MCM Tank G Series 5AX TH MT 2000 5 Axis

SPECIFICATION	MCM Tank G 5AX TH MT 2000
Work Area	
X-axis stroke	2000mm
Y-axis stroke	1700mm
Z-axis stroke	2000mm
X/Y/Z axes thrust	3000daN
X/Y/Z rapid feed speed	45m/min
X/Y/Z axes acceleration	3m/s2
Pallet	
Pallet dimensions	d.1000 / d.1250 / d. 1400
Max. fixture height	1800mm
Max. fixture rotation diameter	2200mm
Max. fixture dimensions	2200 x 2000mm (TBD according to automation solution)
Rotary Table	
Maximum rotation speed	200rpm depending on the loaded mass
Maximum load allowed on pallet	5000kg
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	35rpm
A-Axis tilting angle (standard version)	175 degrees (+80 / -95)
Maximum torque (standard version)	10000Nm
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 T / Capto 8 / Capto C6
Max. speed	From 8000rpm to 18000rpm
Max. power	Upto 91kW
Max. torque	Upto 633Nm
Accessories included	Variable preloading bearings
Tool Magazine	
Type	Modular rack with tool movement system and exchange arm
Tool taper	HSK 100 T / Capto 8 / Capto C6
Number of tools (standard version)	80 / 199
Number of tools (Option – upto)	399 – 599 – 999
Tool mass	35kg (Capto C6 15)
Maximum length	600mm / 700mm (Capto C6 350)
Maximum diameter	325mm (Capto C6 200)
Tool changing time	2.5sec
Coolant Treatment Unit (Basic Version)	
Chip conveyor type	Scraping type
Total tank capacity	1500litres
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	300/400litres/min (250 microns)
Standard high pressure system	
Flow rate	28litres / 40litres
Pressure	20 bar / 80 bar

MCM Tank G Series 5AX TH MT 2000 5 Axis Machining UK