

## Case Study

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# End-to-End MES Implementation Optimizes Production for Leading Automobile Manufacturer



## Client

The client is a leading manufacturer of automobile driveline, and drivetrain components and systems.



## Our Experience

LTIMindtree leveraged their MES, and quality assurance and discrete manufacturing experience across production, warehouse, and logistics functions, to standardize the QA process and framework.



## Challenges

- ✓ Unavailability of cost-effective and self-driven MES development team to expedite clearing project backlog
- ✓ No provision for just-in-time manufacturing
- ✓ Need for a global template leveraging industry best practices for global rollout of MES solution across geographies/plants
- ✓ Lack of single source of truth for shop floor data
- ✓ Disparate systems across multiple plants and lack of process and application standardization resulting in high IT operational cost



## LTIMindtree Solution

- ✓ Implemented an end-to-end manufacturing solution including monitoring and status tracking
- ✓ Developed a customized application and implemented various modules including test orders, plant floor manager reporting, downtime console and dashboard, OEE, UTC time standardization, and pack out process enhancements
- ✓ Leveraged LTIMindtree's test automation framework to support entire application functional testing, regression testing, and set up automation testing
- ✓ Designed and supported MES cloud transition program
- ✓ Supported MES rollout at new sites and upgrade to existing sites

## Business Benefits

**25%-30%**

reduction in rework by the implementation of testing framework.

**>99.9%**

system availability.

Delivered a cost-effective application support model by leveraging offshore resources to accelerate the application development process and reduce the backlog.

Implemented report standardization, ensured accurate parts traceability across various operations, and reduced scrap and warranty cost by minimizing parts variation.

Automated audit reporting for defective parts.

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