CASE STUDIES FOR
PROEFFICIENT
(PRODUCTIVITY MONITORING SYSTEM)

POWER PROFIT
TECHNOLOGIES PRIVATE LIMITED

HOW A TIER 1 ORGANIZATION WAS ABLE TO SAVE ON CAPEX AND INCREASED PRODUCTIVITY?

POWER PROFIT
TECHNOLOGIES PRIVATE LIMITED

OVERVIEW

An automobile parts manufacturing company was facing low-efficiency issues with machines due to the paper-based approach for tracking machine utilization, which left room for error, leading to unreliable data around true capacity.

APPROACH

Each year, this Company evaluates improvement opportunities within the company's production line against machine capabilities and capacities.

To arrive at an estimate of minutes ran, this Company relied on a paper-based system where supervisors recorded machine downtimes every business day across 50+ Lines and 3 shifts. "Those downtime logs were always 5, 10, 15 or 20 minutes—it wasn't very accurate," reliable sources report.

"Without precise data, we never really knew how much capacity we had on the shop floor, so we kept asking for more resources to work more."

Instead of continuing the paper system, Management began looking for a technology solution that would deliver reliable data, without the need for extra investment in sensor hardware.

TRIAL RUN DONE OF PRODUCTIVITY MONITORING SYSTEM SOLUTION-
YIELDS 75% UTILIZATION OF MACHINES:

The client began its engagement with a two-month trial, collecting production data from two lines to better understand true capacity.

For the leadership team, the proof of concept demonstrated the value of data-driven decision-making and showed that the way forward was digital.

"With Proefficient, it was shown exactly what happened on any date, within seconds," said the Corporate representative.

"There's no guessing or looking through piles and piles of paper and entering that data into Excel for further analysis.

It showed that the Client can't run away from data—it's telling exactly what the client needs."

Before the trial run, machine utilization was estimated between 50–60%.

After the trial, it was 75% but when the system is implemented for the whole plant the machine utilization is 92%.

"Every second, every minute, and every hour were accounted for—no supervisor can do that 24/7 for every single second," decision-makers said. "Now we're making data-driven decisions and achieving higher utilizations from machines with the optimized resources."
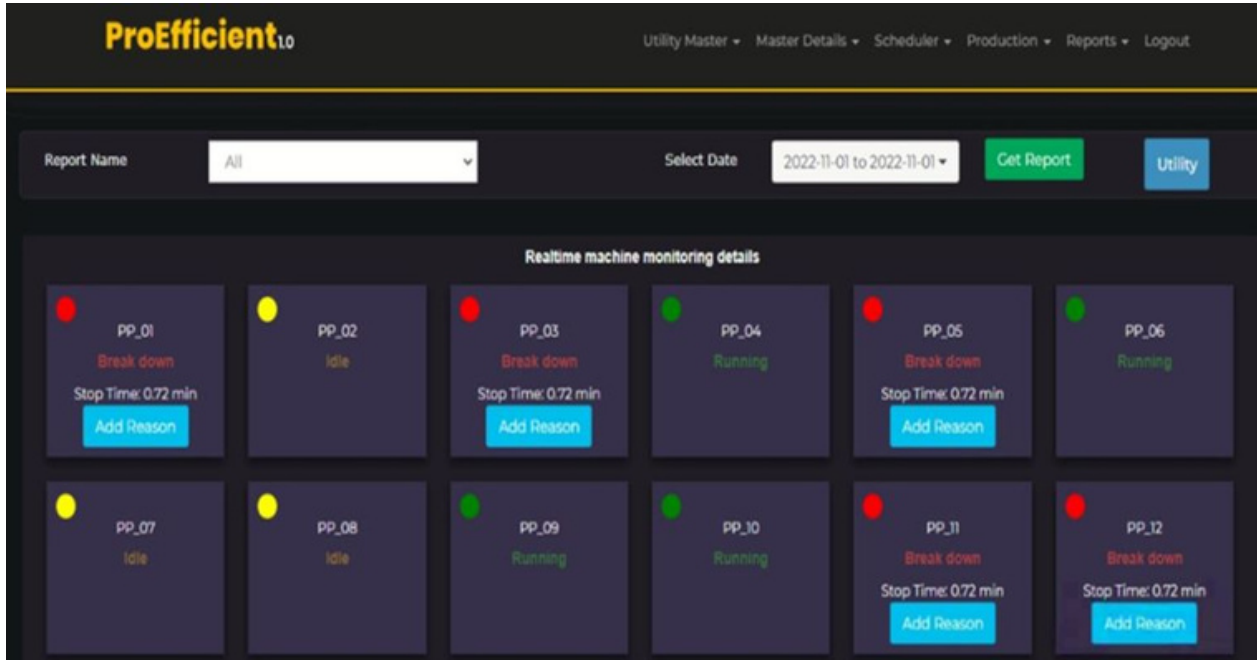
SOLUTION OUTCOME SNAPSHOTS

PMS SNAPSHOT

OEE SNAPSHOT

SOLUTION OUTCOME SNAPSHOTS

REAL-TIME MACHINE STATUS

DOWN TIME ANALYTICS

HOW PROEFFICIENT HELPED IN REDUCING THE DOWNTIMES IN AUTOMOTIVE STAMPING UNIT?

DOMAIN

AUTOMOTIVE PARTS MANUFACTURING COMPANY

Problem

Productivity Monitoring is a challenge.

As-Is Situation

No tracking mechanism of hourly production.

Dip Stick Study

It was observed that Operators used to avail extended Tea and Lunch breaks in absence of tracking.

Challenges

- No record keeping for Operators availed Lunch and Tea breaks.
- No tracking of unattended machine durations.

Solution Implemented

Production Monitoring System was implemented to yield machine utilization and record downtime hours and respective reasons.

Benefits

- Disciplined culture is being followed at Shop Floor due to tracking of real-time Productive and downtime hours.
- No extended Tea and Lunch breaks is being availed by Operators.

HOW PMS HELPED IN REDUCING REJECTIONS IN DIE-CASTING UNIT?

DOMAIN

Foundry/Die-Casting Machines/Furnaces

Problem	High rejection due to inconsistent process .
As-Is Situation	No mechanism to track production rate.
Challenges	Due to lack of data and tracking mechanism, its was a challenge to identify the root cause of high rejections.
Solution Implemented	Real-time Automated Production Monitoring System to record production rate.
Benefits	• Improved OEE • Reduced rejections