



## 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	600 mm x 300 mm
Table load capacity	150 kg
Number of T-slots	3 positions
T-slots, width	14 mm
T-slots, spacing	100 mm
Spindle nose-to-table surface distance	100 mm - 580 mm

### TRAVELS

Travel X-axis	400 mm
Travel Y-axis	230 mm
Travel Z-axis	450 mm

### HEADSTOCK

Spindle speed	8000 1/min
Spindle mount	BT 40 JIS (MAS 403)

### FEED

Rapid feed X-axis	12000 mm/min
Rapid feed Y-axis	12000 mm/min
Rapid feed Z-axis	10000 mm/min
Work feed X-axis	1 mm/min - 10000 mm/min
Work feed Y-axis	1 mm/min - 10000 mm/min
Work feed Z-axis	1 mm/min - 10000 mm/min

### TOOLING

Number of tool stations	12 positions
Tool Ø	100 (130) mm
Tool length (max.)	300 mm
Tool weight max.	8 kg
Tool-change time tool/tool	7 sec

### ACCURACIES

Positioning accuracies	0.02 mm
Repeatability	0.01 mm

### DRIVE CAPACITY

Motor rating main drive	3.7 kW
Motor rating X-axis	0.75 kW
Motor rating Y-axis	0.75 kW
Motor rating Z-axis	1 kW
Total power consumption	10 kVA

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.1 m x 1.9 m x 2.45 m
Weight	2200 kg



*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  
 Air gun  
 levelling pads and bolts  
 Siemens 808D Advance control  
 Operational health status indicator  
 12-station automatic tool changer