SPECIFICATION	Tank G 5AX_TH_1600
Work Area	
X-axis stroke	1600mm
Y-axis stroke	1500mm
Z-axis stroke	1850mm / 2000mm
X/Y/Z axes thrust	2000daN
X/Y/Z rapid feed speed	50m/min
X/Y/Z axes acceleration	$3m/s^2$
Pallet	
Pallet dimensions	800 x 1000mm, 1000 x 1000mm, 1000 x 1250mm, 1250 x 1250mm
Max. fixture height	1500mm
Max. fixture rotation diameter	2000mm
Max. fixture dimensions	2000 x 1600mm (TBD according to automation solution)
Rotary Table	
Maximum rotation speed	20rpm (torque motor)
Maximum load allowed on pallet	5000kg 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