



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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