ABERLINK
Innovative Metrology

ECLIPSE
TOOLS NORTH AMERICA INC

DGI SUPPLY®

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Fulcrum

Revolutionary Manual CMM

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

Designed to optimize inspection as parts come off the machine one op at a time, feeding back to the machining process at the earliest opportunity, before final inspection, before more expense.

A simpler user interface has been developed for Aberlink measurement software, making it even easier to use on a manual CMM, while retaining full functionality. After manually scanning the part, critical features are automatically recognized, and dimensions automatically displayed.

Intuitive software and innovative design means you'll be measuring your parts within minutes of switching on the Fulcrum CMM, even with no prior operating experience. It will quickly become the tool of choice for jump-on, ad-hoc inspection, whether checking 1st off inspection, small batch quality control, or setting CNC machines.

The Fulcrum is the easiest CMM to learn and use.

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Key Features

- Small footprint allowing measurement right next to your machine tool.
- Bespoke software interface designed around the Fulcrum allows quick and easy measurement.
- Complete turnkey package, ready to measure out of the box with minimal setup.
- Programmable magnetic soft buttons allow you to quickly change between software features without using the mouse.
- Magnetic fixture templates allow you to quickly fixture your part, making sure that all points are taken accurately.
- First term volumetric error specification of 5µm.
- The Fulcrum only uses a single USB cable to connect and requires no air or external power.

Fulcrum powered by Aberlink 3D making measurement easy

The whole philosophy for Aberlink is to make measurement easy. Aberlink 3D software has been written by engineers for engineers and sets the industry standard for simple-to-use software. As a component is measured a representation of it is built up on the screen. The user simply clicks on the measured features to call up dimensions exactly as they would appear on a drawing.

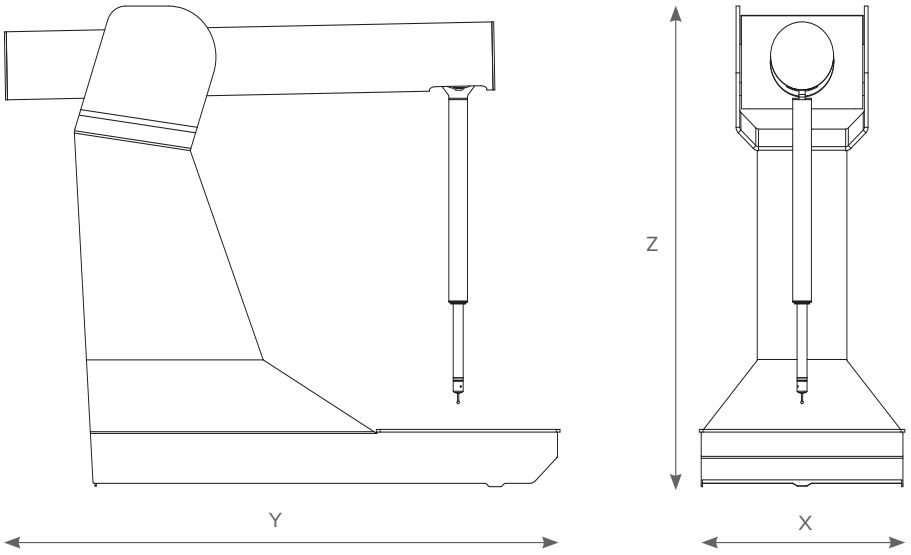
We have tailored our software around the Fulcrum giving you a responsive and intuitive experience to measure your parts at every step of your machining process. Software features can be easily mapped to magnetic soft buttons allowing you to perform all aspects of your measurement without taking your hands off the machine by simply hovering over the buttons to switch between different measuring modes.

Inspection reports can be in the form of fully dimensioned graphical representations as created on the screen, or tabulated reports in various formats that can show nominals, tolerances, errors, pass/fails, geometric tolerances etc. These reports can all be output as an Excel spreadsheet.

Popular throughout the world, Aberlink's measurement software provides the user with a powerful, yet easy-to-use interface. This substantially increases component through-put and vastly reduces the learning period for new users.

Specification

Measuring Volume	X 280mm* Y 280mm* Z 150mm*
Overall Size	X 335mm Y 830mm Z 725mm
Motion	Manual
Suitable For	Shop Floor/Inspection Room
Volumetric Accuracy	5.0µm
Scale Resolution	1.15µrad
****Optimum Temp Range**	18 - 22°C
Operational Temp Range	5 - 45°C
Air Required?	No



*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.