

# HORIZON

Aberlink's most accurate CMM. Ever.



## Starting the linear drive revolution

Frictionless linear drives are the key to the **Horizon's** fast and exceptionally smooth motion. The innovative kinematic isolated drive structure is completely independent of the CMM structure.

By driving the bridge through its centre of gravity the Horizon's design gains all the metrology benefits of a CMM with a raised Y axis guideway, but without having the inconvenience of associated limited access.

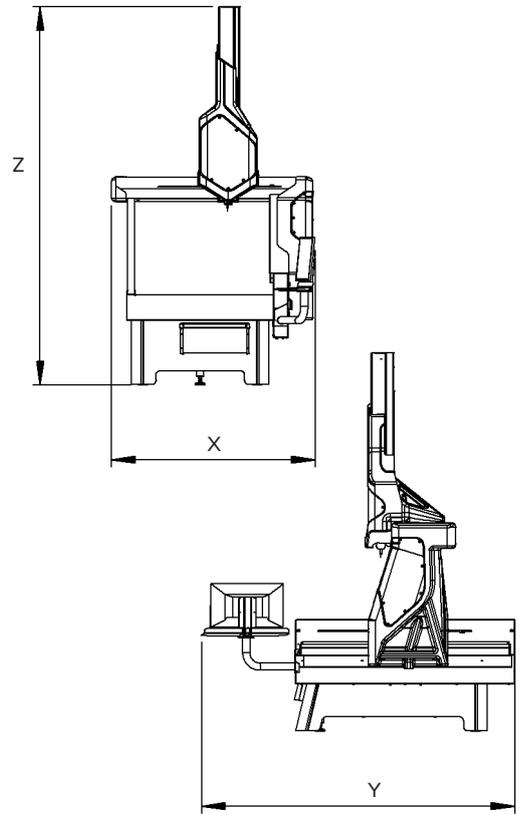
Being non-contact, the linear motors will also have no wearing parts and provide the perfect solution for CMM drives, improving reliability and reducing maintenance.

The result of all this novel design is that we have now produced a stand-out machine with fast, smooth, silent motion ideally suited to contact scanning and with a first-term accuracy specification of under two microns.

- 1 Linear motors offer frictionless, smooth, silent motion
- 2 Drives applied through the centre of gravity improves both speed and accuracy
- 3 Thermal isolation of motors from metrology structure
- 4 Smooth motion ideal for contact scanning
- 5 Most accurate machine in Aberlink range

### Specification

<b>Type</b>	CNC
<b>Measuring Volume</b>	X 800mm Y 1000, 1500, 2000mm Z 600mm
<b>Overall Size</b>	X 1450mm Y 2200, 2700, 3200mm Z 2670mm
<b>Table</b>	Solid Granite
<b>Table Load Capacity</b>	1000kg
<b>Accuracy</b>	ISO10360-2: TP20 (1.9 + 0.4L/100) $\mu\text{m}$ TP200 (1.8 + 0.4L/100) $\mu\text{m}$ SP25M (1.75 + 0.4L/100) $\mu\text{m}$
<b>Scale Resolution</b>	0.5 $\mu\text{m}$
<b>Max. Acceleration Vector</b>	1020mm/sec <sup>2</sup>
<b>Max. Velocity Vector</b>	1020mm/sec
<b>Air Consumption</b>	50 l/min (1.8 cfm)
<b>Required Air Pressure</b>	5 bar (60 psi)



## Horizon CMM 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. Software modules are also available for off-line programming of parts from a CAD model and also for comparing measured results to the CAD.

Aberlink 3D software is revolutionary. 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.

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

