

# Vertical Machining Centers

## X.mill 400 Si 828D

**SKU : 470640**

**TRIAL MACHINE**

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

This model is very popular with customers who are looking for a quick, inexpensive solution for smaller workshops or who want to convert from conventional to CNC machining.

- 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	1.8 sec

#### ACCURACIES

Repeatability	0.008 mm
Positioning accuracy	0.006 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
- 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
- Karussell Typ 12-fach Werkzeugwechsler
- Geschlossener Arbeitsraum (ohne top cover)
- Automatic central lubrication system
- Coolant system
- Kühlmittel-Handsprühpistole
- Druckluftpistole
- Wärmetauscher für elektr. Schaltschrank
- Elektronisches Handrad
- Work lamp
- 3-farbige Signalleuchte
- Operating tools
- Operation manual



## KNUTH on YouTube

### Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?  
Please feel free to contact us!**