



Proven products
Innovative services

Visteon - Milan Profile

APPLICATION

- In-Line Vehicle Sequencing System (ILVS) providing Error Proof Processes

KEY BENEFITS

- No mis-identified product sent out since system implementation
- Discreet product component traceability
- Increased efficiencies over previous manual process



Visteon's Milan, Michigan facility produces painted bumpers for a number of auto manufacturers. These bumpers are shipped to assembly facilities where they are incorporated within the corresponding color vehicles in a stringent assembly sequence.

Racks used to ship the bumpers to the assembly plants - loaded in the associated bumper assembly sequence - were coordinated through manual and visual efforts. Checks and double-checks still resulted in occasional mis-sequencing, which adversely affected the manufacturing process downstream.

Visteon recognized the need for bar-coding 'batches' of bumpers and associating them with the shipping racks in the proper sequence. **SYS-TEC** Corporation was brought in to analyze their operations, and with important input from Visteon's associates, a custom ILVS Error-Proofing system was developed.

Using Intermec 710 radio frequency hand held computers, racks are now scanned, and bar-coded sequence numbers associated with the bumpers - in the proper sequence - are scanned, verified, and 'attached' to the rack. The 'error-proofing' process alerts the user to any loading and shipping errors, requiring corrections to be made before shipments take place.

A WINNING COMBINATION AND TEAM EFFORT...

Visteon's IT department and **SYS-TEC** engineers determined complex integration routines to proprietary legacy systems would have been required to reference the needed production and sequencing data. In a joint effort, Visteon and **SYS-TEC** identified critical data elements required for the application. This resulted in the development of an 'interceptor' application which pulled key information from label format data strings rather than from legacy systems. **SYS-TEC** engineers then utilized this data in the error-proofing application.

SYS-TEC became familiar with Visteon's processes, operations, and systems, and worked with all areas - including the IT department - to help in the development of the seamless ILVS error-proofing application.

"I can tell you that since the ILVS Error-Proofing system was launched on February 4th, 2002, we've not had any mis-identified bumpers sent to a client."

Keith T. Osbourne
Section Supervisor,
Milan Plant

Visteon - Milan Profile - ILVS Error-Proofing Process

ONE SUCCESS LEADS TO ANOTHER...

As a result of the success of the ILVS Error-Proofing project, Visteon's operations looked to expand error proofing into other areas.

In several of their bumper assemblies, differing trim levels of the finished vehicles affect component parts built into the bumpers. Items such as fog lamps, grills, bezels, and side marker lights may be assembled into some bumpers, and not others. Some parts - particularly those with wiring assemblies - require serial and lot traceability as well.



'RELATIONSHIP PARTNERSHIPS'

SYS-TEC Corporation engages in 'relationship partnerships.'

We do not promote a 'canned' solution and mandate that a client conform to the functionality of it. Rather, we work with a client to develop a complete understanding of current systems, processes, and requirements, and react to those needs accordingly.

Our extensive and comprehensive expertise in a variety of applications, industries, and technologies allow us to recommend improvements where identified. Thus, in a 'win-win' scenario, **SYS-TEC** and the client establish a meaningful relationship and partnership.

With **SYS-TEC Corporation**, you may rest assured the solution will always meet *your* unique needs.

SYS-TEC re-visited the Visteon operations, and again with the input and support of Visteon, created an enhanced version of the original ILVS Error-Proofing application.

Depending on the work cells the bumpers are associated with, the application allows users to scan and accurately identify component parts being assembled into a bumper. Not only does this scanning ensure the correct component is being integrated, it allows for traceability of all serialized components. All data relating to the ILVS and error-proofing activities now reside safely in an Oracle database, and can be queried as necessary for any details which might be required in the future.

After the bumper has been correctly assembled, the ILVS module ensures correct loading and sequencing for the final assembly downstream.

