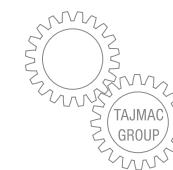




- Multifunctional 3- to 6-axis solution
- 1- or 2-axis CNC head
- Milling and turning technology
- Fixed or rotary table
- Highly productive over head gantry type machining centre
- High dynamics and temperature stability
- Fully symmetrical machine framework
- Box in box cross rail design
- High machining accuracy
- Direct scales measuring in all axes
- Easy loading of large workpieces
- Utilisation of HSC technology
- Fully enclosed work zone
- Minimal floor space requirement
- Ecologically friendly product

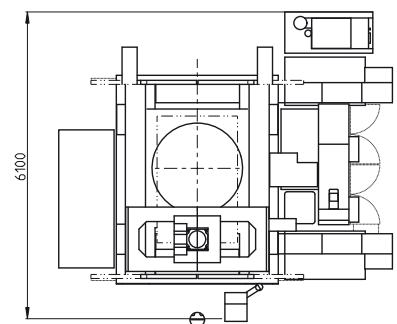
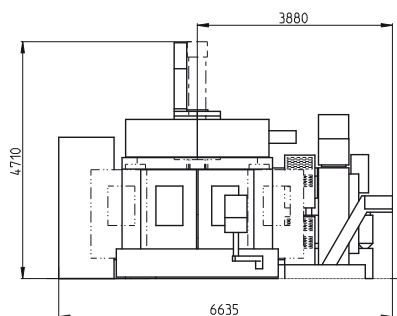


STANDARD EQUIPMENT

- HSK-A100 spindle unit
- Two rake swarf conveyors
- Air supply through spindle centre
- Fully enclosed work zone
- Automatic tool magazine
- Vibration diagnostics

OPTIONAL EQUIPMENT*

- Double-axis CNC head
- Spindle axis cooling with 5.5 MPa
- Spindle axis cooling with 7 MPa
- Workpiece probe
- Tool probe
- Fixed table 2 520 × 1 600 mm with an integrated rotary table Ø 1 500 mm
- Tilttable rotary table with
- Extraction of oil mist from working area
- External oil mist cooling
- Spindle axis oil mist cooling
- Manual rinsing nozzle
- Extended capacity tool magazine
- Remote diagnostics



		Operating travel		
		3 axis Spindle Unit Fixed Table	5 axis* 1 Axis head Integrated Rotary Table	5 to 6 axis* 2 Axis head Fixed Table / Integrated Rot. Table
X axis – binder	mm	2 300	2 300	2 300
Y axis – cross slide	mm	1 500	1 400	1 400
Z axis – slide ram	mm	1 050	1 050	1 050
Traverses				
Operating traverse at axes X, Y, Z			50 m/min	
Fast traverse X, Y, Z			50 m/min	
Acceleration at axes X, Y, Z			5 m/s ²	
Clearances				
Spindle face from table	mm	+200 to +1 250	-330 to +720	-130 to +920
Work table from the floor			805 mm	
Tool magazine				
Number of positions in magazine			48	
Tool exchange time			3.5 s	
Max. tool diameter			160 mm	
Max. tool length			380/615 mm	
Max. tool weight			15 kg	
Max. weight of all tools in magazine			600 kg	

Fixed table		
Table dimension	2 520 × 1 600 mm	
Maximum table load	15 000 kg	
Number of T-shaped notches × width	12 × 18 mm	
Dimension of the second T-shaped notch from the right	18 H7 mm	
Spacing of T-shaped notches	125 mm	

Rotary table – milling	
Work surface	Ø 1 800 mm
Max. table load	10 000 kg
Max. rotation speed	50 rpm
Max./permanent torque	8 840/6 640 Nm

Rotary table – turning	
Work surface	Ø 1 800 mm
Max. table load	5 000 kg
Max. rotation speed	250 rpm
Max./permanent torque	8 840/6 640 Nm

Pneumatic unit	
Inlet air pressure	0.6 – 0.8 MPa
Operating pressure	0.55 MPa

Power supply	
Supply voltage	3 × 400 V/50-60 Hz
Operating input power	90 kVA
Current under full machine load	170 A

Machine transport dimensions	
Length	4 700 mm
Width	3 250 mm
Height with dismantled Z-axis bracket	3 700 mm

Weight data	
Machine without tool magazines and electric cabinet	29 000 – 36 000 kg
Electric cabinet	800 kg
Swarf link conveyor	(2 × 250) 500 kg
Spindle unit cooling apparatus without fluid	95 kg
Brackets with operating units (cooling, lubrication,...)	120 kg
Independent rack magazine for 40 tools	850 kg
Control panel including arm	85 kg

Additional data	
Machine floor space	6 635 × 6 100 mm
Max. machine operating height	5 100 mm
Control system	SINUMERIK, HEINDEHAIN

CNC HEAD PARAMETERS		
Spindle	HSK-A63	HSK-A100*
Performance S1	21 kW	27 kW
Performance during overload S6 – 40 %	27 kW	31 kW
Torque S1	100 Nm	130 Nm
Toque during overload S6 – 40 %	130 Nm	150 Nm
Max. spindle speed	18 000 rpm	10 000 rpm
Nominal speed	2 000 rpm	2 000 rpm
Gear type	electrospindle	electrospindle
Spindle reinforcement for turning	–	900 Nm

B axis	
B axis range	+ 110 / -110 °
B axis tilt rate	60 rpm
Maximum torque	800 Nm
Moment when reinforced	4 000 Nm
Reinforcement - reinforcing pressure	5 MPa

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

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