



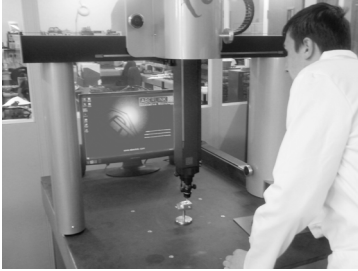
Calibration Case Study 11/2011

Company: Tyneside Standards Ltd

••••• Axiom too

Calibration Case Study

Tyneside Standards Ltd
Axiom too



Having established an excellent reputation for the quality of the company's services, [Tyneside Standards Ltd](#) was the subject of a management buyout in 1998. Since the MBO the well known U.K.A.S. accredited calibration laboratory has experienced an extensive expansion programme that has considerably increased the scope of its calibration services. The now comprehensive 'one-stop-shop' calibration provision covers subjects including mechanical, dimensional, electrical instrumentation, pressure and vacuum, temperature, torque, mass and flow.

As a natural extension to the company's calibration activities, Tyneside Standards now manage the on-site quality systems of many of their customers. This cost-effective satellite service is provided with the help of Tyneside Standards' advanced, computerised gauge management system.

Demand for Tyneside Standards' growing calibration services prompted a move to much larger, Jarrow based premises, the company's new headquarters now houses a wide range of efficient laboratories and administration functions. To ensure an even speedier calibration turnaround from the new site, an ambitious investment programme enabled the new facility to be equipped with the best possible equipment. A key element in the company's expansion was the purchase of an advanced [Axiom too Coordinate Measuring Machine](#) from Aberlink Innovative Metrology. Explaining the reasons behind the CMM's purchase, Company MD Harry Thompson recently reported. "Our program of diversification and expansion has been very much driven by the specific needs of both our current and potential customers. As requests for Tyneside Standards to provide a comprehensive mechanical inspection service has grown significantly over the years, we realised that a high-quality CMM was vital to the implementation of this service. Since the recent installation of our new Aberlink CMM, in addition to increasing the volume of inspection work previously undertaken with our existing metrology equipment, we are now able to carry out precise subcontract inspection work on an extremely diverse range of products. Recent CMM work includes the subcontract inspection of precise automotive and aerospace components and in-depth measurement surveys on oil industry pipelines. Our new Axiom too is also proving invaluable for the very accurate calibration of customers' jigs and fixtures."

"Before purchasing, as our proposed Coordinate Measuring Machine was such an important strategic purchase, we weighed-up the available CMM options carefully. In addition to matching our accuracy and capacity specifications, Aberlink's Axiom too out-performed each of the other CMMs that we considered. Informed by the experience gained by calibrating tens of thousands of measuring instruments and measuring machines each year, we were impressed by the Axiom too's robust construction and its impressive technical specification. As Aberlink's software is so easy to use, our calibration operatives quickly became extremely proficient in the machine's use. Due to its exceptional speed of operation, the Axiom too is now able to get through an impressive daily amount of accurate inspection and calibration work."

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Available in [manual](#) and [CNC](#) variants, the cost effective Axiom too is the best selling CMM from the largest UK owned Coordinate Measuring Machine manufacturer – Aberlink Innovative Metrology. Aberlink’s popular Axiom too CMM can truly be described as the complete Inspection Centre; high measuring accuracies are achieved through the use of the latest metrology techniques and advanced in-house manufacturing methods. The Axiom too boasts an all aluminium bridge resulting in a very low thermal mass, rendering the machine ideal for use either in controlled environments or within less than perfect shop-floor conditions. Thanks to the Axiom too’s use of advanced materials, the machine’s reduced inertia results in class leading speed of operation. For increased accuracy air bearings of optimised stiffness are employed on all axes, whilst a granite Y Beam allows preloading of bridge bearings in both directions. Borrowed from the Aerospace industry, the CMM’s sturdy component support consists of an advanced granite/aluminium honeycomb construction, this technology, provides natural damping and further improves the machine’s thermal properties. Despite the Axiom too’s generous measuring volume 640x600x500 or 640x900x500, the machine’s compact design occupies a relatively small footprint, with the controller and all peripherals housed within the Axiom too’s workbench.

Equally rewarding when used by the novice or an experienced CMM operator, the easy to use Axiom too utilises Aberlink’s famous, intuitive 3D software, ensuring greater user productivity and profitability. A welcome bi-product of any Aberlink CMM inspection routine is that a simultaneous picture of the measured component is created on the computer screen. Dimensions between the measured features, mirroring those that appear on the component drawing, are then picked off as required. In essence this ‘smart’ software represents an intelligent measuring system that is able to automatically recognise and define the various features being measured. [Aberlink 3D is the easiest to use CMM software currently available](#), and a complete novice is usually able to perform relatively involved measurement routines after just 5 minutes training.

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