PlantTalk:MES
Your Solution to Shop Floor Automation

Your shop floor is where the heart of your operation is . . . It is where products are made, processes performed, orders assembled, shipments packaged and shipped, and revenue generated. With this understanding, we developed **PlantTalk:MES**, a fully integrated Manufacturing Execution System for the automotive shop floor.

It is designed to control and direct the operations at the shop floor level, assisting the shop personnel in getting their jobs done accurately and efficiently. This can be achieved by focusing on a very specific area of your operation, or can be implemented across your entire plant floor or extended enterprise. PlantTalk MES is comprised of several modules that can be integrated as a whole or implemented separately, as needed.

Automation Solutions

❈ Build

PlantTalk:Build controls the entire manufacturing or assembly line build process, including intuitive operator instructions on touch screen monitors and PLC/machine interfaces for data collection and validation.

❈ Sequence

PlantTalk:Sequence is an integrated and comprehensive solution for automotive sequencing requirements. PlantTalk:MES supports simple and complex implementations alike, from pick-and-pack to build-in-sequence. Our robust and proven sequencing solution can be implemented in the timeframe of only a few weeks for short-turnaround takeover business.

❈ Pack

PlantTalk:Pack is an automated, scan-enabled pack-off system. Its front-end functionality provides for part label printing on demand, based on PLC triggers, scanning or a touch screen user interface.

❈ ContainerTrack

With PlantTalk:ContainerTrack, you gain visibility into the status of your shipped containers, relative to their normal turnaround times. You can then track down your missing containers more efficiently.

❈ PLCconnect

PlantTalk:PLCconnect collects production statistics and cycle times by interfacing directly with your machines and fixtures. It stores the metrics in a database for viewing and exporting to other systems for graphical representations.

❈ Kanban

PlantTalk:Kanban software module provides for capability for your shop floor to manage inventory to ensure parts used in the build and assembly process are replenished line-side in a timely fashion and are delivered to the correct station for your build process.

Benefits of Shop Floor Automation

Automated Data Collection

- Reduction of manual data collection errors that resulted in the rejection of manufactured product based upon quality audit.
- Provides on-line data retrieval that significantly reduces hard copy record storage costs as well as the time related to off-line retrieval of archived manufacturing data (product recalls or litigation defense).
- Significantly streamlined data collection process through barcoding and machine interfaces.
- Increased throughput in processes that are bottlenecks in the manufacturing process, receiving, shipping, material issue, inventory movements, cycle counting, physical inventory, labor and production reporting.

Automated Production Reporting

- Elimination of manual data entry errors.
- Elimination of material transaction omissions.
- Real-time collection of WIP inventory for month-end processing.
- Real-time production reporting to ERP system. Product available to ship and visibility to manufacturing planning and scheduling.
- Required accountability for materials scrapped in manufacturing process (automated materials issue minus quantities produced equals yield loss and scrap).
- Elimination of significant labor hours related to manually opening work orders, issuing materials, reporting production and scrap.

Quality Control

- Provides on-line retrieval of data, which substantially reduces the time required to approve the product for shipment.
- Provides a single source of retrieval of manufacturing data that was previously stored on disparate systems.
- Significantly reduces the human resources required to audit all manufactured lots by placing manufacturing rules into software that must be utilized in order to produce product.

Materials Control

- Accuracy of materials reporting and consumption.
- Accuracy of scrapped materials tracking.
- Recognition of raw materials inventory levels for improved manufacturing planning and purchasing.
- Identification of manufacturing operations where raw materials are being scrapped.
- Automation of WIP calculation via automated materials issue by manufacturing process.

Product Traceability

- Limiting the impact of the cost of a product recall via automated collection of critical material and product lots.
- Limitation of product liability by storing historical product manufacturing information that can be easily retrieved in order to defend a future product liability lawsuit.

Software Built Around You

PlantTalk MES is supported by Datanational's support and development team around the clock. As your one-stop shop for innovative business solutions, this system is field tested, customer endorsed and positioned to help you meet today's growing business demands as well as those of the future.