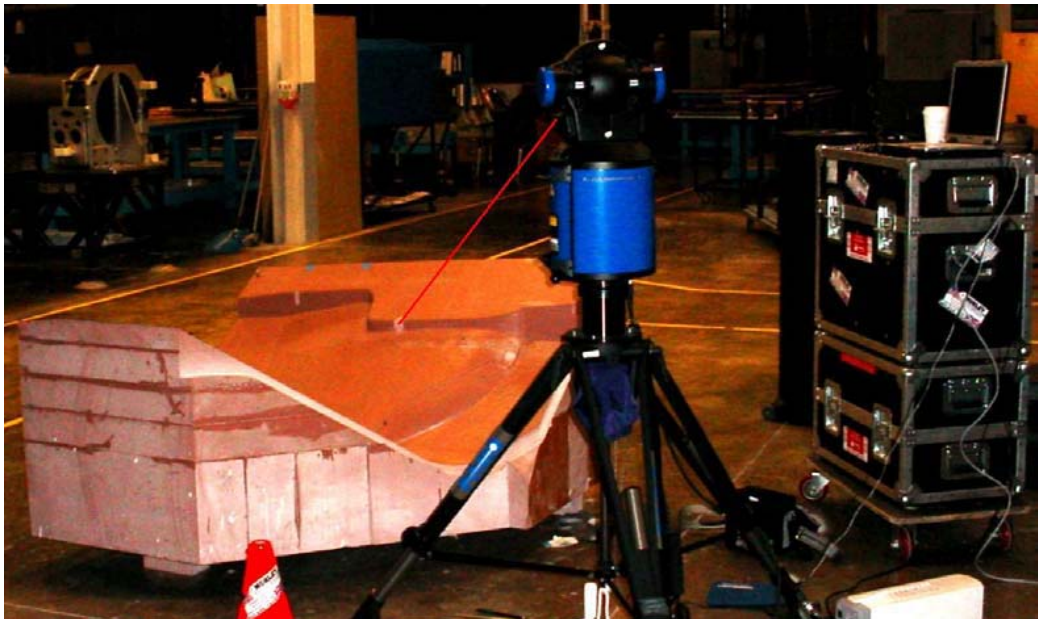
MORLEY

Precision Measurement Solutions for Manufacturers

Mini Case Study: Aerospace - Composite Materials

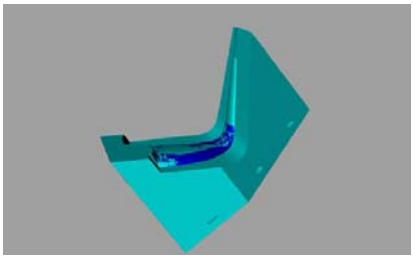
Project: **Measure foam winglet molds**
Location: **Composite Solutions – Auburn, Washington**

The surfaces of the mold for the Winglet needed to be inspected after machining and compared to the CAD model. The Faro Laser Tracker was used to generate a point cloud and to mark out for the trim line. The information was given to the customer in an IGES file and a report was generated showing the data within a specified plus or minus tolerance zone.



Laser Tracker measuring complex mold surfaces

The cad model for the machined foam mold with some of the measured complex surfaces showing. This is only one half of the mold. The other half of the mold has the same procedure performed.



A winglet on an airplane wing

For an example of a larger mold inspection, please review our Marine Yacht Mold mini-case study featuring a reverse engineering project for a 70-foot yacht mold.

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