SPECIFICATION

Travels			
Travel in X-axis			1 200 mm
Travel in Y-axis			1 000 111111
Travel in Z-axis			
B-AXIS:			120/+30°
C-AXIS:			360°
Feeds			
Rapid traverse in X, Y, Z axes			60 m/min
Max. working feed in X, Y, Z axes			60 m/min
Acceleration			6 m/s ²
Work accuracy (acc. to VDI / DGQ	3441)		
Position accuracy (P) in X,Y,Z axes			0,008 mm
Repeatability Ps max in X,Y,Z axes			
Measuring system	IDENHAIN LC1	15 direct meas	suring system
B-AXIS			1.0
Position accuracy			
Repeatability			6 arc sec
C-AXIS			,
Position accuracy Repeatability			
			··· 3 arc sec
Spindle - milling Tool clamping taper	150.40	HSK-A63	HSK-A100
Maximal speed	150 40	18 000 rpm	
Motor power output S1-100% / S6-40%		25 / 31 kW	25 / 37 kW
Max. spindle torque S1-100% / S6-40%			
Spindle nose to table plate	50-750 mm		50-750 mm
Spindle - milling/turning	30-73011111	30-73011111	30-73011111
Tool clamping taper		HSK-T100	HSK-T100
Maximal speed			10 000 rpm
Motor power output S1-100% / S6-409			48 / 71 kW
Max. spindle torque S1-100% / S6-409			300 / 452 Nm
Spindle nose to table plate			
Tool changer			
No. of pockets in changer HSK63/HSk	<100		- 50 / 30 pcs
Tool max. diameter			
Tool max. diameter without adjacent to	ools		160 mm
Tool max. length			
Tool max. weight HSK63/HSK100			8 / 15 kg
Tool change time			2,0 s
Connection to the mains			
		0	x /100V//50 Hz
Nominal voltage			
Operational power input			80 kVA
			80 kVA 150 A

STANDARD EQUIPMENT

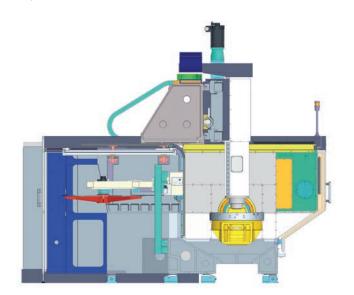
- Sinumerik 840D SL / Heidenhain TNC 640 / FANUC control system
- electrospindle with maximal speed of 15 000 rpm
- ISO 40 clamping taper
- continuously controlled rotary-tilting table of \emptyset 800 mm
- digital feed drives
- one tool changer for 50 tool
- Heidenhain direct measuring system
- pneumatic elements
- central lubrication system
- tool holder automatic air-blasting
- cooling unit with tool outer cooling system
- spindle thermal stabilization
- chip conveyor
- electronic handwheel
- vibrodiagnostics

OPTIONAL EQUIPMENT

- spindle units
- cooling through spindle axis of AD type coolant, filtering unit
- electrical cabinet air conditioning
- cooling through spindle axis of AD type air
- workpiece dimensions measuring probe
- tool measuring probe
- exhaustion of oil-mist from workzone
- oil-mist cooling
- work table of ∅ 1 000 mm
- handheld wash-out gun
- remote diagnostic installation
- machine hibernation
- technological softwaredigital handwheel
- visiport
- work cycle signalling

Basic data

Machine shipping dimensions (l x w x h) 4 200 x 2 400 x	3 00)0 m	ım
Machine weight (without accessories)	185	500	kg



