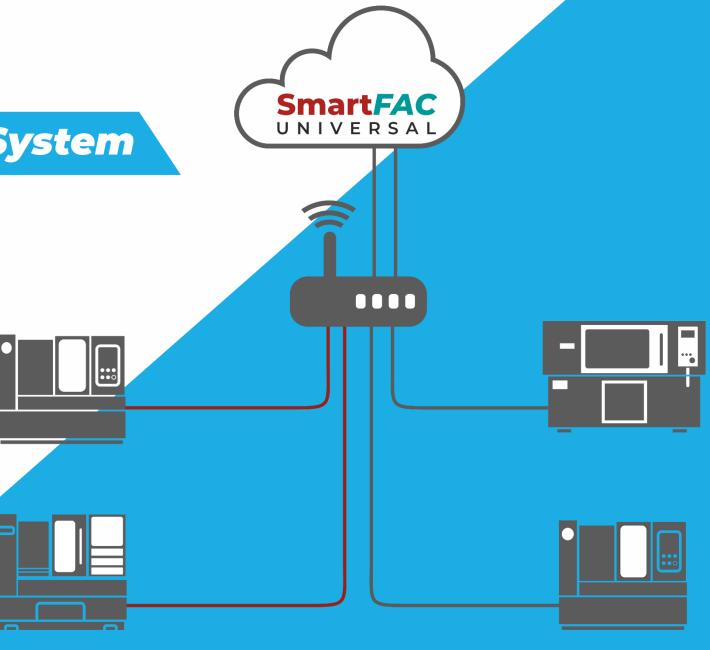


MACHINE Monitoring System

Smart*FAC* UNIVERSAL

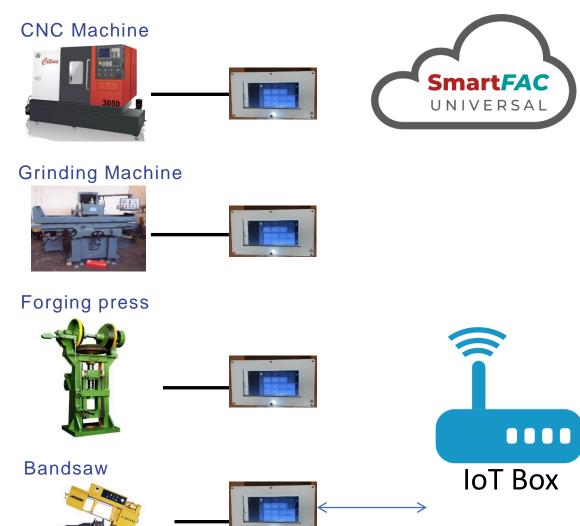


of machine

any type

Connect







Web GUI and Apps

anywhere, anytime...

Data Accessibility (Virtual servers)

- Machine history
- Real time status
- Productivity reports
- Real time alerts
- Real picture of the shopfloor



SMARTFAC-UNIVERSAL HELPS BY:



Machine Monitoring

on real-time to track plan, target & actual production



Eliminating Gaps

between shop floor &plant manager with accurate data



Generating Reports

hourly/weekly/monthly, OEE,
Production, Downtime, Rejections



Identifying Bottlenecks

To improve process flow on the shop floor



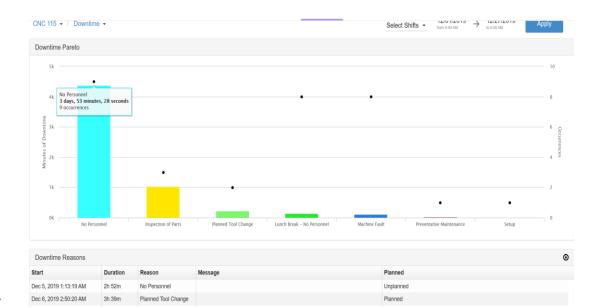
Improving Availability

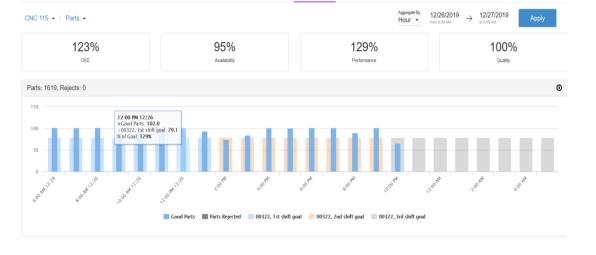
by fast response to downtimes



Data Analysis

on data to provide insights & alerts









Machine Monitoring and Alerts

- ☐ Alerts/ Alarms for downtime
- ☐ Availability / Performance/Quality
- ☐ Condition based monitoring



Preventive Maintenance

- ☐ Maintenance Check Lists
- ☐ Triggers for time & condition-based maintenance
- ☐ Asset health monitoring







Instant real time status of the machine in one look.

