

Planning and Scheduling

- Visual production scheduling and planning for machines and tools
- Automatic schedule adjustments
- Kanban scheduling
- Labor and material requirements forecasting
- Machine capacity planning
- Tool conflicts

Monitoring, Data, and Communications

- Automated production monitoring for machine runtime and downtime
- Operator help calls with automatic notifications
- Automated alerts, messaging, and escalation
- Automated monitoring for process parameters

Production Optimization

- Manage machine loading to minimize downtime
- Cost reporting for scrap and machine downtime
- Compare actual cycle times to standard and planning rates
- Asset, plant, and network optimization
- Evaluate schedule conformance

Energy Management

- Monitor and analyze energy consumption by machine, job, shift, product
- Understand maintenance and quality in context of energy consumption
- Analyze direct energy required to produce any item



Visibility, Reporting, and Analysis

- Automated overall equipment effectiveness (OEE)
- Accurate, consistent efficiency metrics
- Production metrics, from machine to enterprise
- Downtime and scrap analysis
- Operator labor and productivity
- Visual root-cause indicators
- Real-time screens and views

Quality Management

- Automated process monitoring and parameter violation alarms
- Automatic part qualification/rejection
- Statistical process control (SPC) and statistical quality control (SQC)

Maintenance Management

- Machine and tool preventive maintenance
- Cycle or run hour preventive maintenance
- Automated notices for preventive maintenance

Business Architecture

- Accepts digital and analog machine signals directly from sensors or PLCs, or via OPC-compliant PLCs
- Microsoft® Windows Server® and Microsoft SQL Server® (current versions)
- Includes a template specific to plastics, metals, rubber and related industries, with complex capabilities like active cavity tracking and family molding

Continuous Improvement (CI) Integration

- Lean
- Six Sigma®
- Theory of constraints (TOC)
- Total productive maintenance (TPM)
- Common and custom CI metrics
- OEE, asset utilization, capacity utilization
- Mean time between failures (MTBF)
- Minor stops per runtime hour (MS/RH)
- Mean time to repair (MTTR)
- Root cause factors