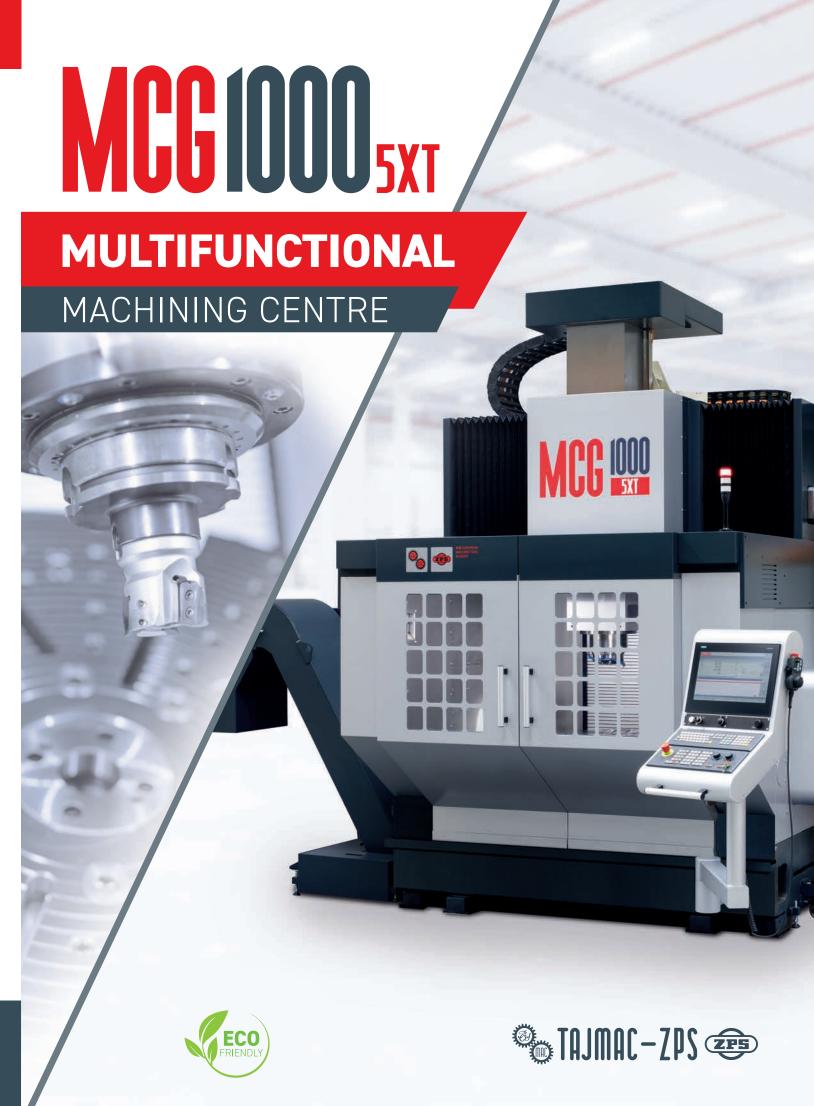


The depiction and the numerical data may not correspond to the latest model of the machine.

CONTACT

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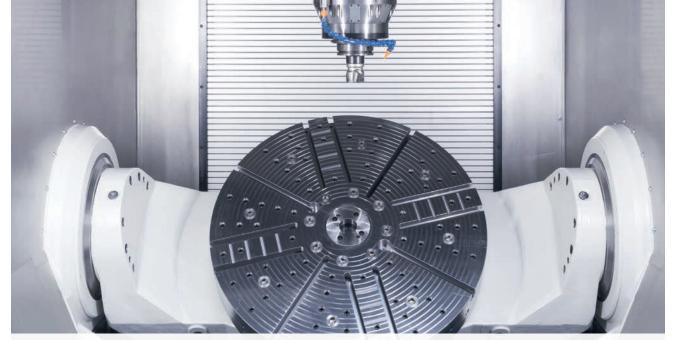
is a multifunctional machining centre of upper gantry-type designed for complex machining of spatially complicated and technologically demanding workpieces as well as of combined shapes, both within five-axis milling operations and full-featured turning operations. The centre enables milling in five axes, namely in three mutually perpendicular coordinate axes X, Y, Z, in the rotary C-axis - a rotary tilting table with built-in torque motor enabling turning operations, and in the tilting B-axis - a rotary tilting table with built-in torque motors.

It is a highly productive machine characterized by high dynamic and thermal stability and high accuracy of machining. Every working axis is travelling along linear guide-ways. A direct measuring system in all axes is a part of the basic configuration.

