



# Vertical Machining Centers X.mill T 800 Si CNC

**SKU : 423501**

## CUSTOM MODEL

Compact all-in-one solution for complex solutions and powerful 4-axis machining

- Optimized frame design using FEM analysis
- Extra wide Y-shaped column for increased rigidity
- Ø32 mm C3 preloaded ball screws for high accuracy
- BT-40 main spindle mounts



## TECHNICAL SPECS

### WORKING AREA

Table dimensions	900 mm x 550 mm
Table load capacity	800 kg
Spindle axis-to-table surface distance	110 mm - 660 mm
Spindle center-to-stand distance	520 mm
Number of T-slots	5 positions
T-slot (width x spacing)	18 mm x 80 mm

### TRAVELS

Travel X-axis	800 mm
Travel Y-axis	520 mm
Travel Z-axis	550 mm

### HEADSTOCK

Spindle speed	10000 1/min
Spindle mount	BT 40
Torque, constant	45 Nm

### RAPID FEED

Rapid feed X-, Y-, Z- axis	36000 mm/min
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### FEED

Work feed X / Y / Z axis	10 m/min x 10 m/min
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### TOOLING

Number of tool stations	24 positions
Tool Ø	100 (130) mm
Tool weight max.	8 kg
Tool-change time tool/tool	8 sec

### ACCURACIES

Positioning accuracies	0.005 mm
Repeatability	0.003 mm

### DRIVE CAPACITY

Motor rating main drive	9 kW
Motor rating X-axis	2.3 kW
Motor rating Y-axis	2.3 kW
Motor rating Z-axis	3.3 kW
Total power consumption	15 kVA - 20 kVA

### CONTROL

Control	Siemens
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### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.47 m x 2.2 m x 2.52 m
Weight	4400 kg



*The Siemens 828 D features state-of-the-art operating technology and functionality for maximum efficiency*



*Quick-action tool changer with dual-arm gripper and 24 tool stations*

## PRODUCT DETAILS

### Includes an extensive optional equipment package for the production of complex workpieces

- Control upgrade to Siemens 828D with PPU 280 and Siemens Shopmill, plus additional software functions, like residual material detection, simultaneous recording, 3D simulation and measuring cycles

### This machine is also preconfigured with the following options:

- BT 40 tool mount, oil cooler for main spindle, coolant flow through main spindle with filter system, oil skimmer and enclosure with closed top, flush-out system and link conveyor for chip removal, tool changer with dual-arm gripper and 24 tools, Preparation (wire harness) for 4th and 5th axis

### Machine Design

- The X.mill series machine frame was developed using the most advanced FEM analysis software on the market
- The thorough analysis of the entire machine bed construction and wide column base resulted in a design that is optimized for all load conditions
- All axes move on premium, fully enclosed linear guideways and precision ball screws and are driven by dynamic servo-motors

### Spindle

- The main spindle is supported by multiple bearings to ensure excellent absorption and dissipation of forces during machining
- The advanced design of our spindles ensure low heat accumulation under load
- Large pre-loaded bearings ensure radial stability during heavy-duty machining operations
- High-temperature lubricants ensure optimum lubrication at any operating temperature and a long tool life

### Handling

- The totally enclosed workspace features a large door and side doors for easy access, safety and cleanliness
- An electronic hand-wheel simplifies machine set-up
- Electrical equipment is divided into separate control cabinets for high and low voltage systems, which results in a significant reduction of heat accumulation and noise
- The automatic central lubrication system ensures proper lubrication of all lube points

## STANDARD EQUIPMENT

- Shopmill Softwareoption für Sinumerik 828D
- Spindle oil cooler
- Coolant through spindle 30 bar with double filter
- Oil skimmer
- Chip wash system
- BT40 24-station tool changer with dual-arm gripper
- Chip conveyor chain type
- Siemens 828 D control
- USB port
- Rigid tapping
- Heat Exchanger for electric control cabinet
- Work lamp
- Automatic lubrication system
- Coolant system
- Manual coolant spray gun
- Autom. power off
- Electronic hand-wheel
- Spindle air system
- Fully enclosed work space (without top cover)
- 3-color signal lamp
- Toolbox with tools
- Leveling bolts and blocks