



# Vertical Machining Centers X.mill 450 Si 828D

**SKU : 470640**

**TRIAL MACHINE**

**Without CE mark, only for export to countries outside the EU**

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	700 mm x 260 mm
Table load capacity	200 kg
Spindle nose-to-table surface distance	80 mm - 500 mm
Spindle center - column	330 mm
Number of T-slots	3 positions

### TRAVELS

Travel X-axis	450 mm
Travel Y-axis	260 mm
Travel Z-axis	420 mm

### HEADSTOCK

Spindle speed	10000 1/min
Spindle mount	SK 40 ISO 7388-1 (DIN 69871)
Torque, constant	24 Nm

### FEED

Rapid feed	12000 mm/min
Work feed	10000 mm/min

### TOOLING

Number of tool stations	12 positions
Tool Ø	90 (150) mm
Tool length (max.)	250 mm
Tool weight max.	8 kg
Tool-change time tool/tool	8 sec

### ACCURACIES

Repeatability	0.006 mm
Positioning accuracy	0.008 mm

### DRIVE CAPACITY

Main drive, continuous load	3,7/5,5 kW
Total power consumption	10 kVA

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.11 m x 1.78 m x 2.25 m
Weight	1800 kg

## 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 200 kg 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