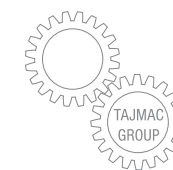




- Highly productive machine
- High dynamic and thermal stability
- High accuracy at machining
- Linear guideways in all axes
- Direct measuring in all axes
- Easy loading of big workpieces
- Completely covered work zone
- Favourable ratio machine area/ workpiece size
- Machining in 3 – 5 axes
- Turning capability
- Utilization of HSC technology
- Very ecological operation
- Ergonomical solution of machine
- Ecologically friendly

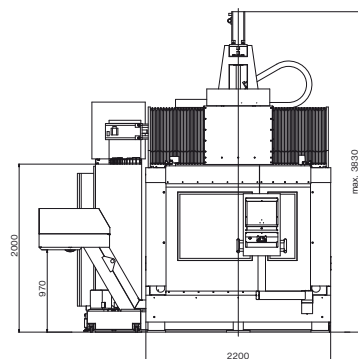
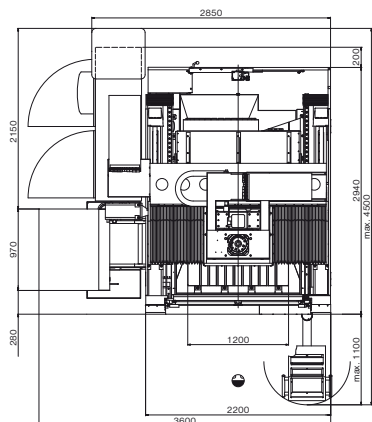


## STANDARD EQUIPMENT

- Digital drives
- Direct linear measuring
- Spindle thermal stabilization
- Tool outer cooling
- Completely covered work zone
- Chip conveyor with integrated coolant tank
- Working cycle end signalling
- Tool magazine – 30 tool pots
- Vibration diagnostics

## OPTIONAL EQUIPMENT\*

- Cooling through spindle axis
- Tool measuring probe
- Workpiece measuring probe
- CNC two-axis head
- Two-axis rotary table
- Hand-operated washing-off gun
- Turning capability
- Rack-type tool magazine with capacity of 50 – 130 tools
- Remote diagnostics



## Working travel

Osa X-axis – cross slide	1 000 mm
Osa Y-axis – cross rail	800 mm
Osa Z-axis – ram	600 mm

## Working table

Working area	1 200 × 1 000 mm
Number of T-slots	11
Dimension of slots – 2nd T-slot from the right	18H7 mm
– the other T-slots	18H8 mm
Pitch of T-slots	100 mm
Maximu load	3 000 kg

## Distances

Spindle nose to table	electrospindle	CNC two-axis head
	150 – 750 mm	65 – 665 mm

## Feeds in X, Y, Z axes

Max. working feed	40 m/min
Rapid traverse	40 m/min
Maximum acceleration of axes	5 m/sec <sup>2</sup>

## Accuracy

Measuring system in X, Y, Z axes	direct
Positioning accuracy – VDI/DGQ 3441 in X, Y, Z axes	0.008 mm
Repeatability – VDI/DGQ 3441 in X, Y, Z axes	0.005 mm

## Spindle unit

Type	electrospindle			
Max. spindle speed	15 000 rpm	18 000 rpm*	12 000 rpm*	14 000 rpm*
Max. spindle power output	31 kW	31 kW	30 kW	37 kW
Max. spindle torque	197 Nm	197 Nm	143 Nm	236 Nm
Clamping taper	ISO 40	HSK-A63	HSK-T100	HSK-A100

## Automatic tool changer

Number of tool pots in ATC	30
Tool interchange time (tool – tool)	3.5 sec
Tool maximum diameter	
– at fully occupied adjacent tool pots in ATC	80 mm
– at adjacent tool pots in ATC not occupied	115 mm
Tool maximum length	250 mm
Tool including holder maximum weight	6.5 kg

## Pneumatic unit

Air pressure at inlet	0.6 – 0.8 MPa
Operational pressure	0.55 MPa

## Electric power requirements

Connecting voltage	3 × 400 V/50 Hz	3 × 480 V/60 Hz
Operational power input	45 kVA	
Current at fully loading of machine	125 A	

## Weights

Machine (including tool changer)	11 500 kg
<b>Control system</b>	HEIDENHAIN, SIEMENS*, FANUC*

## CNC TWO-AXIS HEAD – Spindle\*

Maximum power output	23 kW
Maximum torque	72 Nm
Maximum speed	18 000 rpm
Clamping taper	HSK-A63

## A-axis

A-axis range	±115 °
A-axis speed of rotation	max. 60 rpm
Maximum torque	538 Nm
Torque at locking	1 500 Nm

## C-axis

C-axis range	±200 °
C-axis speed of rotation	max. 60 rpm
Maximum torque	356 Nm
Torque at locking	2 000 Nm

## Accuracy (VDI/DGQ 3441)

Positioning accuracy (P) – A-axis (without electronic compenzation)	±20 arc. sec
Positioning accuracy (P) – C-axis (without electronic compenzation)	±10 arc. sec

## TWO-AXIS ROTARY TABLE\*

### A-axis (tilting axis)

A-axis range	±95 °
A-axis speed of rotation	max. 25 rpm
Maximum torque (T. M. max)	960 Nm
Maximum weight of workpiece for continuous interpolation	560 kg

### C-axis (rotary axis)

	Turning**	Milling
Table clamping area (diameter)	Ø 600 mm	Ø 600* / Ø 800 mm
C-axis range	360 °	360 °
Speed of rotation	max. 400 rpm	max. 100 rpm
Maximum torque (T. M. max)	1 000 Nm	1 000 Nm
Braking torque	3 000 Nm	3 000 Nm

## Accuracy (VDI/DGQ 3441)

Positioning accuracy (P) – A-axis	12 arc. sec
Positioning accuracy (P) – C-axis	6 arc. sec

\*\* in combination with electrospindle having HSK-T100 tool configuration

Descriptions of illustrations and specifications may not always correspond with the machine latest version.

Manufacturer:  
**TAJMAC-ZPS, a. s.**  
 třída 3. května 1180  
 763 02 Zlín, Malenovice  
 CZECH REPUBLIC  
 Tel.: +420 577 532 072  
 Fax: +420 577 533 626  
 www.tajmac-zps.cz  
 e-mail: info@tajmac-zps.cz

Holding  
**TAJMAC-MTM, S. p. A.**  
 Via Gran Sasso 15  
 20092 Cinisello Balsamo (Mi)  
 ITALY  
 Tel.: + 39 02 66017878  
 Fax: + 39 02 66011457  
 www.tajmac-mtm.it  
 e-mail: tajmac@tajmac-mtm.it