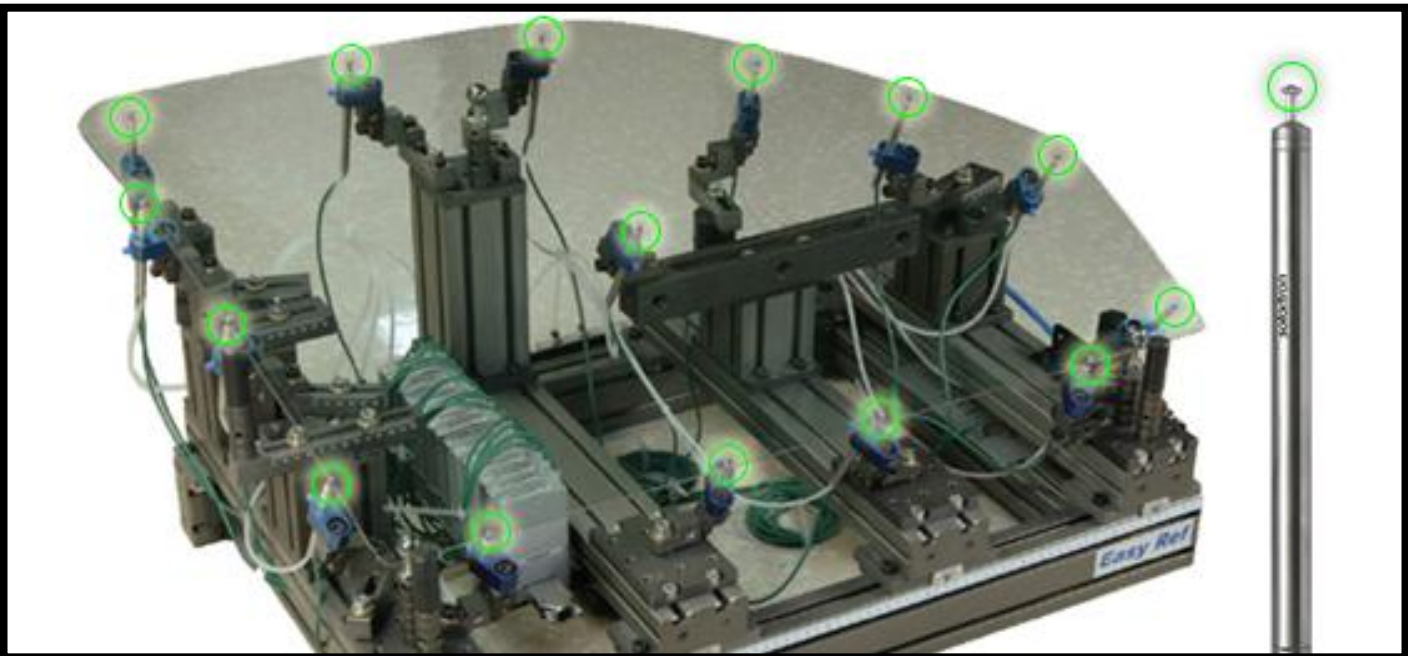


Application Story

Automotive

Glass gauging system using Ultra Feather Touch probes



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The Product

The Ultra Feather Touch probe carries a low 0.03 N tip force, and can be used on delicate materials, or surfaces that cannot be marred or scratched. The probe carries an accuracy of 6 microns, with outstanding repeatability. Like other Solartron Digital probes, it comes pre-calibrated, and is a viable alternative to non-contact solutions. The probe can quickly and easily be connected to a readout, PLC, or computer via the Solartron Orbit[®] 3 network.

Range:	10 mm
Accuracy:	Up to 0.06% of reading
Resolution:	Up to 0.05 μm
Repeatability:	Up to 0.15 μm

The Challenge

Taking measurements of glass for automotive and industrial applications needs to be precise and delicate, to ensure no marring of the surface.

The Solution

The stations, designed by a partner, house & protect a PC, printer and other interface components for lab or shop-floor control of metrology stations. Up to 337 Orbit[®] Digital Probes can be used with a single Orbit[®] Manager providing rapid, repeatable and reliable data acquisition.

Application-specific featuring implements the range of Orbit[®] Digital Probes to it's strengths, such as nylon tipped Feather Touch probes for products such as automotive glass.

Product specific software is written to the customer's requirements enabling full statistical process control. Remote access and information sharing are made possible by the Orbit[®] Manager's TCP/IP connections. The Orbit[®] Manager is targeted at end users, other system providers and fixture manufacturers in need of an Orbit[®] controller.



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