TECHNOLOGICAL CAPABILITIES OF THE MACHINE

The machine is intended for production of metallic parts for pressing, plastic-making, automotive and aviation industry. It is also well-suited for standard machining. It enables machining a workpiece from five sides. It allows milling, drilling, boring, reaming, thread cutting and turning technological operations. Featuring a 12 000 rpm spindle and utilizing ring motors in the rotary axes, the machine fully supports shape machining and HSC machining. The maximal diameter of the workpiece can be 1 000 mm, with weight of 1 300 kg for milling operations and 700 kg for turning operations.





ROTARY-TILTING TABLE Ø 1 000 mm

Working area		Ø 1 000 mm	
Workpiece max. dimension	(diameter x height)	Ø 1 000 x 500 mm	
Table max. load (α=±0°) milli	1 100 / 700 kg		
Table max. load (α=±90°)		700 / 500 kg	
Table axis			
Max. torque	B-axis (tilting axis)	C-axis (rotary axis)	
Mkmax S1/S6-40%	2x2 139 / 2x3 413 Nm	1 580 / 2 080 Nm	

TOOL CHANGER

No. of pockets in changer HSK63 / HSK100 / ISO 40	0 / 30 /50 ks
Tool max. diameter	110 mm
Tool max. diameter without adjacent tools	160 mm
Tool max. length	380 mm
Tool max. weight HSK63 / HSK100	8 / 15 kg
Tool change time	2,0 s





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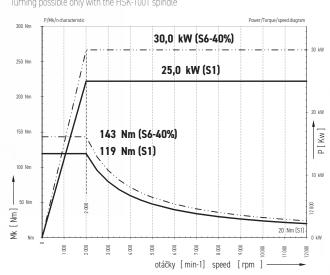
ROTARY-TILTING TABLE Ø 800 mm

Working area		Ø 800 mm
Workpiece max. dimension (diameter x height)	Ø 1 000 x 500 mm
Table max. load (α=±0°) milling	/turning	1 300 / 700 kg
Table max. load (α=±90°)		700 / 500 kg
Table axis		
Max. torque	B-axis (tilting axis)	C-axis (rotary axis)
Mkmax S1/S6-40%	2x2139 / 2x3413 Nm	1 580 / 2 080 Nm
Max. speed	50 rpm	1 200 rpm



SPINDLE UNITS

ISO 40	15 000 rpm	25 / 31 kW	159 / 197 Nm
HSK-A63	18 000 rpm	25 / 31 kW	159 / 197 Nm
HSK-A100	14 000 rpm	25 / 37 kW	159 / 236 Nm
HSK-T100*	12 000 rpm	25 / 30 kW	119 / 143 Nm
HSK-T100	10 000 rpm	48 / 71 kW	300 / 452 Nm
Turning possible only wit	h tha UCK 100T i	cnindlo	

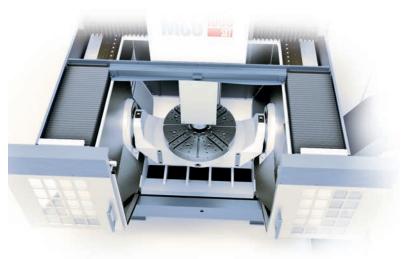


* the graph represents the HSK-T100 spindle

ERGONOMIC ARRANGEMENT OF THE MACHINE

The arrangement of the control elements allows easy and safe operation of the machine. The workzone is fully enclosed and enables usage of high-pressure cooling as well as of a suction device for oil-mist and aerosol removal. The concept of the enclosure ensures good access and visibility into workzone, thus enabling easy manipulation with the workpiece during its loading and unloading to/from the workzone and during machining technology setting-up.

The safety of work is ensured by passive and active elements preventing from contact with the rotating tools or machine moving wholes. The noise levels and vibrations of all operational parts fulfil the hygienic standards of European directives.



ECO FRIENDLY

The machine design prevents from leakage of coolant, lubricants and machining exhausts outside the workzone and minimizes their negative effects on the environment. The design and configuration of the machine meet the requirements of the European directive 2006/42/EC and fulfils the requirements of all safety standards required for the CE mark. The lubrication of movable and rotary parts of the machine (linear axes, electrospindle) is ensured by the application of automatic grease lubrication which prevents the cutting fluid and machine parts from contamination.

MACHINE KINEMATICS

