FARO®

user story 02/07

LSNW have remodelled numerous tools for BAE Systems Hawk aircraft.

LSNW Group companies grow with FARO

LSNW'S *inspectors previously favoured the fixed bed CMM but are now firm believers that the FARO Laser ScanArm® is the way forward.*

LSNW (Lofting Services North West) was started by the two brothers Richard and David Fielding in 1997 to supply printed mylars (Lofts) to the local aerospace companies and in 1998 they purchased their first CNC milling machine.

The design department of the LSNW group "CAD CAM Engineering" has sustained steady growth but since the introduction of the FARO Laser ScanArm (a combination of the FaroArm® and Laser Line Probe) they have been able to accept more orders so they could triple their volume of work.

The increase in turnover has largely been attributed to their new reverse engineering capabilities with the help of the Laser ScanArm. Managing Director Richard Fielding and Quality Manager Simon Kelly first saw the FARO Laser ScanArm at a FARO Open House and immediately saw the opportunity to reduce costs and improve lead times dramatically. Following the Open House they arranged an on-site demonstration which involved the inspection of a complicated aerospace intake mould tool (while still on the CNC machine) with the Laser ScanArm – demonstrating it's reverse engineering capabilities.

LSNW thus decided to order a FARO Laser ScanArm 10ft., Geomagic software for reverse engineering and PowerINSPECT for inspection. In the first 7 months of owning the measurement arm it has travelled thousands of miles to and >>

YOUR PARTNER AT FARO

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4 GOOD REASONS

1 Mobility: The FARO ScanArm's hard probe and FARO Laser Line Probe can digitize interchangeably without having to remove either component. Users can accurately measure prismatic features with the arm's hard probe, then laser scan sections requiring larger volumes of data (more than 19,000 points per-second) — without adding or removing attachments, untangling cabling, or having to use a separate CMM to import the data.

2 Flexibility: Thanks to the use of multiple rotary axles, the measuring probe can be positioned at the point to be measured, even if it is difficult to reach.

3 Counterbalance: The internal weight counterbalance in the FaroArm enables measurements to be completed beneath its clamping frame and allows unencumbered work.

4 Universal mounting: The measuring arm can be mounted and operated very easily, regardless of the surface being worked on.

@More Information:
WWW. FARO.COM/SCANARM

INSPECTION
REVERSE ENGINEERING

The ScanArm measures at a speed rate of more than 19,000 points per second.

>> from customers' sites to scan press tools, form tools, aircraft wing skins and car body panels.

For BAE Systems Hawk aircraft over 60 tools already have been remodelled enabling CNC machining and much reduced lead times giving cost savings to the customer. When not scanning on customers' sites the arm is set up in the inspection department and the inspectors that previously favoured the fixed bed CMM are now firm believers that the FaroArm is the way forward, so much so that they are now pushing to buy a second one.

ABOUT LSNW

Established in 1996, LSNW Ltd are an 'independent' company. With many years combined experience in the aerospace and automotive industries, they can offer knowledge based engineering solutions to meet customer requirements. Based in Manchester; LSNW are specialists in CNC machining, design, tool making and pattern making offering a quality service at affordable rates.
Specialists in CNC milling, toolmaking, modelmaking and patternmaking, their staff fully understand the need for flexibility and accuracy whilst working to strict deadline within given budgets.

@More Information:
WWW.CNCPRECISION.INFO

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.

@More Information:
WWW.FARO.COM