



Project Title

Fores Elastomers India Private Limited former Varroc Group of Companies

Company Overview

Fores Elastomech is into engineering and manufacturing of technical rubber products for automotive and non-automotive industries. Fores currently operates from one manufacturing plant with full-fledged Technical and Development Center, best in class in house mixing facility, state of the art molding shop and one of the best sheet metal processing lines. Fores have warehouses across India and in Europe and South America and technical and commercial support center in Sao Paulo, Brazil and Frankfurt Germany.

Project Overview

- Supply Chain RM (Raw material) to FG (Finished Product) Traceability Project
- Real time integration of SAP with QR printers, sensors, controllers through web services and Odata ensuring 99.99% uptime.

Issues/Pains

- Fores manufactures critical components of Automotive Industry failure of product can be fatal and hence complete end-to-end traceability of FG to RM is important.
- OEM directly deducts payments from Invoices without prior intimation this leads to loss of revenue.
- Difficult to trace FG (Which machine, Shift, Shift In charge, Batch, Shelf life, Rubber compound composition, Tool, QA In charge, Raw materials, Vendor etc).
- Difficult to control Rubber compound + Tool combination on machine. Human errors leads to in process rejection, add production lead time and results in failing customer commitments.
- Stores is NOT able to issue RM on FIFO basis
- Shop floor work environment has elevated temperature of 250-300 Deg C, human driven control and checks pose sever challenges

Solution

- All RM inward has SKU wise QR code. QR code has vital info on RM, Shelf life, and Vendor, Receipt date, batch.
- QR code implemented can be scanned over Smart phones, low end hand held scanners etc.
- QR Code is implemented at each production stages to exhibit necessary checks and controls. Example If Rubber Compound + Tool matches with SAP data only then Desma Machine will start.
- Machine throughput is directly integrated with SAP
- Serial Number is engraved on FG to ensure traceability is not compromised. QC cleared input from engraving machine is integrated with SAP updating FG stock

Benefits

- Customer Satisfaction Index increased phenominally by demonstarting End to end product traceability
- Easy to carry out RCA (root cause anlysis) and pin point the fault
- Overall productivity on shop floor has increased
- Reduced instances of customer rejection by 80%
- In process rejection has drastically reduced by 70%