



# CNC Slant Bed Lathes

## Roturn 400 C

**SKU : 180633**

This machine of the ROTURN C series impresses with the classic virtues of a compact CNC production lathe. With its Siemens 828 D Basic control, it meets all the requirements for current control technology. The inclined bed machine with 8-station tool turret and powerful 15 kW (20 hp) main spindle motor has a hydraulic 3-jaw chuck with through-hole. The tailstock is equipped with a hydraulically operated quill and a large stroke. A flat top conveyor and a high-performance coolant system round out the standard equipment.

- Powerful main spindle motor
- 8 station tool turret
- Includes chip conveyor
- Siemens 828 control
- Chuck with through-hole



### TECHNICAL SPECS

#### WORKING AREA

|                               |        |
|-------------------------------|--------|
| Workpiece length (max.)       | 430 mm |
| Center height                 | 200 mm |
| Turning diameter over bed     | 400 mm |
| Turning diameter over support | 250 mm |

#### TRAVELS

|               |        |
|---------------|--------|
| Travel X-axis | 200 mm |
| Travel Z-axis | 450 mm |

#### HEADSTOCK

|                             |                       |
|-----------------------------|-----------------------|
| Lathe chuck diameter        | 200 mm                |
| Speed range                 | 50 1/min - 3000 1/min |
| Spindle mount               | A2-6                  |
| Spindle bore                | 62 mm                 |
| Spindle bore with draw tube | 46 mm                 |

#### RAPID FEED

|                   |              |
|-------------------|--------------|
| Rapid feed X-axis | 16000 mm/min |
| Rapid feed Z-axis | 20000 mm/min |

#### TOOLING

|                         |               |
|-------------------------|---------------|
| Number of tool stations | 8 positions   |
| Tool shank dimensions   | 25 mm x 25 mm |
| Boring bar mount Ø      | 40 mm         |

#### TAILSTOCK

|                          |       |
|--------------------------|-------|
| Tailstock taper          | 5 MT  |
| Tailstock quill diameter | 88 mm |
| Tailstock quill stroke   | 85 mm |

#### DRIVE CAPACITY

|                           |            |
|---------------------------|------------|
| Main motor rating         | 15 / 11 kW |
| Motor rating coolant pump | 0.18 kW    |

#### MEASURES AND WEIGHTS

|  |                         |
|--|-------------------------|
| Overall dimensions (length x width x height) | 3.8 m x 1.87 m x 1.91 m |
| Weight                                       | 3340 kg                 |



Siemens Sinumerik 828 D - a compact and user-friendly solution for lathes



Pressure gauge for pressure monitoring



Central lubrication device and maintenance unit



45° inclined bed with linear guides



Siemens drive (here X-axis)

## PRODUCT DETAILS

### Highlights

- Future-proof: the Siemens 828 D Basic control meets all requirements for advanced control technology
- A hydraulic 3-B chuck with passage is included in the scope of delivery as standard
- Hinged belt conveyor and high-performance coolant system included in standard equipment

### Machine Design

- Heavy machine frame with inclined bed ensuring high rigidity and easy chip removal
- Precise linear guides in X and Z for high stability and accuracy even at highest loads
- The enclosed work space is easily accessible through a large sliding door
- Tailstock with hydraulically operated quill with a maximum stroke of 85 mm
- Automatic central lubrication system ensures reliable lubrication of guideways

### Spindle

- Max. Spindle speed 3.000 1/min (Roturn 400C) or 2.000 1/min (Roturn 402C)
- Motor power 11/15 kW

### Tool Changer

- The 8-station tool turret ensures a large work area and quick and precise tool changes

## CONTROLS & SOFTWARE

### Siemens 828 D control

#### SINUMERIK 828 D – The workhorse in the compact class of CNCs

### Highlights

- Compact, robust, maintenance-free control panel-based CNC
- Comfortable program and parameter input via QWERTY keyboard
- Maximum machining precision
- Intelligent kinematic transformations for machining of cylindrical parts, and for angled workpiece levels
- SINUMERIK MDynamics with the new Advanced Surface feature: for perfect part surfaces and shortest machining times in mold making applications
- ProgramGUIDE: fastest machining time and maximum flexibility for large series productions
- Unique spectrum of technology cycles - from milling contours with residual material recognition to process measurements
- Animated Elements: unique operation and programming assistance with animated sequences
- Modern data transfer options via USB stick, CF card and network (Ethernet)

### CNC hardware

- Control-panel based high-performance CNC Control
- Robust front control panel made of magnesium die-casting
- Integrated full-size QWERTY keyboard
- Maintenance-free design (no buffer battery required)

### CNC performance data and functions

- Dynamic feed-forward control
- Linear, circular and helical interpolation
- Tapping without compensating chuck, plus thread cutting
- Toggle between inch and metric units
- FRAME concept for individual coordinate transformations, rotations, scaling and mirroring
- 100 adjustable zero offsets
- Synchronous actions and quick help function output

### CNC technology cycles

- Large selection of drilling cycles
- Large selection of milling cycles for standard geometry

- Large selection of position patterns for drilling and milling operations
- High-speed settings for mold making applications
- Geometry calculator for free contour input
- Machining cycle for contour pockets / contour spigots with isolated contours

#### **Graphic features**

- Graphical online help system, similar to PC system
- Graphical CNC simulation with level display

#### **CNC tool management**

- Display of tool and magazine data on one screen
- Tool management with plain-text tool names
- Loading/unloading feature for easy magazine assignment
- Tool management with tool life monitoring
- 10.4" TFT color monitor

## **STANDARD EQUIPMENT**

Siemens 828 D control  
 Hydr. 3-jaw- lathe chuck 200 mm with borehole  
 Hydr. tailstock  
 Automatic central lubrication  
 Chain-type chip conveyor  
 Heat Exchanger for electric control cabinet  
 Closed work space  
 LED work lamp  
 Coolant system  
 Air gun  
 Coolant system flush gun  
 Operating tools  
 Operator manual

## **OPTIONAL EQUIPMENT**

- Preparation Barfeeder Interface, SKU : 270250
- LNS Alpha SL 65-S bar feeder (1,5 m), SKU : 253904
- LNS Sprint 545 bar feeder (3 m), SKU : 254109