



## ProdLogix

Accelerate Shop Floor System Performance with  
Real-Time Visibility and Intelligence Using ProdLogix

## Overview:

Industry 4.0 is an umbrella term for the fourth industrial revolution. It refers to a series of digital technologies that have been developed for manufacturing industries, including automation, robotics, artificial intelligence (AI), Internet of Things (IoT), augmented reality (AR), virtual reality (VR), and 3D printing.

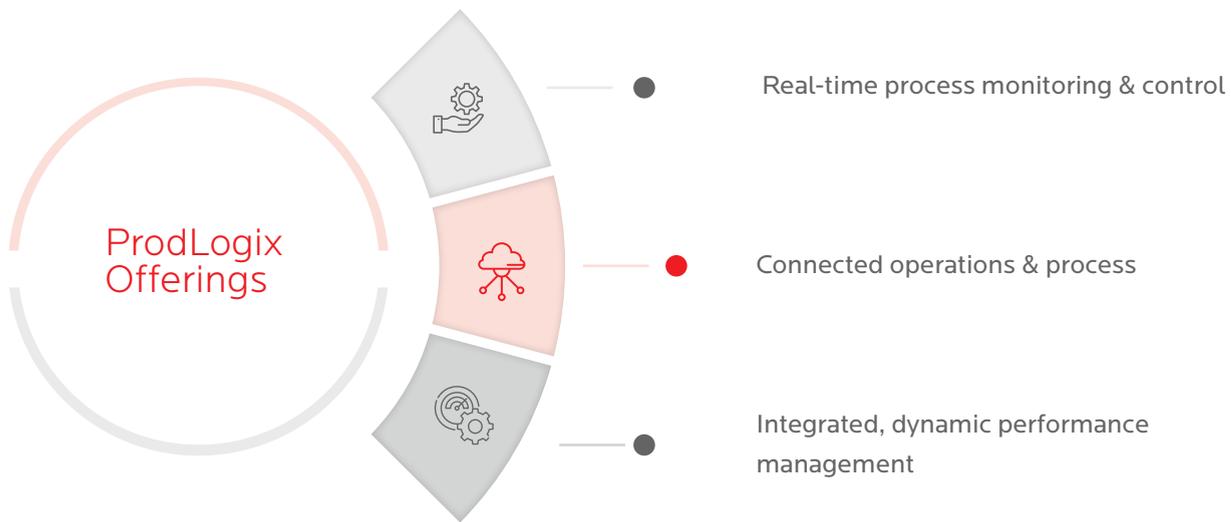
## Birlasoft's ProdLogix

An Edge and Cloud-based agent platform that provides real-time shop floor visibility for monitoring and controlling the system performance at the ground level (OEE, OLE, OSE). Transparent production process with dynamic root cause analysis and MES integration. It decentralizes the MES functions such as dispatching, production execution, and control at the line level, thus making the system more responsive and agile.

ProdLogix makes the shop floor more productive with the help of dynamic and context-based instructions and improves production process efficiency with real-time WIP monitoring control. The application also leverages AI/ML for proactive performance correction decisions. In addition, manufacturers continually face issues related to collaboration, and ProdLogix fixes this problem with real-time messaging for rapid fault recovery. This further promotes lean manufacturing by eliminating error at source and in-process quality control.

## ProdLogix Features:

- **Smart Factory**  
Smart Factory offers business owners interactive views to users based on their roles. Everyone from the machine operator to the shop manager gets their unique customized dashboard.
- **Global-View**  
The Global-View describes the Admin Dashboard with a satellite view of the shop locations, the plant details, monthly production status, and OSE.
- **Shop Manager Dashboard**  
The Shop Manager Dashboard provides shift-wise OSE/OLE monitoring. It offers filters to narrow down dates and alarm and alert counts.
- **Line Supervisor Dashboard**  
The OEE monitoring tab shows the line's availability, performance, and quality through a bar graph on the dashboard. This dashboard provides information like Line tracking, WIP monitoring, quality, performance, availability and OEE etc.
- **Operator Dashboard**  
Inform the machine operator about the planned and actual units of parts, real-time cycle duration, and the required cycle duration for optimal functioning and provide work instruction and work center checklist.



## SmartFactory benefits for every level of organization



### User based real time visibility

- Production monitoring – order produced, remaining orders
- Material consumption
- Rejection/scrap, rework, production rate
- Real time performance monitoring



### Process error proofing & validation

- Real time process, exception handling
- Machine status, performance, quality
- Safety checks interlocks handling
- Sequence proofing
- Electronic work instruction



### Operations transparency

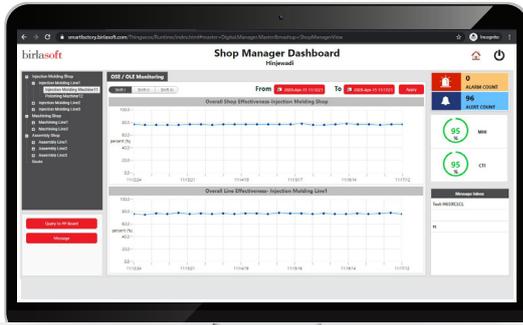
- Bottleneck detection
- Part & process traceability
- Process, route enforcement & control
- Quality, productivity & root causing



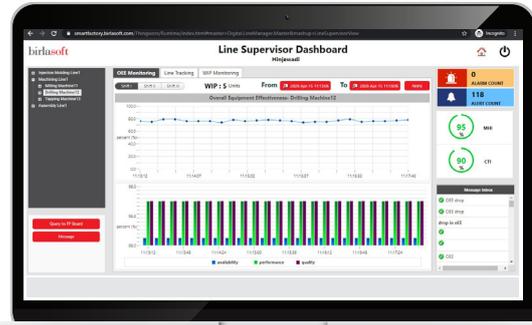
### Process control & optimization

- Proactive quality control
- Predictive process control
- Production rescheduling
- Production route & reconfiguration

## Smart Factory - Role based Dynamic and Interactive View



Shop Manager Dashboard



Line Supervisor Dashboard

### Why Birlasoft?

The ProdLogix platform enables enterprises to gather data from their production systems, analyze it in real-time, and act based on their insights. As a result, companies can improve product quality by monitoring performance and identifying issues that may affect product qual. Reduce operational costs by reducing downtime caused by machine failure or process disruption. And increase operational efficiency by automating the production process. It allows users to monitor their manufacturing systems from anywhere, in real-time, with a complete record of events throughout the day. This will enable you to make informed decisions regarding your production line more quickly.



RESOURCES

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### Enterprise to the Power of Digital™

Birlasoft combines the power of domain, enterprise, and digital technologies to reimagine business processes for customers and their ecosystem. Its consultative and design thinking approach makes societies more productive by helping customers run businesses. As part of the multibillion-dollar diversified CK Birla Group, Birlasoft with its 12,000+ professionals, is committed to continuing the Group's 160-year heritage of building sustainable communities.