

The Measur3D can be supplied with our bespoke star stylus kit. The star stylus enables you to measure cylindrical (turned) parts when they are mounted horizontally and ensures excellent metrology performance and accessibility to features (i.e. circle diameters) measured in the X-Z or Y-Z projection planes.

The star stylus kit includes the calibration artefact, 3mm star stylus and a 6mm star stylus. Other bespoke star styli are available if required.

# Measur<sup>3D</sup>

## REVOLUTIONARY MANUAL CMM

The Measur3D is a revolutionary manual CMM. By using three rotary axis, Aberlink have created a compact and portable CMM design enabling it to be used where it is needed, on the shop floor, near your machine tools.

The Measur3D has been designed to optimize inspection as parts come off the machine tool, one op at a time. It gives immediate feed back to the machining process (manual tool offset correction), before final inspection, minimising scrap and rework costs.

Only needing a single-phase electricity supply (no compressed air), you can plug it in where you need to use it. A simple user interface has been developed for Aberlink measurement software, making it even easier to use on the Measur3D CMM, while retaining full functionality. After manually measuring the part, using 'touch mode' or 'constant contact scanning mode', critical features are automatically recognized, and dimensions automatically displayed. No other manual CMM can scan a part as quickly and easily as the Measur3D – it couldn't be easier!

Intuitive easy-to-use software and innovative mechanical design means you'll be measuring your parts within minutes of switching on the Measur3D machine, even with no prior CMM experience. With 5-micron volumetric accuracy, thanks to 40-nanometre resolution encoders, you can trust the inspection results. The extensive use of carbon fibre through the design also means it is able to cope with changing air temperature and maintain excellent metrology performance.

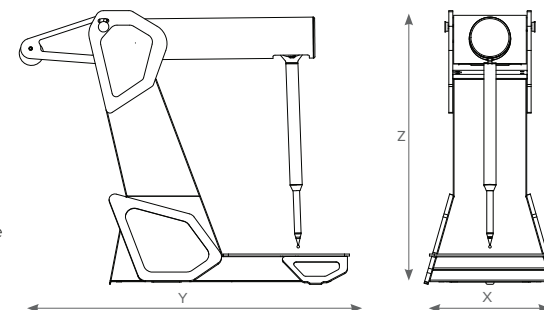
After Aberlink's 30 years of innovative metrology, we've gone back to our roots and created the perfect manual CMM for the first-time buyer, or to expand CMM inspection capacity on the shop floor.

Aberlink does not charge for CMM software updates or software maintenance contracts; We don't take advantage of our customers so the ongoing cost of ownership can be nothing (however we recommend and charge for an annual calibration).



### Technical Information:

|                         |                         |          |
|-------------------------|-------------------------|----------|
| Axis Travel (mm)        | X 280<br>Y 280<br>Z 150 | Minimum* |
| Overall Size (mm)       | X 335<br>Y 830<br>Z 725 |          |
| Volumetric Accuracy:    | (5.0µm + L/1000mm)      |          |
| Scale Resolution:       | 1.15µrad                |          |
| Optimum Temp Range:     | 18 - 22°C **            |          |
| Operational Temp Range: | 5 - 45°C                |          |



### Key Features:

- Compact portable design
- 3A electrical power supply, no air.
- Rugged shop-floor manual CMM
- Aberlink's easy-to-use manual CMM Software
- Continual scanning for size and form measurement
- Accurate to less than 5 microns anywhere in the measuring range
- **Free software upgrades** - no maintenance fees or contracts

\*Minimum measuring range specified because the usable volume isn't cubic

\*\*The machine should not be positioned where it will be subjected to rapid changes in temperature. Max rate of ambient temperature change should not be more than 1°C/hour.



Measur3D bench and computer mount available as an optional extra

