



Case Study

Transforming Factory Operations with Strategic Partnership for Digital, for a Power Management Firm



Client

The client is a multinational power management company operating across 175+ countries for segments/groups such as electrical, hydraulics, aerospace, vehicle and e-mobility.



Our Experience

LTIMindtree is a preferred partner for digital transformation helping organizations chalk out a roadmap for their digital journey. We helped manufacturing units transform into factories of the future by implementing Industry 4.0 solutions including, but not limited to, OEE (Overall Equipment Effectiveness), DWI (Digital Work Instructions), and PdM (Predictive maintenance).



Business Challenges

- ✓ Identifying benefits of digital interventions for improving manufacturing productivity and equipment utilization, securing manufacturing communication, and accelerating new product development.
- ✓ Unscheduled downtime due to lack of root cause analysis for breakdown, and no visibility into machine unit health.
- ✓ Existing systems were siloed and lacked standardized manufacturing KPIs; lack of standard operations across sites.
- ✓ Uneven utilization of stationary and mobile assets on the shop floor leading to low overall equipment utilization.



LTIMindtree Solution

- ✓ LTIMindtree was an early collaborator to help the client think through the benefits of platform-based interventions including MES, equipment sensorization, and downtime monitoring.
- ✓ Conducted value discovery workshops with plant stakeholders and IT leadership and helped define business case and ROI for embarking on a smart manufacturing journey.
- ✓ Defined smart manufacturing digital transformation roadmap including the technology landscape and finalized areas for digital intervention across various functions under production, quality, maintenance, warehouse management, and logistics.
- ✓ Enabled assessment and selection of IIoT platform for building Industry 4.0 digital core comprising machine connectivity, business KPI visualization, process automation, analytics, AR-VR-based solutions for shop floor personnel up-skilling and inspection, and digital twin of product and processes.
- ✓ Transformed factory operations and drove business outcome through Industry 4.0 global deployment by implementing solutions around OEE (Overall Equipment Effectiveness), DWI (Digital Work Instructions), predictive maintenance, track and trace of parts/product on the shop floor, and AR-based training solution.
- ✓ Enabled global rollout of solutions across plants leveraging deployment toolkit for faster and risk-free implementation.



Business Benefits

25%-30%

reduction in unplanned production time due to predictive maintenance.

10%-15%

improvement in overall OEE.

08%-12%

reduction in unscheduled maintenance.

15%

reduction in manual efforts at the workstation.

Reduced inventory cost with improved visibility of parts consumption.

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/>

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