

## Injection Moulding Machine (CBM)

Injection moulding machine consuming huge amount of power – saving the energy requires by analyzing various parameters and fine tuning & controlling of the same leads to energy saving and performance improvement.

### OUTPUTS / DELIVERABLES

- Real Time Monitoring and Control
- Machine Condition Monitoring
- Early fault prediction
- Automatic - Status/Condition Report and emailing
- Thresholds based alerts
- Trend, event, history – analysis
- Machine Efficiency/Effectiveness
- Energy Saving
- Degradation of Hydraulic Oil Density, viscosity - Alert

### INFORMATION RETRIEVAL

- Browser based monitoring and control
- Web, Mobile – Monitoring system
- Alert, event – messages
- Automatic REPORT generation and emailing
- Discard based Chatbot system
- Without visiting the web service – retrieve any information through discard application.

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### BENEFIT VALUE

- Reduce down time through effective monitoring and recommendation for early maintenance.
- To improve efficiency of the machine by implementing various measures and their performance.
- Automatic condition predicting will leads to reduced skill level, improving intelligence and reducing down time
- Predicting failure and forecasting - eliminates costly repair charges
- Database recording and retrieval leads to complete transparency
- Any retrofit or energy saving measures shall be quantified and the return on investment shall be accurately calculated.
- The risk factor of the machine shall be calculated based on the existing performance and mitigate those issues and De-Risking of the machine to normal zone.
- Analyzing the machine various process parameters, and optimizing, finetuning and controlling of parameters and leads to energy savings.



### DATA VISUALIZATION

RTU/PLC panel process and non-process parameters shall be acquired. And transfer the same to the cloud server.



### PANEL WELLNESS PARAMETERS

Panel wellness parameters ensuring the healthiness of the electronic components and protecting the panel and filed devices – equipment's.



### DATA ACCESSIBILITY

AI based system analysing all the acquired parameters and predicting and forecasting the anomaly in the system and predicts the possible failures and warns the user well in advance

**Reduce your carbon footprint and make a positive impact in your community.**

