LTIMindtree

Case Study

Productivity Gains with Real-Time Visibility and Order Sequencing for EU-Based Auto Manufacturer

Client

The client is a leading European manufacturer of commercial vehicles and engines for industrial and marine applications.

Our Experience

LTIMindtree introduced paperless processes deploying digitization for pick/put order fulfillment, warehouse control, real-time data on stock and material shortage with traceability, improving worker productivity, overall takt time for order fulfillment, and order sequencing for assembly lines.

Challenges

- ✓ High inaccuracy in order fulfillment process due to manual error during pick/put activity.
- ✓ Need for a system to improve and offer sustainable product quality using deviation handling.
- ✓ Unscheduled stoppages due to lack of synchronization between main assembly, subassembly lines, and shared production lines.
- ✓ Need for automatic capturing of line disruptions and stoppages to address lowered productivity.

LTIMindtree Solution

- ✓ Designed IoT platform to manage pick and put system in warehouse.
- ✓ Deployed IoT platform to connect and operate controllers as per warehouse management system pick/put order information.
- ✓ Implemented visual quality management which shows graphical real-time representation of deviations.
- ✓ Implemented transport order management for full traceability of load and real-time calculation of pickup and delivery time.
- ✓ Implemented production module in Apriso by integrating it with ERP for order start and order sequence management, maintaining continuous synchronization between assembly lines and sub-assembly lines.

Business Benefits

Increase in worker speed and productivity with improved accuracy in order fulfillment and elimination of pick and put error.

Through-put improvement by reduced downtime resulting from order sequence management.

Improved accuracy of the quality check process.