

CNC vertical machining center WMC 1100

Order no. with SIEMENS 828 D with Shopmill: 520100

Order no. with HEIDENHAIN iTNC620: 520440

Order no. with FANUC OiMB: 520084

These high-performance CNC vertical machining centers were specially developed to meet the constantly growing requirements in heavy-duty machining.



WMC 1100

Technical specifications:

Clamping surface, mm	1300x600	Rapid traverse: X / Y / Z, m / min.	20000/20000/1500
T - slots, mm	18 x 5	Feed range: X / Y / Z m / min.	1-20000 / 1-20000 / 1-15000
Table load, kg	1000	Number of magazine locations	24
Travels: X / Y / Z, mm	1100/650/600	Tool holder	SK 40
Distance spindle nose table, mm	min.175 max. 780	Tool Ø, max., Mm	80
Distance between spindle center column, mm	700	Tool weight, max., Kg	8
Spindle taper DIN 69871	SK 40	Tool change time, sec.	2
Spindle speed min-1	1-8000	Chip-to-chip, sec.	4
Spindle motor:		Repeatability, mm	+/- 0,003
FANUC 30 min. S3, 60 %, kW	11	Positioning accuracy, mm / 300 mm	+/- 0,005
HEIDENHAIN QAN-260 L, kW	20	Dimensions (LxWxH), mm	3180x2680x3100
S1 / S6 60% / S6 25%, kW	17 / 20 / 24	Machine weight, approx., Kg	8000
Siemens 828 D Shopmill			
S6 40%	13 kW		
S1 100%	9 kW		

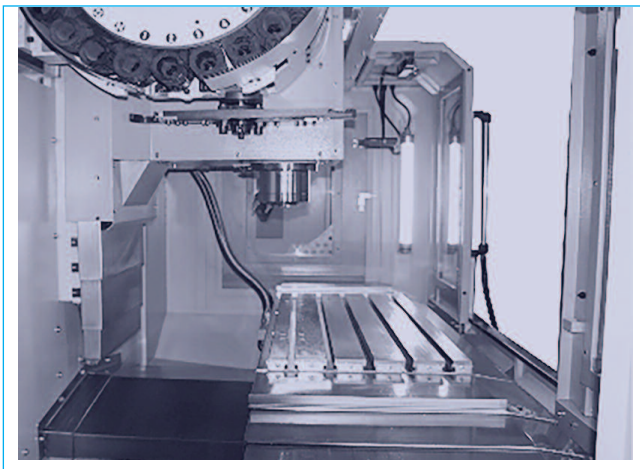
A detailed description of the CNC controls and the special accessories can be found in the appendix to this catalog.

Our terms and conditions form the basis.



CNC vertical machining center WMC 1100

- **Traverse paths:** large transverse path, table can be equipped very well, as there is little distance between the table and the housing, compact design with a large Y path
- **Spindle:** up to 12,000 rpm.
- **ZF gearbox** for better torque curve (WMC 1100) alternatively 30 kW spindle motor
- **Backlash-free drive** via belt, alternatively with direct drive
- **24 double arm changers** as standard
- **Stand:** Large span of the guide
- **Table:** optimal clamping surface
- **Saddle:** Wide guidance of the table with 3 guides, for heavy workpieces
- **Base body:** Heavy cast construction for heavy-duty machining
- **Flat guides** in all 3 axes
- **Cooling** through the spindle possible, water and air nozzles on the spindle
- **Central lubrication**
- **Chip conveyor** with flushing device on request
- **Enclosure:** Optimal equipment through two doors
- **Drive:** matched to the control package
- **Control:** Dialog control SIEMENS or FANUC as production control



working space

Standard equipment:

- Full machine cladding with doors
- Automatic tool changer in double arm design, 24 stations
- Spindle oil cooler
- Ring cooling nozzles integrated in the spindle head for
- optimal cooling water supply on the WMC 1100 tool
- Coolant gun / air gun
- Preparation of the chip conveyor
- Flat guides with Turcite B counter-coating
- Complete coolant system
- Automatic central lubrication
- Blow-out device for the spindle
- Signal lamp / machine lamp
- Machine feet with leveling screws
- Tool box with operating tools
- Documentation
- CE standard
- Equipment 400 V. / 50 Hz.
- **Steering:**
- Siemens 828 D with Shopmill
- alternatively: Heidenhain iTNC 640 with QAN 260L
- alternatively: Fanuc OiMB with monochrome screen

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Control panel

Special accessories

- Spiral chip conveyor
- Hinge chip conveyor with trolley
- Surcharge for more powerful motor 22/30 kW (Siemens)
- Increased spindle speed 10,000 rpm. via belt with spindle oil cooler, SK 40
- Increased spindle speed 12,000 rpm. via belt with spindle oil cooler, SK 40
- Cooling through the spindle with filter cartridge
- 15 bar for sSK40
- Surcharge for paper filter system with separate tank for optional cooling through the spindle with 20 bar instead of cartridge
- (except for promotional packages, here retrofit kits)
- Increased spindle speed 12,000 rpm. SK 40 direct drive
- Cooling through the spindle 15 bar for
- Direct drive SK 40
- Surcharge for tool changer with double gripper arm and 30 magazine locations
- ZF transmission (stepless in 2 ranges), SK 40
- Spindle nose SK50 / 6000rpm.