



Vertical Machining Centers X.mill 600



SKU : 181450

The X.mill series is the latest generation of our vertical machining centres with modern, powerful CNC control from Siemens. Vertical machining centres such as this series offer outstanding value for money. A wide range of accessories allows you to adapt them to your specific requirements.

- Fast tool change with double-arm gripper
- Siemens 828 control system
- High-quality components and complete equipment
- Designed for multi-shift operation

TECHNICAL SPECS

WORKING AREA

Table dimensions	31 in x 20 in
Table load capacity	880 lbs
Spindle nose-to-table surface distance	5 in - 24 in
Spindle center - column	23 in
Number of T-slots	5 positions
T-slot (width x spacing)	0.71 in x 3.54 in

TRAVELS

Travel X-axis	23.6 in
Travel Y-axis	20 in
Travel Z-axis	20 in

HEADSTOCK

Spindle speed	10000 rpm
Spindle mount	SK40

RAPID FEED

Rapid feed X / Y axis	1417 in/min
Rapid feed Z-axis	944.88 in/min

FEED

Feed speed X / Y / Z axis	472 in/min
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TOOL HEAD

Number of tool stations	24 positions
Tool size Ø x L (max.)	2.95 in x 5.91 in

ACCURACIES

Positioning accuracy X- / Y-axis	±,00016 in
Repeatability X- / Y-axis	±,00008 in

DRIVE CAPACITY

Main drive, continuous load	10.06 Hp
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MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	119 in x 89 in x 97 in
Weight	8800 lbs



PRODUCT DETAILS

Design and Construction

- The X-mill has been designed from the ground up to ensure reliable performance in a production environment and consistent results in day-to-day operation
- All axes move on high-quality, fully enclosed linear guides and precision ball screws, ensuring high accuracy and low static friction
- The worktable offers great flexibility for workpieces of various sizes. Travel ranges from 600 mm to 1100 mm are possible along the X-axis
- The workspace is clearly laid out, and access to controls has been optimised to keep set-up and configuration times as short as possible in day-to-day production
- The entire design is engineered to be low-maintenance and easy to service, even under heavy, continuous use ("Daily Worker")

Main spindle and drives

- The multi-bearing spindle ensures effective absorption and dissipation of the forces generated during machining
- The high-quality, belt-driven spindle unit enables a wide speed range of up to 10,000 rpm
- The SK 40 spindle mount is characterised by its stability and wide range of tools

Automatic Tool Changer

- The 24-position tool changer increases productivity, flexibility and safety during machining
- Thanks to the vertical design with double-arm gripper, each tool change can be carried out quickly and the discarded tools are stored in a space-saving manner
- The heavy-duty design ensures robustness and allows for high tool weights

Equipment

- The electronic handwheel makes it easier for the operator to set up the machine
- The electronics are optimally protected in the closed control cabinet, and a powerful heat exchanger takes care of temperature management
- The workspace is completely enclosed and can easily be equipped with an extraction system
- Hand spray guns for coolant and compressed air are available for cleaning workpieces and the work area
- The automatic central lubrication system reliably supplies all lubrication points and facilitates machine maintenance

Controller

The Siemens 828D control system with Siemens drives is the top specialist for demanding milling operations

STANDARD EQUIPMENT

siemens 828D control
24-position tool changer with double-arm gripper
chip conveyor with chip container
enclosed working area (without top cover)
automatic central lubrication system
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
Operating manual

OPTIONAL EQUIPMENT

- Spindle oil cooler, SKU : 254265
- Siemens Function: Shopmill, SKU : 254269
- (Wasbek) Renishaw OMP40-2T Workpiece Scanning Probe (ST 40), SKU : 253288
- (Wasbek) Renishaw OTS Toolsetter, SKU : 254285
- (Wasbek) Renishaw SET OMP40-2T Scanning Probe + OTS Toolsetter (ST 40), SKU : 254026