

THE CUSTOMER

International Automotive Components (IAC) is a global supplier of automotive interiors (instrument panels, cockpits, door panels, center consoles and more).



REQUIREMENTS

Design, manufacture and installation of end of line electrical test stations for a new cockpit assembly line.

RESULTS

- Reliable test equipment based on established Sorion technologies
- Flexible test system to cope with increased product variation
- Full traceability using the Orion™ database



THE CHALLENGE

The project involved designing, building and installing **2 online electrical test stations and 1 offline rework station** for IAC's new cockpit manufacturing facility at Halewood, Liverpool.

IAC required the solution to be fully integrated with other plant-wide systems and fixtures. The installed systems had to be robust and reliable to allow for 24/7 operation testing 45 cockpits per hour.

Collection and storage of detailed test result information was also part of the brief.



End of line test station at IAC Halewood

BACKGROUND

IAC Halewood features an extremely flexible cockpit just-in-time (JIT) assembly line for several vehicle models, substituting a fixed carousel with 42 Automated Guided Vehicles (AGVs). The AGVs enable mass customisation and can assemble up to 4 million variants on one production line that can be easily reconfigured by re-taping magnetic guidance stripes on the shop floor.

The primary requirement for the **electrical test stations is to test the cockpits for connectivity and part number traceability** in order to detect any connections which have been missed during the assembly process.

After a thorough requirements capture exercise Sorion designed a system based on their established electrical test technologies, with proven reliability in hundreds of installations within the automotive industry around the world.

The equipment was designed to allow maintenance, upgrade and modifications to be easily obtainable and comes with excellent support packages.

