

In.Grid

Line Monitoring
Platform



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Line monitoring

Data collection from the PLCs on the production line. This data can be used to monitor the overall performance and KPIs of the production lines and identify bottlenecks or areas that need improvement.



Robot monitoring

Data collection from Comau Robot to calculate performance metrics. This data will be used to monitor the health and performance of the robots and identify potential issues that will need to be addressed.



Traceability

Data collection on a product during its production, such as quality data and other information related to the product. This data will be used to trace the product throughout production process and ensure that it meets the required standards.



What is In.Grid Line Monitoring?

In.Grid is the Comau SaaS and On Prem platform that allows you to shape Industry 4.0 in line with the Smart Factory Concept.

By interconnecting Comau and non-Comau equipment, In.Grid Line Monitoring enables you to plan, manage and monitor both the production flow and machinery performance.

Line monitoring

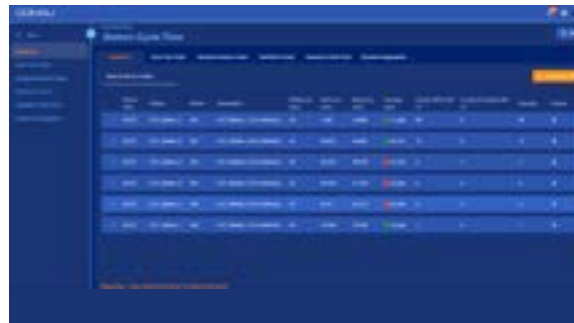
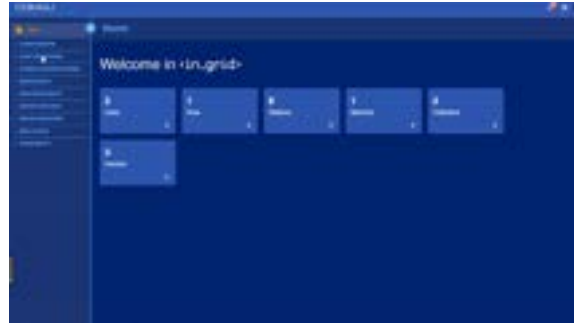
Real-time data collection from the PLCs on the production line.

This data is then used to monitor the overall performance and KPIs of the production lines and identify bottlenecks or areas that need improvement.

Information is available and displayed through a simple and interactive interface.

Workers play a central role when faced with a completely digitized production process. It empowers them to evaluate the information received from the system and make strategic and operational decisions based on it.

Expected benefit decrease of cycle time 20%
ROI < 1 year.



Powerful Tools for Better Production Management

Key Features & Benefits

Real-Time Performance Monitoring

DESCRIPTION: Monitor machine performance and production metrics in real time, with easy-to-understand visual dashboards

BENEFIT: Gain instant insights into efficiency, machine utilization, and production rate

KPI Tracking and Reporting

DESCRIPTION: Monitor key performance indicators (KPIs) such as OEE (Overall Equipment Effectiveness), production rate, downtime, and more

BENEFIT: Ensure production targets are met and make data-driven decisions to optimize performance

Automated Alarms and Notifications

DESCRIPTION: Set thresholds for KPIs and receive real-time alerts for deviations or failures, ensuring timely intervention

BENEFIT: Minimize downtime with proactive alerts and faster response times to production issues

Cycle Time Analysis and Optimization

DESCRIPTION: Measure and analyze cycle times to identify bottlenecks, inefficiencies, and areas for improvement

BENEFIT: Reduce cycle times, increase throughput, and boost productivity

Enhanced Troubleshooting and Root Cause Analysis

DESCRIPTION: Troubleshoot issues quickly using comprehensive data logs and real-time analysis of production anomalies

BENEFIT: Improve problem-solving capabilities and reduce ramp-up time for new products



Seamless Integration for Immediate Results

Integration and Scalability

Plug-and-Play Integration

In.Grid Line Monitoring integrates easily with existing equipment and software systems, making it a flexible and scalable solution for production lines of any size

Modularity

Based on a microservice approach, In.Grid Line Monitoring fully adapts to your needs

Scalability

Whether you're managing a single production line or multiple global facilities, In.Grid Line Monitoring scales with your business and adapts to your evolving needs



Unlock the Full Potential of Your Production Line

Functionalities

Deployment



STATION STATUS ANALYSIS

- Status aggregation view
- Availability



KPI CALCULATION

- OEE* - Availability
- OEE* - Quality
- OEE* - Performance



USER AUTHENTICATION

- Local Database
- Azure Active Directory



ON PREMISE



ALARM ANALYSIS

- Active Alarms
- Pareto Chart
- Time Aggregation
- Occurrences Aggregation



MONITORING

- Variable monitoring chart
- Trend comparison
- Condition-based notification



SIMPLIFIED LINE CONFIGURATION



CLOUD



CYCLE TIME ANALYSIS

Station cycle time:

- Table view
- Duration graph
- Std deviation graph
- Distribution graph



TIME-CHART ANALYSIS

Time Chart:

- Cycle operations sequence
- Operation duration average
- Operation duration distribution



PRODUCTION PLANNING



DATA EXPORT

● Option ● Basic

* "OEE" = Overall Equipment Effectiveness.

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In.grid Line Monitoring Benefits for Manufacturers



**Real-time
Equipment
Monitoring**



**Reduction in
unplanned
downtime**



**Reduction
of micro
stoppages**



**Throughput
Optimization**



**Productivity
increase**



**Cost of
poor quality
reduction**



**Improvement
maintenance
effectiveness**



**Reduction
in time to
market**





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