

Case Study

axisPLAST 4.0 delivers 18% OEE improvement at a leading automotive component manufacturer

Background

Renata Precision Private Limited, Pune (India) based precision automotive component parts manufacturer, is a supplier to top international automotive companies. Renata has invested significantly in a state-of-the-art manufacturing facility with some of the latest equipment and technology from internationally renowned OEMs. They have adopted the latest engineering and manufacturing practices and they are certified to rigorous international standards.

Challenges

As a supplier to world's topmost automotive OEMs and tier-1 companies, Renata is constantly looking for opportunities to improve QCDDR Performance (Quality Cost Delivery Development Response). Despite investment in best-in-class equipment and processes, their efforts were limited by:

- Occasional inaccuracies and incompleteness in data inherent in a manual process
- Delay in access to data, especially second and third shifts resulting in lost opportunities to optimize and/or take corrective action
- Data silos due to lack of integration of production and business data
- Management effort disproportionately spent on collecting/correcting data as opposed to acting on insights
- Delay in daily and monthly reporting

Solution

axisPlast 4.0, a premier and industry leading Industry 4.0 product for Plastics manufacturers, digitally enabled 35+ injection molding machines to acquire data in real time. EcoAxis is to deliver ready-to-act insights in a timely manner to Renata management anytime, anywhere and on any device which enabled quick identification of opportunities to improve efficiency and reduce losses.

axisPlast 4.0 was also integrated with Renata's ERP SAP and bar code-based material tracking system to enhance enterprise-wide visibility to end-to-end business operations.

Benefits

The results over three years have been exceptional

- 18% improvement in Overall Equipment Effectiveness (OEE)
- Almost 35% reduction in machine breakdown time
- Reduction in capital outlay for new equipment due to improved utilization of existing capacity
- Improved planning and tracking of critical customer deliveries
- Significant savings in people's time due to immediate, on-demand availability of process and equipment data and insights

No wonder then that Renata is delighted with their investment in axisPlast 4.0 and partnership with EcoAxis.

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