

Case Study

MES Solution Delivers End-To-End Product Traceability for German Auto Component Supplier



Client

The client is a **Germany-based Tier 1 auto component supplier with manufacturing plants in Austria and Poland.**



Our Experience

LTIMindtree leveraged its MES, domain consulting and maturity assessment framework expertise, to develop a unified MES solution, enabling end-to-end product traceability, ERP and middleware integration, and automation of inter-channel communication.



Challenges

- ✓ Non-availability of end-to-end traceability of plant production operation from supplier to client.
- ✓ Multiple third-party legacy apps and isolated systems made it difficult to track overall manufacturing operations.
- ✓ Lack of integration between ERP and shop floor systems.
- ✓ Bandwidth constraints of internal teams for assessment and blueprinting of MES solution.
- ✓ Aggressive timeline to complete the business requirements, blueprinting, and fit-gap assessment.



LTIMindtree Solution

- ✓ Conducted value discovery workshop to chalk out various business processes under logistics and manufacturing including receiving, warehouse management, shipping, production, and quality.
- ✓ MES and discrete domain consultants engaged with customer business users and program team to understand program objectives and to define the goals and roadmap accordingly.
- ✓ SAP and operational technology teams helped in defining the integration methodology as per ISA-95 standard.
- ✓ Built MES solutions roadmap including detailed fit-gap analysis, MES solutions blueprinting, low-level design and technical design details, and costs of product selection.
- ✓ Developed a single MES core solution template for five plants across Germany, Poland, and Austria.

Business Benefits

25%-30%

cost savings by executing the project in an onsite-offshore model.

Improved utilization of shop floor and warehouse space with just-in-time production.

Manual effort reduced by automating communication with ERP, WMS, shop floor equipment, and devices.

Design to achieve end-to-end product traceability and reduced inventory cost.

Seamless integration of business logistics system with manufacturing system.

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 84,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <https://www.ltimindtree.com/>