

Improving the efficiency of the quality auditing process for an Automotive car seat manufacturer.

Providing a complete solution to a Tier 1 supplier, to improve their torque measurement, data collection and reporting processes.

When one of the UK's largest suppliers to the Automotive industry required a new solution to help improve their quality auditing processes, Crane Electronics stepped up to offer a torque management solution utilising their innovative torque products.

The customer's assembly line manufactures a variety of different mechanical frames which are utilised in the assembly of car seats for hundreds of different car manufacturers and models around the globe. The car seat is one of the most important structures in an automobile with safety and security of the construction of supreme importance.

The process that the supplier needed assistance with was to streamline and improve the efficiency of their quality auditing stage by improving the speed at which they could test and measure the torque of the seat fastenings and also develop a better way of recording this data and make it transferable.

The supplier wanted to be able to report all of their quality audit data with all of the car manufacturers they supplied to give them complete traceability over the car seats supplied to them.

The torque experts at Crane devised a plan to help improve the process utilising products and software from their range of torque management solutions, proven in hundreds of applications in the Automotive industry around the globe.

Crane provided a solution combining their WrenchStar Multi digital torque wrenches, IQVu torque data collectors, OMS (Opta Management System) software and Web Services.

The WrenchStar Multi, working in combination with the IQVu data collector, was utilised to test and audit individual critical joints and fastenings located around the assembly of the seat frame.

Customer: A UK-based Tier 1 automotive component supplier, providing vital parts to car manufacturers around the world.

The Challenge: To improve the efficiency of their quality auditing processes and ensure their data is easily recorded and transferred.

Crane Products: To utilise our torque software (OMS) alongside our WrenchStar Multi digital torque wrenches and IQVu torque data collectors.



Our torque measurement solutions are utilised by a number of automotive tier 1 & 2 suppliers, in applications like the manufacture of car seat frames and systems.

All data collected from the individually identified joints was then transferred from the wrench to the data collector and, in turn, uploaded with ease onto the OMS software which is installed on the customers computer system.

OMS is our own in-house developed torque software package which features a fully encompassing range of functions that provide a company-wide solution for torque related activities. Once the data is uploaded into OMS, time-and-date stamped data logs could be downloaded with ease into reports such as on Microsoft Excel which could be transferred over to the car manufacturers all in one smooth, easy process.

The implementation of the new quality audit process utilising Crane's products and software helped the customer to easily and quickly provide daily reports of critical production data, immediately after performing the audits.

This customer had previously been manually recording and logging data and reports were time consuming. This new process completely removed this and improved the time and efficiency of reporting, allowing them to spend more time on other important projects within the business.

John Jones, UK Sales Manager at Crane Electronics Ltd, comments:

"We were delighted to be able to provide such improvements for the customer and our years of experience meant that we were able to implement the solution quickly and efficiently delivering immediate results.

The customer has commented that they very quickly saw the benefits as their Engineers were saving lots of time during the quality auditing process, and the car manufacturers they supply greatly appreciated the added transparency and traceability of the process we had implemented."

For more information about how we can provide a solution for your business, please contact us online at www.crane-electronics.com or alternatively, email us at sales@crane-electronics.com.



Above: The WrenchStar Multi and IQVu torque data collector allow the customer to record data accurately alongside outlined specifications, and transfer the data efficiently.

Below: Crane's complete torque software system, OMS (Opta Management System).



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