



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