



Reduce or Eliminate:

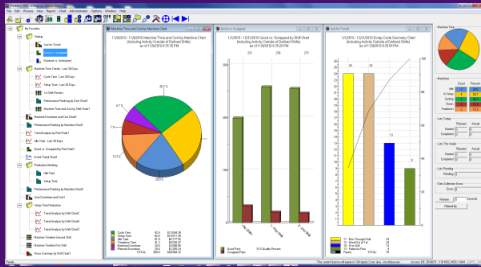
- Setup time
- Downtime
- Scrap

Improve:

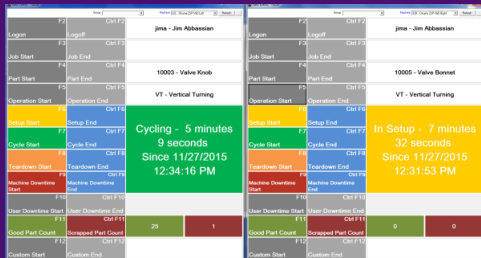
- Job planning and quoting accuracy
- Personnel productivity
- Machine and resource usage
- Maintenance planning

Collect Shop Floor Data, including:

- Setup time
- Cycle time
- Scrap
- Personnel time
- Break time
- Meeting time
- Preventive maintenance
- Machine downtime
- Tooling downtime
- Gauging downtime
- Material downtime
- Personnel downtime
- And more...



Manage multiple trend charts with real-time updates



Touch screen support for multiple spindle gantries, 1 man 2, 1 man 3 and other combinations are supported to simplify manual data collection.

Predator MDC is based on an open architecture client/server database standard. Select from Oracle, Microsoft SQL Server or Microsoft Access.

What is Predator MDC?

Real-time machine monitoring software that automatically collects, reports, charts and processes real-time shop floor manufacturing data including OEE, cycle time, idle time, setup time, teardown time, machine downtime and more. Predator MDC improves manufacturing by supplying accurate shop floor productivity metrics to improve operations and make better business decisions.

Why use Predator MDC?

- Automatic and manual data collection
- One Network to monitor all your CNC machines, robots, PLCs and CMMs
- 18 real-time machine, job and part dashboards
- Real-time slideshows and digital signage
- Multiple plant support
- Unlimited number of data collection events
- 30,000+ reports and charts
- 100+ KPIs and Metrics
- Real-time OEE dashboard, OEE charts and OEE reports
- Supports wireless, ethernet, RS-232 and parallel I/O
- Open API and database architecture
- Includes Predator MDC Executive
- Optional MDC for Android application
- Includes Predator DNC for send, receive and dripfeed
- Use your existing ERP and MES barcoded paperwork
- 10 international languages

Automatic and Manual Data Collection

Predator MDC supports automatic, error-free, and unattended machine monitoring for events such as job start and end, setup start and end, cycle start and end. Data is collected automatically using software, hardware, custom macros and other methods without requiring operator training or input.

Predator MDC also supports manual monitoring of events initiated by machine operators such as machine log on/off, downtimes, and scrap reasons. Predator MDC can manually collect data via Remote Request™, scanning barcodes, touch screen tablets or standard PCs.

Monitor Your CNC Machines, Robots, PLCs and CMMs

Predator MDC supports up to 4096 machines per PC for simultaneous cycle time, setup time, teardown time, downtimes with reasons, good parts, scrap parts with reasons and an unlimited number of user-defined events.

Real-time Machine, Job and Part Dashboards

Keep score of your shop floor productivity with Predator MDC. Every second is tracked per machine, job, part, operation, shift and person. Real-time dashboards display current machine, part, job, operation and personnel status. Multiple engineers, supervisors and managers can view the dashboard from any networked PC. Leverage the power of the internet and VPN from anywhere in the world to see the status of your shop floor. Dedicate one or more large screen monitors on the shop floor for real-time digital signage. Eliminate manual posting of paper reports and charts.

