



Production areas included verification of components on machine.

FARO® Gage Plus improves traceability for high-precision engineering company

TRAIN train parts must endure a lot of wear and tear. To ensure that their products are fit for heavy duty, British precision engineers J.J. Hardy & Sons use FARO's measurement devices for quality control.

From Hartlepool in Northern England, J.J. Hardy & Sons supply precision-machined components to the rail, heavy equipment and automotive industries. Making those tight-tolerance parts involves frequent in-

spection for conformance to design drawings. Checks range from basic diameter control through on-machine verification to full geometric dimensioning and tolerancing (GD&T) reviews.

The company has been using a Silver series FaroArm in production and quality inspection since 1998. As a satisfied customer, J.J. Hardy chose FARO again in spring 2008 when they needed another portable measuring device to take on new projects. This time, they opted for the compact Gage Plus.

Besides its high accuracy, J.J. Hardy & Sons particularly value the device's tracing of components and reporting features, which enable the company to demonstrate to its customers that its production processes are both reliable and reproducible. Managing Director Andrew Pailor says he also appreciates that he can export the data captured with his personal coordinate measuring machine (CMM) Gage Plus into a spreadsheet for further analysis and trend recognition.

>>

4 GOOD REASONS

The FARO PowerGage, along with the FARO Gage, are the industry's first personal line of coordinate measuring machines.

1 Contact Measurement: Interchangeable probes mean the FARO Gage can be used to measure different geometries.

2 Ease of use: Universal hinges make it easy for the operator to move the Gage around all kinds of objects, minimising fatigue.

3 Volume of 1.2m: Small parts and moulds can be easily processed in the Gage's 1.2m (4ft) measuring volume.

4 Portability: The Gage is a portable device for jobs needed on different areas of the shop floor.



WWW.FARO.COM/GAGE

INSPECTION

>> "FARO Gage shows us the outcome of our processes," says Andrew Pailor. "It helps us prove to our customers that the components we made for them correspond to the drawings. Thanks to FARO, we can deliver the accuracy they demand."



SUMMARY

J.J. Hardy produce general CNC precision machined components and therefore have to inspect tight tolerance machined components to ensure conformance

to drawings. They are now able to carry out inspection - including basic diameter checks to full GD&T features - with the FARO Gage Plus.



Using FARO software CAM2 Measure comparison of the actual staircase with the CAD data is easy.

ABOUT J.J. HARDY & SONS

Over 150 years of engineering excellence, established in 1856, J.J. Hardy & Sons enjoys a longevity and reputation few other companies can claim to have. The company started manufacturing as brass founders and general engineers, and has evolved into one of the best equipped CNC machine shops in the

United Kingdom, utilising the latest technology and techniques to keep their services at the forefront of engineering. Quality and customer satisfaction are always their priorities, and they have been ISO 9000 approved since 1990.

@ More Information: WWW.JJHARDY.CO.UK

ABOUT FARO

FARO develops and markets computer-aided coordinate measurement systems and measurement software worldwide. The portable measurement equipment from FARO permits high-precision 3D measurements and 3D comparisons of parts and complete systems within production and quality assurance processes. They are used for inspecting components and component assemblies, production planning, and inventory documentation, as well as for the investigation and reconstruction of accident sites and crime scenes. They are also used for digital scanning of historical sites. Today, approximately 8,600 customers worldwide with more than 18,000 installations have put their trust in the company's measurement systems (NASDAQ: FARO).

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