



CASE STUDY

MES-led Enhanced Operational Efficiency for Global Automobile Drivetrain Manufacturer

Digital Transformation -> Industry 4.0

Client

The client is a global leader in designing, engineering and manufacturing smart automobile driveline and drivetrain components. The company is delivering power to move the world since more than 25 years.

Challenges

The client wanted a Just-in-Time manufacturing solution that can provide a global template, leveraging industry best practices for global rollout of MES solutions across plants and geographies. The current scenario posed below challenges:

- Lack of single source of truth for shop-floor data
- No visibility of plant-wide operations data, and hence, not able to leverage big data and advanced analytics
- Disparate system across multiple plants and lack of process & application standardization, resulting in higher IT operational cost
- Need for a solution that is more service-oriented and modular

LTIMindtree Solution

- Leveraging LTIMindtree's expertise in providing MES services, implementation of an end-to-end manufacturing solution was done that helped in comprehensive monitoring and status tracking.
- LTIMindtree's solution helped in enhancing flexibility to create test orders, plant floor manager reporting, downtime console & dashboard, OEE, UTC time standardization and pack out process enhancements.
- LTIMindtree also created a roadmap for MES cloud transition.
- Test automation framework was deployed to support functional and regression testing for entire application and an automation testing framework was also set up.
- Templatization of the solution helped in faster rollouts across new sites.

Business Benefits



Implemented standardization, accurate parts traceability across various operations



Reduced scrap and warranty cost by minimizing parts variation



Automated audit reporting for errored-out parts



25-30% reduction in rework through implementation of testing framework

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