



Vertical Machining Centers

X.mill 450



SKU : 181366

The X.mill 450 is a reliable, compact Machining Center with extensive equipment for lean and cost-effective production. This model is very popular among customers who are looking for a quick and compact solution for small workshops, while enjoying the advantages of a powerful CNC.

- Compact design
- High-quality components and extensive equipment
- Siemens 828D control
- Robust 12-station tool changer

TECHNICAL SPECS

WORKING AREA

Table dimensions	28 in x 10 in
Table load capacity	440 lbs
Spindle nose-to-table surface distance	3 in - 20 in
Spindle center - column	13 in
Number of T-slots	3 positions

TRAVELS

Travel X-axis	17.7 in
Travel Y-axis	10 in
Travel Z-axis	17 in

HEADSTOCK

Spindle speed	10000 rpm
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Torque, constant	18 ft.lb.

FEED

Rapid feed	472 in/min
Work feed	393.7 in/min

TOOL HEAD

Number of tool stations	12 positions
Tool Ø	90 (150) in
Tool length (max.)	10 in
Tool weight max.	18 lbs
Tool-change time tool/tool	1.8 sec

ACCURACIES

Repeatability	0.00024 in
Positioning accuracy	0.00031 in

DRIVE CAPACITY

Main drive, continuous load	37/55 Hp
Total power consumption	10 kVA

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	84 in x 71 in x 89 in
Weight	3960 lbs



PRODUCT DETAILS

The proven X.mill series for streamlined and cost-effective machining

Machine Design

- Solid cast-iron machine body integrates many years of experience and state-of-the-art technology
- All axes run on premium, totally enclosed linear guideways and precision preloaded ball screws for high accuracy and low friction
- The wide machine table features 3 T-slots and 441lbs load capacity
- The work area is easily accessible through wide opening doors

Spindle

- The spindle is supported by multiple bearings to ensure excellent absorption and dissipation of forces during machining
- An ST 40 spindle mount provides maximum rigidity and allows a wide selection of tools
- Includes a high-quality belt-driven spindle unit with speeds up to 10,000 rpm

Tool Changer

- A 12-station tool changer provides for increased productivity, flexibility and safety during machining
- The horizontal design does not require additional grippers, is very robust, and can handle very heavy tools

Control

- The Siemens 828D control with Siemens drives is the optimum solution for demanding milling jobs

Equipment

- An electronic hand-wheel simplifies machine set-up
- Electronics are protected within a fully enclosed control cabinet, and a powerful heat exchanger manages the temperature
- Work space is totally enclosed and can be equipped with an exhaust system
- Spray guns for coolant and compressed air are available for cleaning workpieces and workspaces
- An automatic central lubrication system reliably supplies all lubrication points and simplifies maintenance

STANDARD EQUIPMENT

siemens 828D control
 Carousel-type 12-station tool changer
 Enclosed work area (without top cover)
 Automatic central lubrication
 Coolant System
 Manual coolant spray gun
 Air gun
 Heat exchanger for electric control cabinet
 Electronic hand-wheel
 Work lamp
 3-color signal lamp
 Operating tools
 Operator instructions

OPTIONAL EQUIPMENT

- 4.92" diam. 4th axis (complete assembly), SKU : 254286
- Manual tailstock for 4th axis, SKU : 254288
- Spindle oil cooler, SKU : 254265
- Chip flush-out system, SKU : 254266
- Oil skimmer, SKU : 254267
- Top cover, SKU : 254268

- Siemens Function: Shopmill, SKU : 254269
- Chain-type chip conveyor, SKU : 254270
- (Wasbek) Renishaw OMP40-2T Workpiece Scanning Probe (ST 40), SKU : 253288
- (Wasbek) Renishaw SET OMP40-2T Scanning Probe + OTS Toolsetter (ST 40), SKU : 254026
- (Wasbek) Renishaw OTS Toolsetter, SKU : 254285