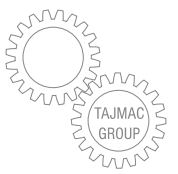




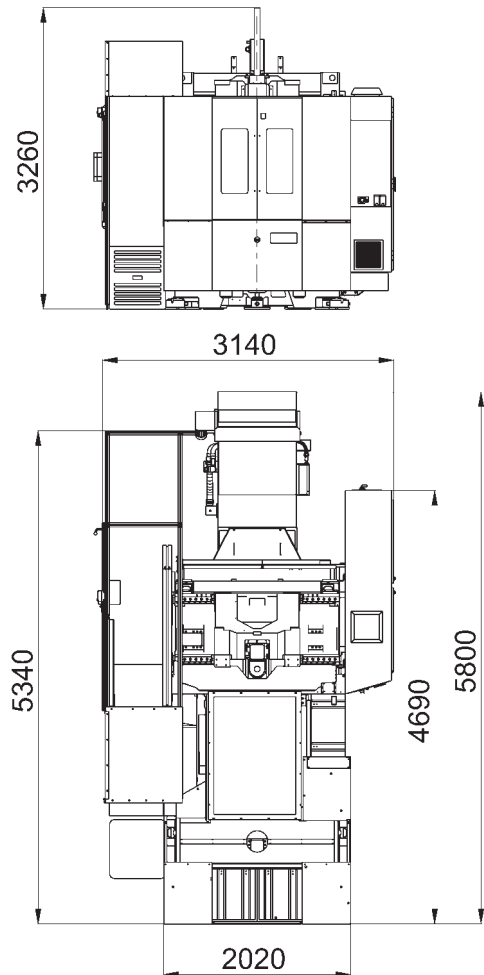
- High performance
- High strength and rigidity
- High dynamic and thermal stability
- Long-lasting high accuracy
- High reliability
- Model flexibility
- Ecologically friendly

H 630

TECHNICAL DATA



The H 630 is a horizontal milling centre equipped with pallet changer with two pallets and with tool magazine with automatic tool changing. The machine is determined to a productive complex machining of moulds, dies and components of flat or box shapes from steel, grey cast iron and light metal alloys clamped on the operating pallet. It enables to perform the milling operations in three mutually perpendicular coordinate axes (X, Y, Z). The rotary table (B-axis) enables the machining from more sides.



Working travels			
X, Y, Z axes	750 × 700 × 770 mm		
B-axis – table positioning	360 °		
Working table – pallet			
Pallet size	630 × 630 mm		
Pallet load	800 kg		
Workpiece max. dimensions – dia. × height	Ø 750 × 800 mm		
Height of pallet working surface above floor	1 100 mm		
Min. distance of spindle nose to table axis	130 mm		
Min. distance of spindle nose to table surface	50 mm		
Max. torque of B-axis	2 165 Nm		
Feeds			
Working feed / rapid traverse in X, Y, Z axes	50/50 m/min		
Acceleration in X, Y, Z axes	5 m/sec ²		
Spindle			
Tool interface	ISO 50	HSK-A63	HSK-A100
Maximum speed	8 000 rpm	18 000 rpm*	14 000 rpm*
Transmission type	planetary gearbox		electrospindle
Power output S1 / S6 – 40 %	20/30 kW	25/31 kW	25/37 kW
Torque S1 / S6 – 40 %	306/458 Nm	159/197 Nm	159/236 Nm
Accuracy (VDI/DGQ 3441)			
Measuring system in X, Y, Z, B axes	direct		
Positioning accuracy (P) of X, Y, Z axes	0.008 mm		
Positioning accuracy (P) of B-axis	6 arc sec		
Repeatability (P _{smax}) of X, Y, Z axes	0.005 mm		
Repeatability (P _{smax}) B-axis	3 arc sec		
Tool magazine			
Number of tool pots	56		
Tool in magazine maximum diameter:			
– at adjacent tool pots occupied	125 mm		
– at adjacent tool pots not occupied	250 mm		
Tool maximum length	450 mm		
Tool maximum weight (ISO 50)	25 kg		
Max. load of magazine	850 kg		
Tool interchange time	3.5 sec		
Automatic pallet changer			
Number of pallets	2		
Pallet interchange time	10 sec		
Pneumatic unit			
Air pressure at inlet	0.6 – 0.8 MPa		
Operational pressure	0.55 MPa		

Electric power requirements

Connection voltage	3 × 400 V/50 Hz, 3 × 480 V/60 Hz
Operational power input (depending on spindle and equipment)	38 / 51 / 64 kVA

Complementary data

Machine weight (including tool magazine)	17 000 kg
Control system	SIEMENS, HEIDENHAIN *, FANUC *

STANDARD VERSION

- Digital drives
- Direct measuring
- Planetary two-speed range gearbox
- SK 50 clamping taper
- Automatic pallet changer
- 2 pallets 630 × 630 mm
- Automatic tool changer – 56 tool pots
- Coolant unit with tool cooling system
- Tool holder automatic air blasting
- Rake-type chip conveyor
- Worm gear drive of rotary table (B-axis)

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
- Tool cooling with oil mist
- Automatic tool changer with capacity of 76, 96 or 246 tools
- Workpiece dimension checking probe
- Tool dimension checking probe
- Work zone washing-off
- Work zone manual washing-off
- Other type of chip conveyor
- Chip bucket (300 kg)
- Vapour exhaustion from work zone
- Machine 5-axis version
- Rotary table with torque motor
- Spindle for BIG-PLUS tools
- Remote diagnostics
- Supply of hydraulics into pallet
- Rotary glass wiper
- Vibrodiagnostics

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

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