



X-Force OEE Application

Maximize Equipment Productivity. Minimize Waste.

Overview

X-Force OEE Application is an advanced Overall Equipment Effectiveness (OEE) monitoring and analytics platform designed to measure, analyze, and improve manufacturing performance.

OEE is a globally accepted best-practice metric that evaluates:

- Availability – Machine uptime vs planned production time
- Performance – Operating speed vs ideal speed
- Quality – Good parts vs total parts produced

An OEE score of 100% represents perfect production:

- No downtime
- Maximum speed
- Zero defects

The X-Force OEE Application enables manufacturers to identify hidden losses, reduce waste, increase capacity, and drive continuous improvement across operations.

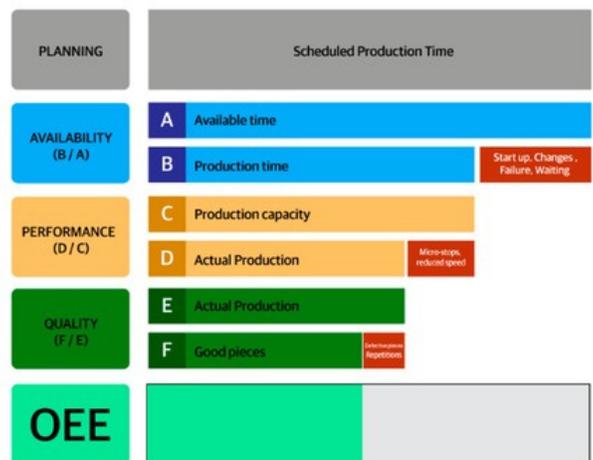
Why OEE Matters

Improving OEE directly impacts business performance.

By optimizing OEE, organizations can:

- Increase production capacity without new capital investment
- Reduce operational costs
- Improve product quality
- Minimize downtime
- Enhance equipment reliability
- Improve resource utilization

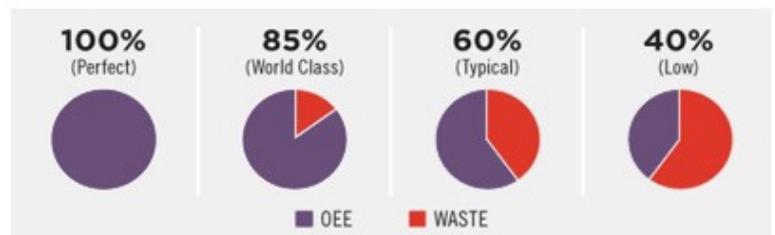
Improving OEE means reducing waste and maximizing asset performance.



Key Features

Real-Time OEE Monitoring

- Live OEE calculation
- Availability, Performance & Quality tracking
- Shift-wise / Line-wise / Machine-wise monitoring



Downtime Management

- Automatic downtime capture from PLC / SCADA
- Manual downtime entry (if not captured automatically)
- Downtime reason confirmation by Shift In-charge
- Downtime split & merge functionality
- Detailed downtime listing
- Downtime categorization & root cause tracking

OEE Dashboards

- Production OEE Dashboard
- Manufacturing KPI Dashboard
- Line-wise OEE Visualization
- Loss Analysis Dashboard
- Downtime Analysis Dashboard
- Performance Trend Dashboard

Interactive dashboards provide clear visibility into production losses.

OEE Dashboard for Production Firm



Dashboard of Manufacturing KPIs



Loss Identification & Analysis

The system helps identify:

- Breakdown losses
- Setup & changeover losses
- Minor stoppages
- Speed losses
- Quality losses
- Idle time

This enables structured continuous improvement initiatives.

Reporting & Analytics

- OEE Summary Reports
- Downtime Reports
- Shift-wise Reports
- Machine Performance Reports
- Historical Trend Analysis
- KPI Comparison Reports

Export formats supported: Excel / PDF.

Business Benefits

Increase Production Capacity

- Improve asset utilization without investing in new machines.

Improve Equipment Reliability

- Structured downtime tracking enhances maintenance planning.

Reduce Operational Costs

- Identify and eliminate hidden production losses.

Enable Data-Driven Culture

- Move from assumption-based decisions to fact-based performance management.

Conclusion

The X-Force OEE Application transforms raw machine data into actionable intelligence — enabling manufacturers to:

- Maximize productivity , Reduce waste, Improve efficiency, Strengthen operational control

It is not just an OEE monitoring tool.

It is a performance intelligence platform for modern manufacturing.