RDL Technologies Pvt. Ltd.

SHOP FLOOR AI 4.0

OEE and Production Monitoring Solution

A live command centre for your production line — **Availability, Performance and Quality**, streamed straight from your machines to a single dashboard.

Industry 4.0 · Optimizing Productivity



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See every second of lost production, before it costs you a shift.

Most plants lose capacity to problems nobody has measured — micro-stops, slow cycles, quality rework — because tracking them by hand is slow and unreliable. **InsightsX OEE Monitoring** plugs directly into your machines, PLCs and sensors, and turns that raw signal into live Availability, Performance and Quality scores your team can act on the same shift.

- Unlock hidden capacity
- Cut unplanned downtime
- Shorten lead time
- Fewer defects
- Higher machine uptime

The OEE formula
Live from your shop floor, not a spreadsheet.



Overall Equipment Effectiveness
Sample reading from a live InsightsX dashboard

= 72%

01 Data acquisition

Edge gateway logs on/off status, pressure, temperature, vibration and energy from new PLCs and legacy machines alike, streaming everything into one OEE platform.

02 Digitize & visualize

Multi-sensor data becomes clear, actionable reports and live dashboards — built so any supervisor can manage a large workforce without technical training.

03 Analyze & transform

Machine-learning-driven predictive analytics flag issues before they cause downtime, turning the shop floor into a remotely monitored, self-improving factory.



What's inside the platform

Five connected modules, one dashboard — plus deep OEE loss analysis

rdltech.in
OEE Monitoring Solution

MODULE 01

Production monitoring

- Real-time visibility of machines and people
- Maximised asset utilisation & capacity
- Higher measured productivity plant-wide
- Live KPIs and alerts on TV dashboards

Machines		88%
Workforce		76%

MODULE 02

Overall Equipment Effectiveness

- Availability, Performance & Quality in one score
- Optimises production efficiency
- Predictive analytics reduce downtime
- Error-trend analysis, MTTR & MTBF

72%	4.1h	62h
Plant OEE	MTTR	MTBF

MODULE 03

Utility consumption monitoring

- Full energy consumption overview
- Machine utilisation vs. energy efficiency
- Lower measured energy cost
- Live readings on TV / digital dashboards



MODULE 04

Preventive maintenance

- Automated, condition- & predictive-based upkeep
- Schedule and approve maintenance activity
- Real-time predictive service alerts
- Smart shop-floor health indication

Sensors healthy		97%
Alerts open		3

MODULE 05

Access anytime, anywhere

- Consolidated view across every device
- Integrates with your existing ERP
- Authorised mobile-device access
- Secure HMI dashboards

Phone · Desktop · ERP

OEE INSIGHTS

OEE loss & downtime insights

- Six big losses classified automatically
- Shift, line & machine-level OEE
- Historical trend & peer benchmarking
- Root-cause tagging on every stop



Availability 44% · Performance 34% · Quality 22%

Start your Shop Floor AI 4.0 journey

See InsightsX OEE Monitoring running on a real production line, or talk to us about your shop floor.

Case Study
Scan to view on your phone

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