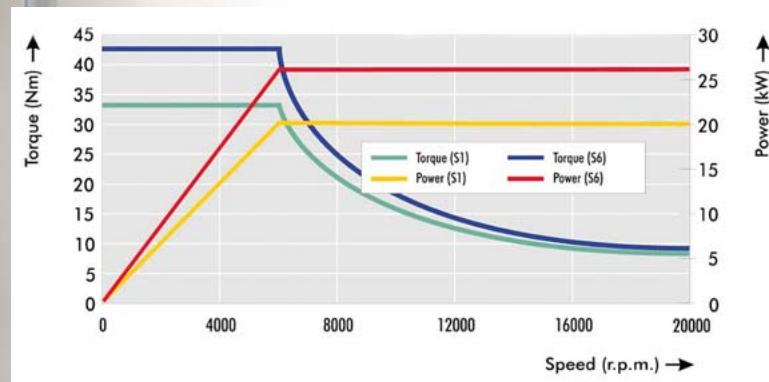


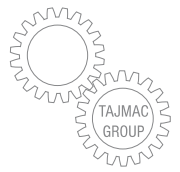
# VERTICAL MACHINING CENTRE

# MCV 1220 FA



- ▶ Two-axis NC milling head
- ▶ Torque motors in both axes
- ▶ High dynamics of drives
- ▶ High accuracy and speed
- ▶ Maximum rigidity of whole system
- ▶ Compactness and low weight
- ▶ Direct measuring in both axes



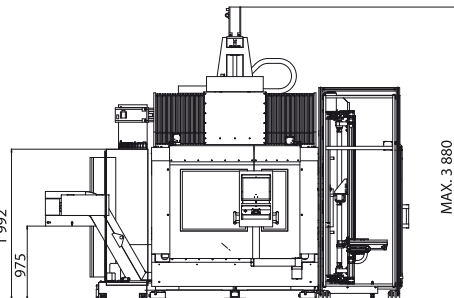
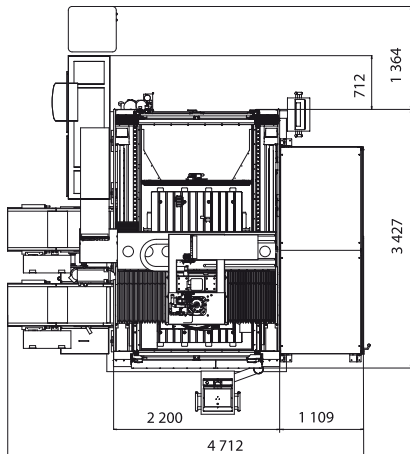


### STANDARD EQUIPMENT

- ▶ HEINDEHAIN iTNC 530 control system
- ▶ SIEMENS digital drives
- ▶ HEINDEHAIN direct linear measuring
- ▶ Spindle thermal stabilization
- ▶ Automatic air blasting of tool holder
- ▶ Tool outer cooling system
- ▶ Completely covered working space
- ▶ Chip conveyors with integrated coolant tank
- ▶ Working cycle end signaling

### OPTIONAL EQUIPMENT

- ▶ Coolant through spindle axis
- ▶ Tool cooling with min. quantity of lubricant
- ▶ Tool checking probe
- ▶ Workpiece measuring probe



### Work Travels

X-axis - cross saddle	1 000 mm
Y-axis - cross rail	1 800 mm
Z-axis - ram	600 mm

### Work Table

Working surface	1 200 × 2 000 mm
Number of T-slots	11
Size of slots - second slot from the right	18H7 mm
- other slots	18H8 mm
Span of slots	100 mm
Max. load	3 000 + 3 000 kg
Max. dimensions of workpiece	1 000 × 1 800 × 700 mm

### Distances

Spindle nose to table	100 - 700 mm
Work table to floor	700 mm

### Feedrates in X, Y, Z Axes

Max. work feed	20 m/min
Rapid traverse	40 m/min
Max. acceleration in axes	5 m/s <sup>2</sup>

### Accuracy

Measuring system in X, Y, Z axes	direct
Positioning - VDI/DGQ 3441 - in X, Y, Z axes	0.010 mm
Repeatability - VDI/DGQ 3441 - in X, Y, Z axes	0.006 mm

### Automatic Tool Changer

Number of ATCs	1
Number of tools in ATC	40
Tool interchange time (tool to tool)	3.5 s
Max. diameter of tool	
- with occupied adjacent tool pockets	110 mm
- without adjacent tools	160 mm
Max. length of tool	280 mm
Max. weight of tool incl. tool holder	6.5 kg

### Air Apparatus

Air pressure at inlet	0.6 - 0.8 MPa
Air consumption, approx.	6 m <sup>3</sup> /hour
Operational pressure	0.55 MPa

### Electric Power Requirements

Mains voltage	3 × 400 V / 50 Hz or 3 × 480 V / 60 Hz
Operational power input	45 kVA
Full load current	125 A

### Weights

Machine (incl. ATC)	14 500 kg
Steelbelt chip conveyor incl. coolant tank with pumps	2 × 800 kg
Independent ATC	850 kg
Filtering unit (without coolant)	270 kg

### Two-axis NC Milling Head - Spindle

Nominal power output	20 kW
Nominal torque	33 Nm
Rated speed	5 850 rpm
Maximum speed	20 000 rpm
Tool clamping taper	HSK-A63

### A-axis

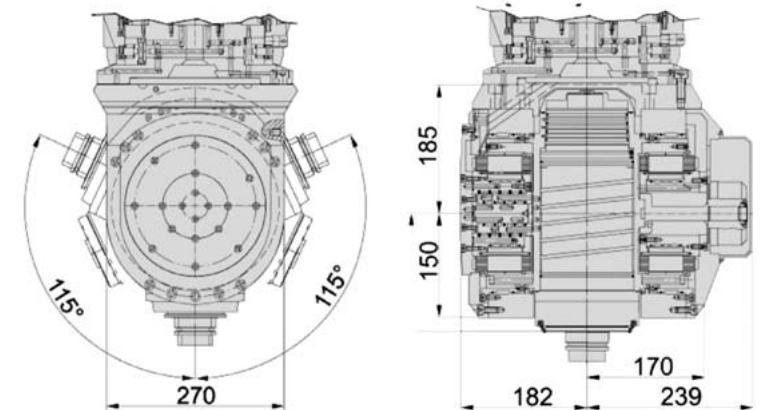
A-axis range	±115 deg
A-axis rotational speed	max. 60 rpm
Torque continuously	120 Nm
Maximum torque	240 Nm
Torque at locking	500 Nm

### C-axis

C-axis range	±200 °
C-axis rotational speed	max. 60 rpm
Continuous torque	350 Nm
Maximum torque	500 Nm
Clamping moment	2 000 Nm

### Accuracy (VDI/DGQ 3441)

Positioning (P) in A-axis (w/o electronic compensation)	±20 arc. sec
Positioning (P) in C-axis (w/o electronic compensation)	±10 arc. sec



Description of illustrations and numeric data may not always correspond with the machine latest version.

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