

CASE STUDY

Manufacturing OEE Performance Dashboard



Real-time visibility into machine performance, availability, quality & maintenance across every production line.

OEE Analytics

Downtime Analysis

MTBF / MTTR

Shift Performance

THE CLIENT

Manufacturing Organization

A manufacturing firm seeking to improve machine utilization, reduce downtime, and enhance production efficiency across multiple machine types and production lines.

Industry: Manufacturing / Production

Scope: Multi-machine, Multi-shift

Focus: OEE & Equipment Performance

THE CHALLENGE

Manual Reports. Blind Spots.



Production teams relied on manual reports for equipment performance



No real-time visibility into downtime incidents and stoppages



Delayed decision-making due to fragmented production data



Difficulty identifying bottlenecks across machines and shifts



Ineffective maintenance scheduling with no predictive data

THE SOLUTION

An Interactive OEE Performance Dashboard

A centralized real-time platform for machine health, production efficiency & maintenance excellence.



OEE Metrics

Overall Equipment Effectiveness with availability, performance & quality scores



Machine Performance

Machine-wise tracking across all production lines in real time



Downtime Analysis

Stoppage events, root causes, and duration breakdowns by shift



MTBF & MTTR

Mean Time Between Failures and Mean Time To Repair per machine



Shift-wise Analysis

Production output and efficiency comparison across shifts and time windows



Maintenance KPIs

Planned vs unplanned maintenance tracking per machine and team

What the Dashboard Measures

01

Overall Equipment Effectiveness (OEE)

02

Availability, Performance & Quality Metrics

03

Machine-wise Performance Tracking

04

Downtime & Stoppage Analysis

05

MTBF — Mean Time Between Failures

06

MTTR — Mean Time To Repair

07

Shift-wise Production Analysis

08

Time-wise Production Trend Tracking

09

Machine-wise Maintenance Performance

10

Production Loss & Bottleneck Identification

What Changed on the Plant Floor



Reduced Downtime

Unplanned downtime incidents tracked and resolved faster with root-cause visibility



Machine Utilization

Improved machine uptime and production throughput across all lines and shifts



Root-Cause Analysis

Faster identification of production losses, stoppages, and recurring failure patterns



Maintenance Planning

Better scheduling of planned maintenance using MTBF and MTTR trend data



Data-Driven Decisions

Centralized dashboard replacing fragmented spreadsheets for real-time plant ops



Operational Efficiency

Increased OEE scores across machines through continuous performance monitoring

THE RESULTS

From Reactive Maintenance to Predictive Excellence

The dashboard transformed manufacturing data into actionable insights, enabling production and maintenance teams to monitor equipment health, improve OEE, reduce operational losses, and optimize overall plant performance from a single centralized platform.



OEE

Improvement

Centralized



Downtime

Reduction

Centralized



Maintenance

Optimized

Centralized



Plant

Performance

Centralized

One Dashboard. Every Machine. Maximum Efficiency.