

Axiom

THE BEST SELLING ABERLINK CMM JUST GOT EVEN BETTER

The Axiom too has been Aberlink's best-selling range of CMM with thousands of machines sold around the world since 2004.

The brand-new Axiom is the latest evolution of this well respected CMM. Employing a stiffer bridge design, incorporating a wider air bearing separation, means the latest Axiom has further improved on what was already a great package. Being faster, more accurate, and just as reliable, this improved Axiom is set to continue being the CMM of choice in it's target market. With three different measuring volumes available utilising Y-axis travels up to 1200 millimetres, there is an Axiom to suit every small to mid size application.

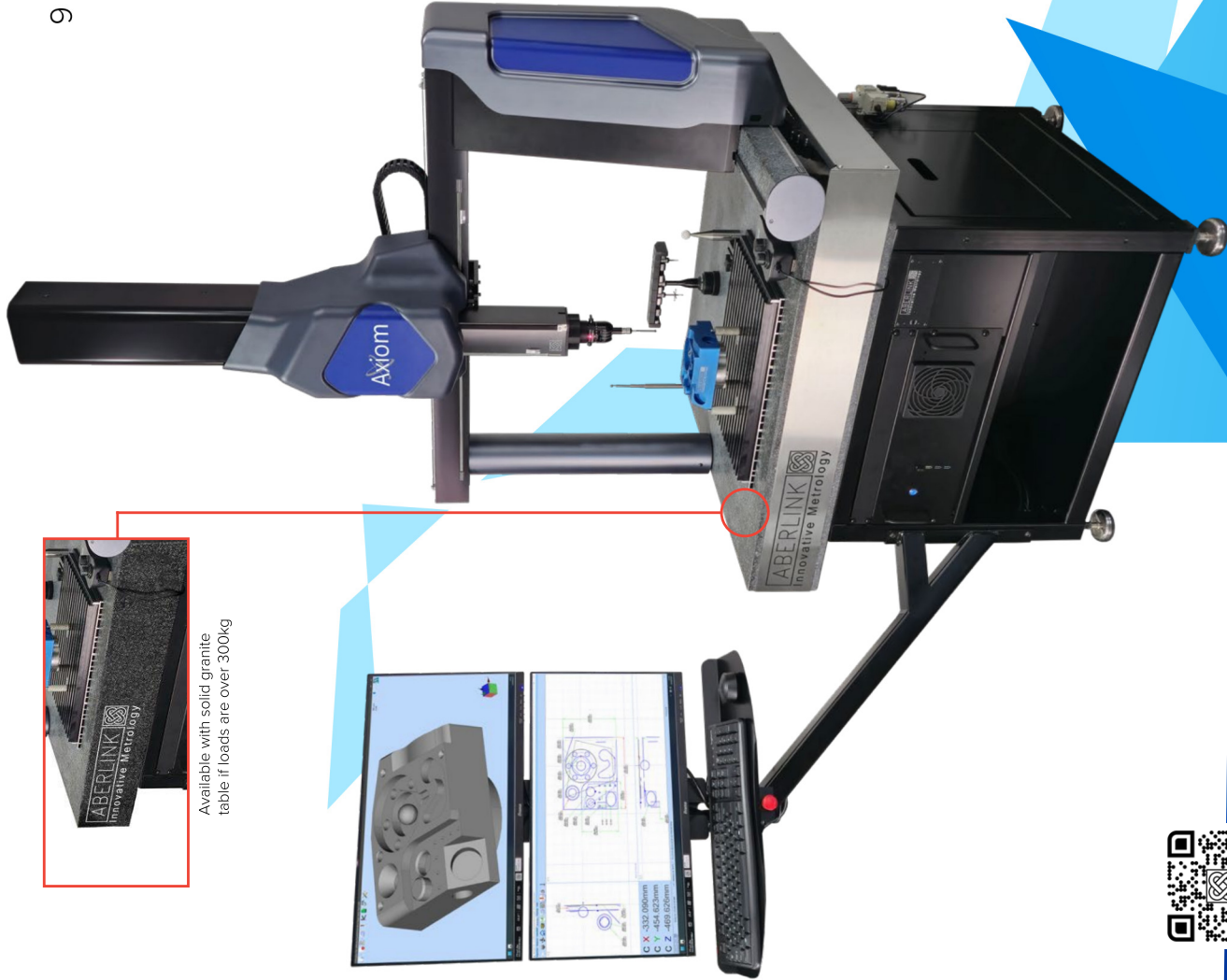
The all aluminium beam structure not only ensures that the Axiom has low inertia resulting in high acceleration to get the job done quickly, but also that the temperature of the beam rapidly follows the temperature of the room, ideal when the CMM is not housed in a controlled environment. Temperature compensation in the software reports results as if they had been measured at 20°C/68°F

The standard high-tech granite and aluminium table, originally developed for the optics industry, provides fantastic natural damping of high frequency vibration and the granite Y rail allows pre-loading of the bridge air bearings in both directions for superior accuracy.

Available as either a manual machine or with full CNC control.



Available with solid granite table if loads are over 300kg



Key Features:

- Shortest learning curve of any equivalent system
- Smallest overall footprint of any comparable size CMM
- Choice of Y axis sizes ranging from 600mm to 1200mm
- Suitable for the workshop environment
- Protection from environmental vibrations as standard
- Optimized friction free air bearings, aluminium bridge and granite table
- **Free software upgrades** - no maintenance fees or contracts

Common Probe Options:

- MH20i
- RTP20
- PH10T (w/TP20, TP200)
- PH10M (w/SP25)
- PH6M (w/SP25)

Machine Options:

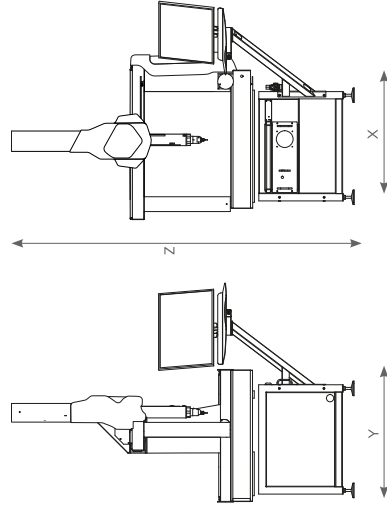
- Auto Temperature Compensation
- Touch Screen Joystick
- CCD Camera System
- Collimated Back Light Option
- Dual Monitor
- Fixture Kit



†Dual monitor arm optional extra

Technical Information:

Axis Travel (mm)	X 640
	Y 600, 900, 1200
	Z 500
Overall Size (mm)	X 1040
	Y 900, 1200, 1500
	Z 2320
Volumetric Accuracy:	TP20 (21 + L/250) µm *
	TP200 (2.0 + L/250) µm *
	SP25M (1.8 + L/250) µm *
Scale Resolution:	0.1µm
Optimum Temp Range:	18 - 22°C **
Operational Temp Range:	5 - 45°C
Table:	Honeycomb aluminium & granite or solid granite
Table Load Capacity:	300kg (Honeycomb) or 500kg (Solid)
Max. Velocity Vector:	850mm/sec
Max. Acceleration Vector:	850mm/sec²
Air Consumption:	100 l/min (3.53 cfm)
Required Air Pressure:	7 bar (100 psi)



*Maximum Permissible Error MPE, according to ISO10360-2, 2009 within the thermal limits defined for optimum temperature range.

**Insulation environment thermal limits: Rate of change <1°C/hr and <2°C/24hr 1 Temperature gradient <1°C/m