

# Quantum

*A range of superior co-ordinate measuring machines, designed from QCT's wealth of experience. Incorporating many state of the art features our standard and custom sized range of bridge style machines offer accuracy and excellent operating reliability.*



**Quantum**

## Manual



### Features

- Air bearing on all axes
- Air counter balanced Z spindle
- Measuring Range: X = 600mm, Y = 600/1000, Z = 400mm
- Individual locks and fine feed on all axes - manual version
- Renishaw MH20i System (As standard)
- Calibration Sphere
- Quality Pentium Computer
- **Inspect<sup>3</sup>D** Geometric Software
- Colour Printer
- Machine Stand and Computer Desk
- 1 Year Warranty

### Options

- **Active Option:** Temperature Compensation System
- **Probes:** PH10T/TP20 in lieu of MH20i
- MCR Changer Rack
- Inspection direct to CAD (**Inspect<sup>2</sup>CAD**)
- Offline programming (**Inspect<sup>off</sup>LINE**)
- **CNC Upgrade Kit:** Comprises ACC2000 CNC Controller, Joystick Controller, Motors and Drives

### Specification

Model	664	6104
Measuring Range: X	600mm	600mm
Y	600mm	1000mm
Z	400mm	400mm
Volumetric Accuracy:	E <sub>max</sub> = 10µm @ 20°C (ISO10360-2)	
Active Option	E <sub>max</sub> = 10µm @ 15°C - 25°C, @°C < 0.5/hr	
Single Point Repeatability:	2µm	
Measuring System:	Renishaw Optical Scales 0.5µm Resolution	
Measuring Probe:	Renishaw MH20i (Standard), others available	
Construction X Axis	Precision Aluminium Extrusion	
Y Axis	Granite Table with integral rail	
Z Axis	Precision Aluminium Extrusion (with pneumatic counter balance)	
Bearings	High stability preloaded air bearings	
Clamping Inserts	M8 threaded stainless steel inserts.	
Controls Manual	Locks and Fine Feeds all Axes	
Controls CNC	ACC2000 CNC Controller Joystick Controller Motors and Drives (Speed 400mm per second)	
Air Supply	4 bar (55psi)	
Air Consumption	4 CFM	
Maximum Workpiece Weight	500kgs	500kgs
Machine Weight	750kgs	1100kgs
Overall Height:	2200mm	
Work Table Height:	810mm	
Width:	1020mm	
Width Between Legs:	800mm	
Depth Manual	1100mm	1500mm
CNC	1400mm	1800mm

OTHER SIZES ON REQUEST

## CNC



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All specifications listed in the brochure are subject to change without notice.