Case of enhancing MES system through GT(Green Tire) barcode

Project Description

- Customer: Domestic Tire manufacturing company
- Solution: MES(WIP/RAS/EDC etc.), FMB, EAI
- Range: Raw inventory / semi-finished products / molding / curing / inspection / stocking (linked to production plan)

01 The Challenge

- Deployed barcode system to the entire production process (conversion from quantity management system to barcode management after GT)
- Secured the foundation of Global Standard MES(C#.NET)
- Quality control and management of receipts and disbursements of individual finished product by barcode
- Reflected client’s needs of informatizing existed manual work, integrated the development system at the division level and implemented the interface with the legacy system

02 The Solution

- Established post-production financing management system (semi-finished product, finished product) through application of GT barcode after molding, LOT tracking, and first-in-first-out and quality issue blocking management system
- Management of profit to plan through the connection with production plan (real-time / monitoring)
- Established of goods warehousing processing system with Gantry warehouse before WMS (finished product warehouse)
- Established RFID balance (GT) management system

03 Benefits

- Completed individual and linkage quality management for raw inventory and finished products according to GT barcode management (improvement of GT quality, loss of curing & reduction of scrap and lessening of rework)
- Reduced Loss of logistics work (minimized mixed loading)
- Improved reliability of production planning results (real-time inventory identification)
- Improved product quality through first-in-first-out (GT) and management (loss of curing and loss and scrap)
- Maintained proper inventory level for rubber (compound)