CNC Slant Bed Lathes
Roturn 400 GT

SKU : 180632

The machines of the ROTURN GT series with linear tool changers are particularly suitable for series machining of smaller workpieces. The shortest tool changing times and reliable functionality guarantee increased productivity. The inclined bed design ensures good chip flow. The hydraulic 3-jaw chuck with through-hole enables fast loading and short non-productive times, and the Siemens 828 D Basic control meets all requirements for current control technology. A flat top conveyor and a high-performance coolant system round out the standard equipment.

- Rapid linear tool changer
- Includes chip conveyor
- Siemens 828 control
- Chuck with through-hole

TECHNICAL SPECS

WORKING AREA

Workpiece length (max.)	380 mm
Center height	200 mm
Turning diameter over bed	400 mm
Turning-Ø over support	140 mm

TRAVELS

Travel X-axis	460 mm
Travel Z-axis	400 mm

HEADSTOCK

Speed range	60 1/min - 5000 1/min
Spindle mount	A2-5
Spindle bore	46 mm
Spindle bore with draw tube	36 mm

RAPID FEED

Rapid feed X-axis	25000 mm/min
Rapid feed Z-axis	25000 mm/min

TOOLING

Tool changer type	Linear changer
Tool shank dimensions	20 mm x 20 mm
Boring bar mount Ø	38 mm

DRIVEN TOOLS

Number of driven tools	1 positions
Speed range, driven tools	7500 1/min
Collet	ER 25

DRIVE CAPACITY

Main motor rating	7,5 / 5,5 kW
Motor rating coolant pump	0.18 kW

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	1.95 m x 1.5 m x 1.75 m
Weight	2500 kg

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

Linear tool changer with a driven tool

PRODUCT DETAILS

Highlights
- The tried and tested SIEMENS 828 D Basic control meets all requirements for advanced control technology
- A hydraulic 160 mm 3-jaw chuck is included in the standard equipment
- Incl. chip conveyor, driven tool and linear changer

Machine Design
- Machine frame with inclined bed construction for high rigidity and easy chip removal
- Totally enclosed workspace for optimum protection and cleanliness and a large sliding door provides easy Access
- Hardened linear guides on X and Z ensure maximum precision and reliability

Spindle
- Max. spindle speeds up to 5000 rpm
- Motor power 5,5/7,5 kW

Tool Changer
- Linear tool changers are ideal for the serial production of smaller workpieces - shortest tool changing times and absolutely reliable features ensure increased productivity

Productivity
- Speed of the driven tool 7.500 1/min, collet chuck ER 20

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
- Integreated 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.160 mm 3-jaw lathe chuck with through-hole
Driven tool (radial)
Automatic central lubrication
Chain-type chip conveyor
Heat Exchanger for electric control cabinet
Closed work space
LED work lamp
Coolant system
Operating tools
Operator manual