

Quotation to Wilson Tool International	Date:	13 th December 2005
Okuma Model MA600-HB Horizontal Machining Centre Fitted with Okuma OSP-P200M CNC Control System		
Okuma MA600-HB		



Okuma Model MA600-HB Horizontal Machining Centre

Fitted with Okuma OSP-P200M CNC Control System

Machine Specification

Travels

'X' axis movement	1,000 mm
'Y' axis movement	900 mm
'Z' axis movement	1,000 mm

Spindle

Spindle nose	NT 50
Spindle speed std	6,000 rpm
Spindle drive	VAC 30/22 kW (10 min./cont.)

Pallet

Pallet size	630 x 630 mm
Max. weight on pallet	1200 kg
Pallet indexing	1°
Pallet change time	11 seconds
Max. work piece size	Ø 1000 x 900 high

Axis Drives

Feed rate, X, Y, Z-axis	1 – 60,000 mm/min
Rapid traverse, X, Y, Z-axis	60,000 mm/min

Accuracy

Positioning accuracy	+/- 0.004 mm/full stroke
Repeatability	+/- 0.0015 mm

Automatic Toolchanger

No of tools	40 (Options 60, 100, 150, 200, 240, 320, 400)
Tool selection	Random (fixed with Ø 100 tool or larger)
Tool shank	MAS403-BT50 (MAS2 through pullstud)
Max. tool dia./length (with adjacent tools)	Ø 140 x 450 mm
Max. tool weight	25 kg
Tool change time T-T	2 seconds
Tool change time C-C	4.4 seconds (MAS)

Machine Weight

Approx. 24,000 kg

Floor Space

3,380 x 6,140 mm

Standard Specification

ATC air blower

Tool release lever (BT50)

Spindle taper hole cleaning rod

Hand tools

Spindle cooling system

Maximum Acceleration in rapid traverse: 0.7G

Spindle –through-coolant supply system 15 kg/cm²

Chip air blower, nozzle type

Work light, fluorescent lamp

Internal Chip Conveyor (hinged type)

Chip pan

Two-layer signal tour (Blue; operation end lamp/Yellow; alarm lamp)

Foundation washers

Totally enclosed guard

2-Pallet swivel type APC (with two sets of MAS pallets)

CE mark and EMC

IEC standard

OSP-P200M 3D-E Kit Standard

Work co-ordinate system selection, 100 sets

Helical cutting function

Synchronised tapping II

Programmable stroke limit

200 sets each of tool length offset and cutter radius compensation

Co-ordinate calculation and area machining function

Co-ordinate conversion (MAP5)

User task 2 (math function)

Interactive MAP function (I-MAP)

Programme Storage Capacity, 512KB (1,280m) in tape length

3D Simulation Function

Simple load monitor

NC Operation monitor

Tool life management function

Auto power shut off function

Sequence stop

Schedule Programming Auto Up-Date

Wilson Tool International Requested Options

- * ATC 100
- * Shower Coolant
- * Through Spindle Air Blow
- * Coolant Wash Gun at Pallet Changer Position
- * Rotary Spin Window at Operator Door
- * Broken Tool Sensor (Renishaw NC4)
- * Renishaw Probe MP700
- * Lift Up Chip Conveyor