Multiple Plant Support

Predator MDC supports an unlimited number of plants or buildings right out of the box. Compare plants or compare buildings to improve productivity. Organize your machines by grouping them per building or cell.

30,000+ Reports and Charts

Over 30,000 reports and charts provide unique insight into the productivity and efficiency of each manufacturer. Identify issues and drive improvements via flexible reporting and charting. Predator MDC converts volumes of raw data into 100+ actionable KPIs. Multiple pie, bar, pareto and trend charts can be combined to create custom dashboards organized within a collection of favorites.

Real Time OEE Software

Eliminate manual - OEE driven data collection and OEE spreadsheets. Predator MDC supports real-time OEE data collection with an OEE dashboard, OEE performance ranking charts, OEE trend analysis charts and OEE reports.

ERP and MES Integrations

Predator MDC Enterprise can integrate your ERP and MES systems with Predator. Standard integration options include CSV, JSON, MTConnect, OPC-UA, Predator APIs, TSV and XML. In addition, Predator can provide a complete database schema for direct database style integration. Predator MDC Export Service includes 40+ tags per machine and is designed to export Predator MDC data in real-time via JSON, MTConnect, OPC UA or XML. Predator MDC's APIs (application programming interface) include 300+ fully documented methods with examples. Develop ERP, MES and shop floor integration where part and job numbers flow directly from other systems into the Predator database. Automation projects can be completed with C#, C++, VB.Net, VB6, VB script, Windows Script, Delphi and other compatible programming languages.

70+ Industrial Machine Monitoring Protocols

Protocol	Interface
ASCII - Simple	Serial, Ethernet, Parallel
ASCII - Custom	Serial, Ethernet, Parallel
Allen Bradley SLC	Ethernet
Binary - Simple	Serial, Ethernet, Parallel
Binary - Custom	Serial, Ethernet, Parallel
Bostomatic	Serial
Brother Dialog	Serial
Bridgport Easylink	Serial
BTR	Parallel
BWO DNC	Serial
Camate	Serial
Cincinnati Laser	Ethernet
Cognex Dataman	Ethernet
Danobat	Ethernet
DMG Mori Seiki MAPPS	Ethernet
DMG Mori Seiki Celos	Ethernet
EIA358C	Serial
Elexa	Ethernet
Excellon	Serial
Fadal Checksum	Serial
Fagor 8020	Serial
Fagor 8050	Serial
Fanuc A	Serial
Fanuc Expand A	Serial
Fanuc Cassette	Serial
Fanuc DPRNT	Serial
Fanuc FOCAS	Ethernet
Fanuc Robot	Ethernet
FTP Client	Ethernet
FTP Server	Ethernet
GE IPP	Serial
Haas 143	Serial
Haas DPRNT	Serial
Haas	Ethernet
Heidenhain	Serial
Heidenhain	Ethernet
Highland BTR	Serial
Kauffman	Serial
JSON	Ethernet
Kermit	Serial
Linatrol	Serial
LSV2	Serial
Mazak DPRNT	Serial
Mazak Mazatrol	Serial
Microsoft Access	Ethernet
Microsoft SQL Server	Ethernet
Mitsubishi DPRNT	Serial
Modbus TCP/IP	Ethernet
Motoman Yaskawa	Serial
MTConnect	Ethernet
Okuma A	Serial
Okuma B	Serial
Okuma THINC	Ethernet
Okuma User Task 2	Serial
OPC DA	Ethernet
OPC UA	Ethernet
Oracle	Ethernet
Parpas	Ethernet
Predator HHT	Serial
Predator MDC 3G	Ethernet
Predator MDC API	Ethernet
Predator Secure CM100	Ethernet
Predator Secure DNC	Ethernet
Predator Secure Gerber	Ethernet
Predator Secure HID	Ethernet
Predator Secure OPC	Ethernet
Predator Secure Siemens	Ethernet
Predator Siemens OPC UA	Ethernet
RS244B	Serial
SMB	Ethernet
Starlink	Serial
TCPIP Client	Ethernet
Text File	Ethernet
XML	Ethernet
XModem	Serial



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