

MCM Tank G 5AX_TH_3000 5 Axis Horizontal Machining Centre UK

SPECIFICATION**Tank G 5AX_TH_3000****Work Area**

X-axis stroke	3000mm
Y-axis stroke	2500mm
Z-axis stroke	2500mm
X/Y/Z axes thrust	3000daN
X/Y/Z rapid feed speed	40/40/32m/min
X/Y/Z axes acceleration	3m/s ²

Pallet

Pallet dimensions	1250 x 1600mm
Max. fixture height	2500mm
Max. fixture rotation diameter	3000mm
Max. fixture dimensions	3000 x 2400mm (TBD according to automation solution)

Rotary Table

Maximum rotation speed	8rpm (worm screw transmission) 15rpm (torque motor transmission - Option)
Maximum load allowed on pallet	8000kg kg
Minimum resolution	0,0001 degrees

TILTING HEAD UNIT**Option 1 - Worm Screw
Transmission**

Rapid rotation speed	20rpm
A-Axis tilting angle (standard version)	175 degrees (+80 / -95)
Maximum torque (standard version)	8700Nm
Minimum resolution	0,0001 degrees

**Option 2 - Torque Motor
Transmission**

Rapid rotation speed	40rpm
A-Axis tilting angle (standard version)	175 degrees (+80 / -95)
Maximum torque (standard version)	3600Nm

Minimum resolution 0,0001 degrees

Option 3 - Torque Motor Transmission

Rapid rotation speed 35rpm

A-Axis tilting angle (standard version) 175 degrees (+80 / -95)

Maximum torque (standard version) 1000Nm

Minimum resolution 0,0001 degrees

Accuracy (as per ISO 230-2 Standards)

Accuracy of positioning - linear axis (A) 5µm

Systematic positional deviation - linear axis (M) 3µm

Repeatability - linear axis (R) 4µm

Accuracy of positioning - circular axis (A) 4 arc sec

Systematic positional deviation - circular axis (M) 2 arc sec

Repeatability - circular axis (R) 3 arc sec

Spindle

Tool taper HSK 100 / ISO 50 / HSK 63

Max. speed From 6000rpm to 30000rpm

Max. power Upto 115kW

Max. torque Upto 1300Nm

Accessories included Variable preloading bearings

Tool Magazine

Type Modular rack with tool movement system and exchange arm

Tool taper HSK 100 / ISO 50 / HSK 63

Number of tools (standard version) 80 / 99

Number of tools (Option - upto) 399 - 599 - 999

Tool mass 35kg (HSK 63 15)

Maximum length 600mm / 700mm (HSK 63 350)

Maximum diameter 325mm (HSK 63 200)

Tool changing time	2.5sec (HSK 100) / 3.0 (ISO 50)
Coolant Treatment Unit (Basic Version)	
Chip conveyor type	Scraping type
Total tank capacity	1500 litres
Filter type	Self cleaning (40 microns)
Standard low pressure system	
Flow rate	300/400litres/min (to be divided into the various machine functions)
Pressure	2 bar
Piece washing with nozzles	300/400 litres/min (250 microns)
Standard high pressure system	
Flow rate	28 / 40 litres/min
Pressure	20 / 80 bar

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