------------|-------------|
| Number of tool stations | 8 positions |
| Tool shank dimensions   | 1 in x 1 in |

### TAILSTOCK

|                          |      |
|--------------------------|------|
| Tailstock taper          | 5 MT |
| Tailstock quill diameter | 3 in |
| Tailstock quill stroke   | 6 in |

### DRIVE CAPACITY

|                           |         |
|---------------------------|---------|
| Motor rating main drive   | 14.8 Hp |
| Motor rating X-axis       | 3 Hp    |
| Motor rating Z-axis       | 2.95 Hp |
| Motor rating coolant pump | 0.2 Hp  |

### MEASURES AND WEIGHTS

|  |                        |
|--|------------------------|
| Overall dimensions (length x width x height) | 148 in x 75 in x 84 in |
| Weight                                       | 8800 lbs               |



## 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