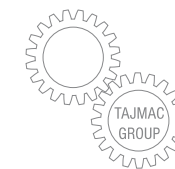


# VERTICAL MACHINING CENTRE

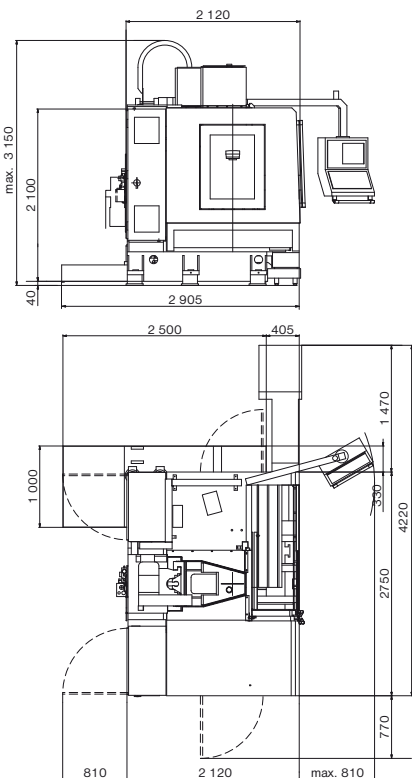
# **MCFV 1060**



- ▶ High performance
- ▶ Extra strength and rigidity
- ▶ High dynamic and thermal stability
- ▶ Long-lasting high accuracy
- ▶ High reliability
- ▶ Enclosure making workpiece handling easy
- ▶ Model flexibility



The MCFV 1060 production vertical machining centre in the STANDARD, TREND and CONTOUR versions covers the complete range of technologies from the power up to the high-speed machining. The machine skeleton is formed by two stationary castings - by a base and a column fixed to it. All guideways are formed by the linear ways with roller packs. Their dimensions and positions allow the high loading of the table, saddle and spindle head while the workpiece high dimensional accuracy and quality are kept even at an interrupted cut. This constructional solution also ensures the high service life of the machine. The wide application of the machine invites to the usage of abundant equipments.



### Travels

X-axis (work table)	1 016 mm
Y-axis (saddle)	610 mm
Z-axis (spindle head)	760 mm
Spindle nose to table distance	150 – 910 mm
Max. feed rate	15 m/min
Rapid traverse	40 m/min
Acceleration	5 m/s <sup>2</sup>

### Work table

Working area	1 270 x 590 mm
Number of T-slots x width x span	5 x 18 mm x 125 mm
Max. load	1 350 kg

### Accuracy (VDI/DGQ 3441)

Positioning (P)	0.010 mm
Repeatability (Ps max.)	0.006 mm
Measuring type	linear rulers

### Spindle

	STANDARD	TREND	CONTOUR
Clamping taper	ISO 40 (HSK 80)	ISO 50	ISO 40
Max. speed	10 000 rpm	8 000 rpm	12 000 rpm
Power continuously/at overload S6-40%	20/28 kW	20/30 kW	17/25 kW
Max. torque/ at overload S6-40%	244/342 Nm	306/458 Nm	96/141 Nm
Transmission type	planetary gearbox	belt	electrospindle

### Automatic tool changer

Number of tool pockets in ATC	30
Tool exchange time	3.5 s
Tool max. diameter:	
- at fully occupied tool changer	80 mm
- without adjacent tools	160 mm
Max. tool length	300 mm
Max. tool weight	6.5 kg
Max. weight of all tools in APC	160 kg

### Energy supplies

	STANDARD	TREND	CONTOUR
Operational power input	30 kVA	35 kVA	45 kVA
Mains voltage requirement	3 x 400 V/50 Hz		
Compressed air	0.6 – 0.8 MPa		

### Complementary data

Machine floor layout w/o chip conveyor	2 750 x 2 120 mm
Machine max. working height	3 150 mm
Machine weight	6 700 kg

### Control system

SINUMERIK 840 D

Description, illustrations and numerical data may not always correspond with the machine latest version.

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### STANDARD EQUIPMENT

- ▶ SINUMERIK 840 D control system
- ▶ Siemens digital drives
- ▶ Linear optoelectric measuring rulers
- ▶ Tool magazine with tool change arm
- ▶ Central lubrication system
- ▶ Tool holder automatic blasting with air
- ▶ Coolant unit with tool cooling system
- ▶ Telescopic covers washing-off
- ▶ Electronic compensation

### OPTIONAL EQUIPMENT

- ▶ Tool cooling with coolant through spindle axis
- ▶ Tool cooling with air through spindle axis
- ▶ Coolant unit with filtration unit for tool cooling through spindle axis
- ▶ High-speed spindle unit 50 000 rpm
- ▶ Clamping taper – CAT 40, BT 40, CAT 50, BT 50
- ▶ Rotary table 4th and 5th controlled axis
- ▶ Workpiece measuring probe
- ▶ Tool checking probe
- ▶ Manual pallet changer, pallet size 760 x 460 mm
- ▶ Chip conveyor
- ▶ Chip bucket system
- ▶ Work zone upper washing-off
- ▶ Tool cooling with oil mist
- ▶ Centrifugal separator of oil mist and emulsion aerosol from work zone
- ▶ Collector of oil from coolant surface
- ▶ Control systems: HEIDENHAIN iTNC 530