



Vertical Machining Centers X.mill 400 (BT40)



SKU : 181359

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 with small footprint
- Built to last robust machine body
- Oil cooled powerful main spindle
- Air-conditioned electrical cabinet

TECHNICAL SPECS

WORKING AREA

Table dimensions	24 in x 12 in
Table load capacity	330 lbs
Number of T-slots	3 positions
T-slots, width	0.6 in
T-slots, spacing	3.9 in
Spindle nose-to-table surface distance	4 in - 23 in

TRAVELS

Travel X-axis	15.7 in
Travel Y-axis	9 in
Travel Z-axis	18 in

HEADSTOCK

Spindle speed	8000 rpm
Spindle mount	BT 40 JIS (MAS 403)

FEED

Rapid feed X-axis	472 in/min
Rapid feed Y-axis	472 in/min
Rapid feed Z-axis	394 in/min
Work feed X-axis	0.039 in/min - 393.7 in/min
Work feed Y-axis	0.039 in/min - 393.7 in/min
Work feed Z-axis	0.039 in/min - 393.7 in/min

TOOL HEAD

Number of tool stations	12 positions
Tool Ø	2,16 (4,72) in
Tool length (max.)	12 in
Tool weight max.	18 lbs
Tool-change time tool/tool	7 sec

ACCURACIES

Positioning accuracies	0.0008 in
Repeatability	0.00039 in

DRIVE CAPACITY

Motor rating main drive	5 Hp
Motor rating X-axis	1 Hp
Motor rating Y-axis	1 Hp
Motor rating Z-axis	1.34 Hp
Total power consumption	10 kVA

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	83 in x 75 in x 97 in
Weight	4840 lbs



12-position tool changer



Siemens Sinumerik 808D control



Introduction to CNC milling for series production and training



Large access doors on the side



PRODUCT DETAILS

Highlights

- Powerful BT 40 spindle with speeds up to 8,000 rpm
- Solid cast-iron machine frame with extra low center of gravity and small footprint
- Siemens 808D control and Siemens drives ensure maximum process reliability and efficient programming

Machine Design

- Solid Y-shaped cast-iron machine body integrates many years of experience and state-of-the-art technology
- All axes move on premium, fully enclosed linear guideways and precision ball screws for high accuracy and low friction
- Solid machine table features 3 slots and a load capacity of 150 kg
- The Z axis drive is supported by a counter-weight with guide rollers
- Electronic hand-wheel simplifies machine set-up
- The automatic central lubrication system ensures proper lubrication of all lube points

Spindle

- Spindle runs on multiple bearings to ensure excellent absorption and dissipation of forces during machining
- The premium spindle unit features a large tool mount and includes a spindle oil cooler - a great advantage in continuous operations

Tool Changer

- Robust 12-station tool changer with tool changing time of 7 seconds
- For a max. workpiece weight of 3 kg

CONTROLS & SOFTWARE

Siemens 808D Advance control

- SINUMERIK 808D ADVANCE -- the perfect solution for modern standard machines
- CNC and drive communicate via a high-speed bus to ensure efficient positioning control plus high precision and optimum cutting performance
- This is topped by a guaranteed superior price/performance ratio
- In combination with a new generation of spindle and axis drives, the SINUMERIK 808D ADVANCE with 8.4" LCD provides an innovative ready-to-use digital CNC solution for modern standard machines

Advantages - Digital solution provides higher precision:

- Increased overload capacity supports a faster acceleration and deceleration of machine tools
- Constant cutting speeds result in an increased surface quality of the workpiece

Increased ruggedness:

- During heavy machining operations, an automatic spindle torque adjustment will help protect machining tools and spindle systems.
- The SINAMICS features a wide voltage range to prevent machine shut-downs during poor voltage supply conditions. This will significantly reduce machine down-times.

Increased operator comfort:

- A fast Ethernet connection facilitates easy start-up and diagnostics of machine tools and simplifies NC program use

STANDARD EQUIPMENT

Work lamp
 Automatic central lubrication
 Operating tools
 Operator instructions
 Electronic hand-wheel
 Enclosure
 Coolant system
 Compressed air gun
 level pads and bolts
 Siemens 808D Advance control
 Operational health status indicator
 12-station automatic tool changer