AceMicromatic Group

AmiT

Manufacturing Intelligence
Born, Bred & Perfected on the shop-floor

Data Acquisition

IoT

Analytics

- Real-time OEE & Production Analytics
- Track & Trace
- Process Energy Monitoring
- Assembly & Conveyor Monitoring
- Visual Factory & ANDON

TPM-Trak®
Optimize your factory. Increase your profits!

- e-SHOPx & Work Flow Apps
- Online Inspection & Poka Yoke
- Machine Diagnostics

Prestigious Awards

NASSCOM PEM | THE ECONOMIC TIMES THE POWER OF Ideas | PCQuest Best IT Implementations –The Year 2011 | WINNER OF FIE FOUNDATION AWARD | CMTI PMT BEST DESIGN AWARD | IMTMA – SIEMENS PRODUCTIVITY CHAMPIONSHIP AWARDS 2006

THE LARGEST MACHINE TOOL GROUP IN INDIA | acemicromatic.net

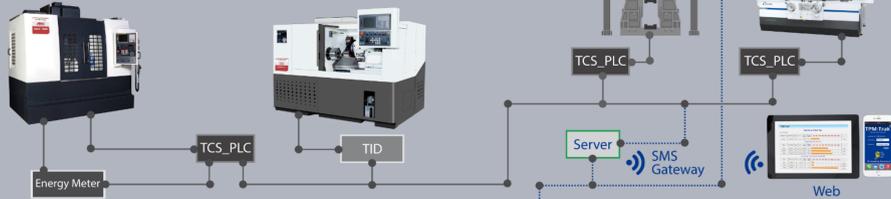
Real-time OEE & Production Analytics

- **OEE**: Availability, Performance, Quality...
- **Counts**: Part Count, Cycle & Load-Unload times and Variations, Tool Life...
- **Machine stoppages**: Setup, break downs...
- **Dashboards & Reports**: For hourly, shift based, daily management, by machine, cell, part, operator...
- **MIS**: Comparison and Trends analytics
- **Financial**: True machine hour rate, costing...
- **Automated alerts**: Email, SMS, visual...^
- **Can be deployed on**: CNC, PLC, Conventional machines; Turning, Milling, Die-casting, Presses...
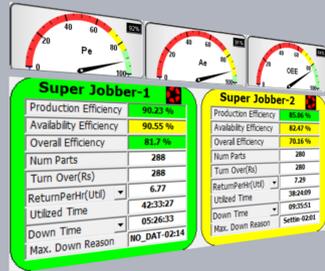
TCS_PLC
- Any M/c with 24 VDC Signals*
- Interaction via HMI
- Workflows for Quality, Pokayoke
- Hard Interlock

TID
- For Controls with Macro B & RS232
- Interaction via CNC Console
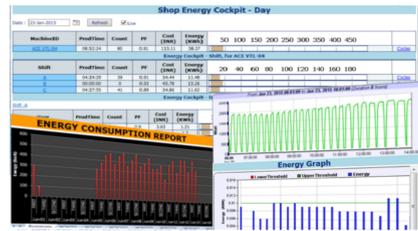- CNC Program Transfer
- Soft Interlock

Track & Trace

TCS_PLC | TCS_PLC | Energy Meter | TCS_PLC | TID | Server SMS Gateway | Web

50+ Real time reports & Dashboards

Super Jobber-1 | **Super Jobber-2**

Process Energy Monitoring

- **Machine energy consumption**: By Hour, Shift, Day...
- **AC Energy Consumption**: Correlation to parts produced
- **Parameters**: KWH, Amp, PF...
- Power profile of each cycle
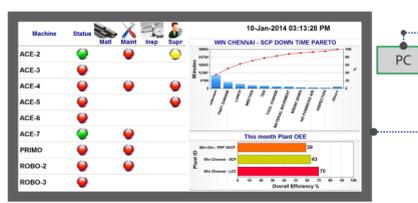- Interlocks/Alerts based on energy consumption pattern

Machine Diagnostics

- **Live Status**: Running Program Number, Feed , Axes positions
- Power ON Time, Operating Time, Cutting Time
- System Alarms
- **MTB Alarms**: Preventive, Predictive and Run based Operation history, and aggregates
- **Spindle and element characteristics**: Load, Speed, RPM, Temperature#

Visual Factory & ANDON

- **Live Production Status of Line/Machine**
  - Part count, Downtime and efficiencies
  - Trend charts
  - Help request status
- **Visual alerts**
  - Enable quick, targeted responses to decrease losses
  - Enable decision makers with Right data at Right time
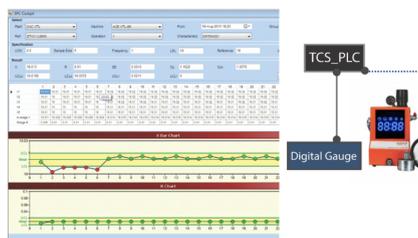 - Enable operators with real time display of SOPs, Best practices, Safety measures...

e-SHOPx & Work Flow Apps

- Enables workflow between the operator at the machine/ Assembly station and Central Production System
- Operator can access day schedule, drawings, process sheets, CNC program...
- Operator can raise Help Requests, update production status and rejection information...
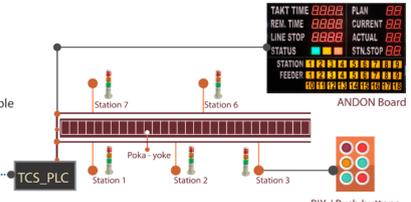- Can be implemented on PCs, Thin Clients or Tablets

Online Inspection & Poka Yoke

- Visual indicators of X-Bar, R Charts and Cp, Cpk values
- Excel Reports for Analysis and printing
- Process instability detection and interlock#
- **Interfacing with External Digital Gauge**
  - RS-232 Data can be interfaced with TCS_PLC
- **Probe Interfacing**
  - Data collection from Gauges interfaced with CNCs, via Macro locations and RS-232

Assembly & Conveyor Monitoring

- Automatically captures workflow, stoppages, and interactions between stations
- Provides visual indications of Help requests and Stoppages via 3-Tier Lamps, LED Boards...
- Provides instant communication to the right people with escalation workflow by way of SMS/email

ANDON Board | Poka - yoke | Station 7 | Station 6 | Station 1 | Station 2 | Station 3 | RIX / Push buttons

---

TPM-Trak®
Optimize your factory. Increase your profits!

1 INCREASE EFFICIENCY AND UTILIZATION
Increase efficiency of man, machine and process – using accurate, real-time OEE, machine utilization, stoppages data and analytics.

2 REDUCE COST PER COMPONENT
Reduce cost of machining, and consumables – by using accurate data and correlations between part production, machine hour rate, and usage of energy, tool consumption etc.

3 EMPOWER YOUR PEOPLE
Empower your decision makers with factual data, at the right time – so that root causes can be found faster, better, cheaper. By process.

4 IMPROVE MAINTENANCE
Improve time-to-respond and time-to-rectify with real-time alerts and escalation processes.

5 MAKE MORE MONEY
Increase your competitiveness and revenues. Your ROI within weeks!

6 MIS AND AUDIT
Drive your hourly, daily, weekly reviews, and TS16949/ISO processes using 1-touch TPM-Trak dashboards and reports.

PROFIT $