



MachineLogix

Real time shop floor machine control for performance monitoring & analysis

Overview

Birlasoft solution is the first to connect any manufacturing machine on the shop floor to improve efficiency. We provide a platform for manufacturers to connect their devices and optimize them using artificial intelligence. Our service helps manufacturers save time and money by reducing the time it takes to make decisions, improving quality control, increasing production capacity, and reduce manufacturing processes' costs.

The solution also provides predictive maintenance and fault detection capabilities to reduce downtime and increase productivity. It provides real-time monitoring for machine parameters, parameter trends, alerts, and alarm for respective parameters. Also, top machine down-time reason, OEE, OEE trend, Availability, Quality and Performance.

MachineLogix as a Birlasoft Service Offering

MachineLogix is a software provider for the manufacturing industry. The company's flagship product, MachineLogix, provides a cloud-based platform for real-time monitoring dashboards and reports

MachineLogix is designed to be used in conjunction with other products from Birlasoft, which are integrated with the MachineLogix platform to provide additional functionality.

Features

We offer modernized line monitoring tools that watch over different parameters related to various components of a production line:



Real-Time OEE Visualization:
Monitor the Overall Equipment Effectiveness of CNC machines that are part of your production line.



Informative dashboards:
Informative dashboards allow you to monitor how a machine is performing throughout the day and to access more information about different machines



Analyze faults in the production line:
The Smart Performance Watch enables you to analyze the OEE, Mean Time Between Failures, Mean Time to Recovery, Energy, Quality, and Process, in addition to other actual trends, so that faults can be detected and identified.



Enhance production line operations:
Notifications regarding the Quality, WIP Bottlenecking Warning, Alerts that require Immediate Attention, and Correlation heatmaps allow you to understand the relations between several parameters that affect production and parameters that signify the efficiency of production, such as Downtime issues, quality of production, and speed loss.



Accurate depiction of causes behind downtimes:
The dashboards provide insight regarding reasons that cause frequent downtimes, which helps your business address downtimes that cause losses to the business.



Maximize the utility and efficiency of assets:
Get access to statistics regarding downtimes, and asset utilization, with the help of which you can understand how you can maximize asset utility when required.



Schedule Condition Based Maintenance accurately:
The Smart Performance Watch helps estimate Asset Health Index and tool life, which allows you to create an appropriate CBM schedule, ensuring the operation of a smooth production line.



Fault detection and analysis:
Detect faults for machine parts based on critical parameters. AI runs critical parameters variation to threshold analysis in time, sending recommendations to the relevant user.

Dashboard View



OEE Dashboard



Machine Dashboard

Why Birlasoft?

We help organizations improvise and automate their production cycles by optimizing their workflows with an interest in underlying problems. We help companies identify root causes, hidden opportunities, and the ideal production layout to improve their process integrity, lower overhead costs, and improve traceability.



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.