



# 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



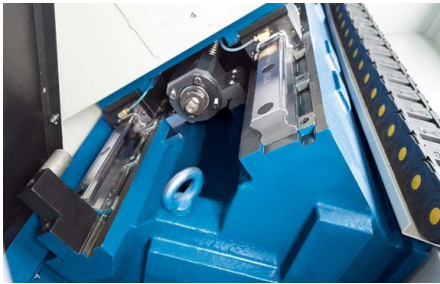
*Siemens Sinumerik 828 D - a compact and user-friendly solution for lathes*



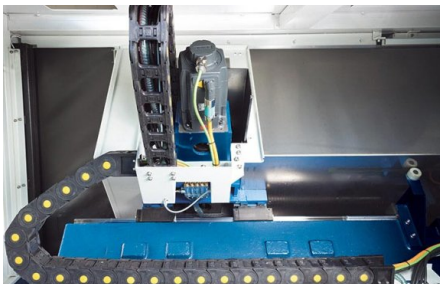
*Pressure gauge for pressure monitoring*



*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

