

ENGAGEMENT CASE STUDY

Customer Background

Established in 1935, the organization is one of the most sophisticated tool rooms in India. Using constant innovation as the driving factor, they have emerged as a key player in the design, manufacture and proving of tools. It is an IMS (ISO 9001, ISO 14001 & OHSAS 18001) certified division of a global conglomerate and caters to the entire tooling requirements for the group company.

Business Case

The system requirements for the organization were:

- Predict the possibility of break down
- Prevent recurrent break down of machines
- Minimize loss due to machine down time
- Increase machine availability
- Reduce wastage/ rejections/ rework
- Increase machine throughput, calibrate & maximize OEE (Overall Equipment Effectiveness)
- Increase machine life
- Track machine cycle time & shot count
- Calibrate & optimize machine throughput



India's Leading Tool Room
Implements Digital Solution for
Predictive Machine
Maintenance Analytics

Highlights

Industry: Construction

Project Location: India

Engagement Since: 2019

Solution Snapshot:

- Sensor based Technology
- Automation of Calibration of Cycle Time & Shot Count
- Alert Generation

Business Solution

The solution implemented has the following features:

- Sensors continuously monitor critical attributes & transmit live stream of machine vitals like molten temperature, ejection pressure, accumulation pressure, slider pressure, no. of shots, & cycle time
- Data logger connected to the sensor sends data to the server
- Near real time alerts are generated for parameters fluctuating beyond thresholds to ensure timely intervention to prevent break down of the die

Challenges

The challenges faced by the GITL team during this implementation were:

- Requirement of extra sensors for some of the old machines
- Design & development of data loggers
- Compatibility with PLC controllers & communication protocols

Benefits

- Higher Machine Availability
- Minimised Downtime
- Higher OEE (Overall Equipment Effectiveness)
- Increased Profit per Machine
- Reduced Wastage
- Optimised Throughput

Contact us



India

Head office

Godrej Infotech Ltd.

Plant 10, Pirojshanagar,
Vikhroli (West),
Mumbai- 400 079, India.

Tel. : +91-22-67964005 / 4086 / 4087

Fax : +91-22-25181728



About Godrej Infotech Ltd.

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Email: infotech@godrej.com | www.godrejinfotech.com