- Green means doing well
- Orange means average performance
- Red means goal for the shift not achieved and poor performance

Different dashboards available according to what you want to monitor

- OEE
- Parts per hour
- Utilization
- Downtime
- Performance comparison



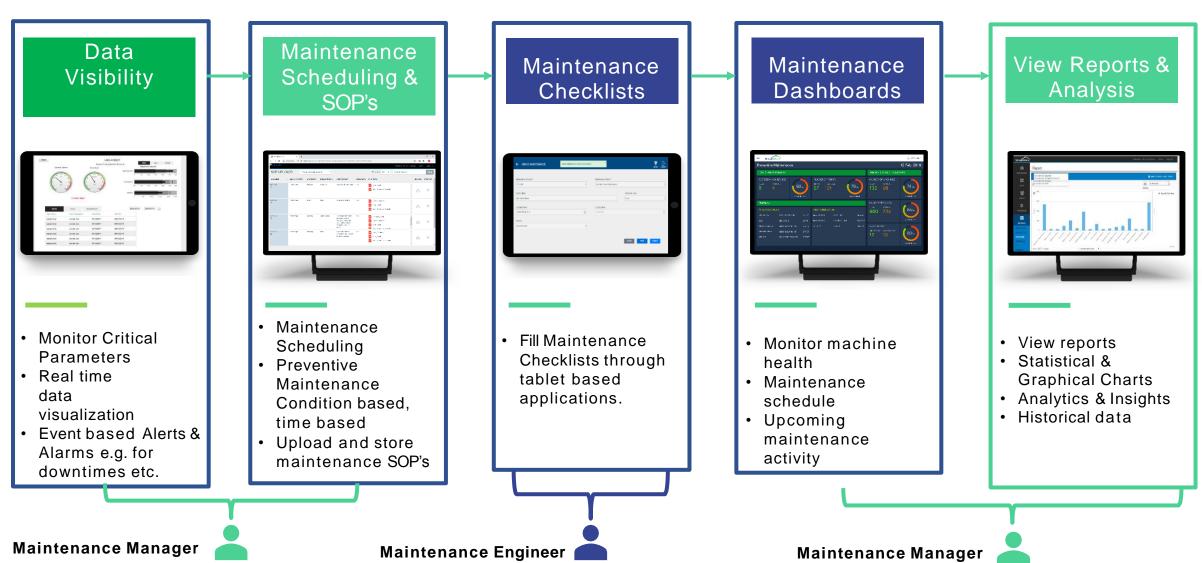


Supervisor Manager Operator Real time performance of all Real time performance of all Real time performance machines under him connected machines Production reports (OEE, Job related information Downtime analysis Downtime, Utilization, setup changeover etc) Performance comparison of last Shift wise downtime break up Trends of production few days Utilization and OEE reports in real Performance since shift start Plant performance reports time

Condition and role based real time alerts in the form of SMS and Emails.



MAINTENANCE RELATED FUNCTIONS





REAL-TIME SHOP FLOOR DASHBOARD

Machine Status

- ☐ Running / Down
- Details of part running on the machine
- ☐ Tile colour indicates performance

Green means machine is currently running

Blue means machine is currently idle

Yellow means machine is currently in setup change mode

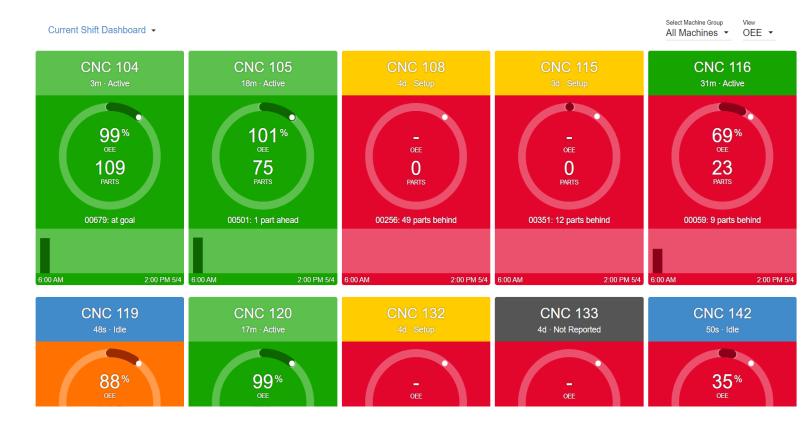
Red means machine is currently in Alarm state

Breakdown

- Machine Down since
- Machine total downtime
- Reason of breakdown

Performance measure

- □ OEE
- Parts per hour
- Downtime
- Utilization







Detailed Reports

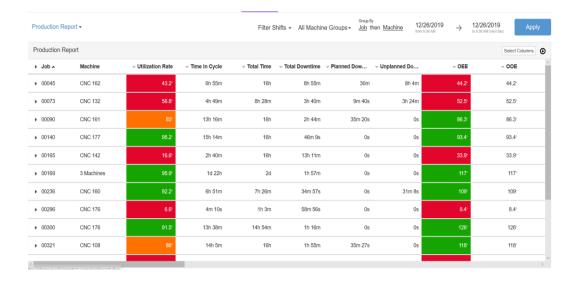
- Detailed reports
- ☐ Save reports in csv, xls, pdf formats
- ☐ Filter options such as date, parameter, field types etc.

Graphical Charts

- Statistical reports
- ☐ Bar Charts and Graphical views
- Toggle between parameters

Analytics & Insights

- Detailed analysis
- ☐ Create monitors for performance
- □ Create incidents
- Machine Maintenance history





IMMEDIATE EFFECT

- Visibility of data on the shop floor
- Real time data reporting
- Real time performance monitoring
- Alerts and notifications

NEXT 2 WEEKS

- Improvement in efficiency
- Automatic reporting through the software
- Corrective and preventive actions
- People get used to the software

AFTER 4 WEEKS

- Continuous weekly improvement in efficiency
- Bottlenecks eliminated and new ones identified
- Trend analysis for key performance parameters