

# PREDATOR MDC REAL-TIME ANALYTICS

**REDUCE OR ELIMINATE:**

- Set up time
- Downtime
- Scrap

**IMPROVE:**

- Capacity planning
- Quoting accuracy
- Personnel productivity
- Machine and resource usage
- Maintenance planning

**CHOOSE FROM 3 EDITIONS:**

- Predator MDC Express
- Predator MDC
- Predator MDC Enterprise



**MACHINE MONITORING & DATA COLLECTION:**

Real-time machine monitoring and automatic manufacturing data collection software with hundreds of reports, charts, and dashboards. Track jobs, parts, operations, work centers, cost centers, people, OEE, scrap, downtime, and 50 other metrics.

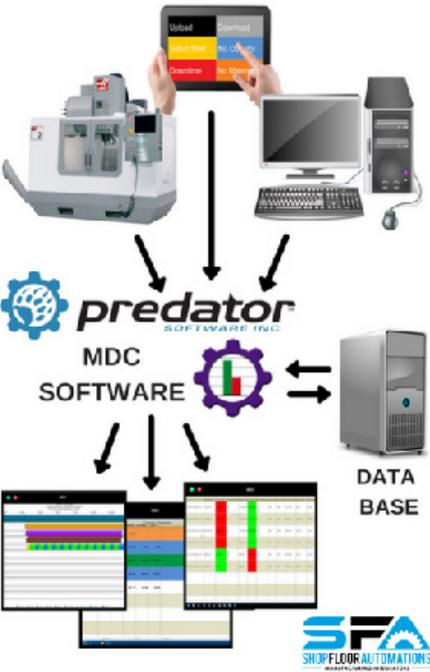
**WHAT IS PREDATOR MDC?**

Predator MDC is 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. MDC improves manufacturing by supplying accurate shop floor productivity metrics to improve operations and to make better decisions.

**AUTOMATIC & MANUAL DATA COLLECTION:**

MDC supports automatic, error-free, and unattended machine monitoring for events such as job start and end, set up start and end, cycle start and end, and more. This type of data is collected automatically using software, hardware, custom macros, and other methods. No operator training or input needed.

Predator MDC also supports manual monitoring of events that are initiated by machine operators such as machine login/logoffs, downtimes, and scrap reasons. MDC can be used to manually collect data using several methods including Remote Request™, bar codes, touch screen PCs, or standard PCs.



**MONITOR ALL YOUR CNC MACHINES, ROBOTS, PLCs, & ATE TEST STANDS:**

Predator MDC supports up to 4096 CNC machines, robots, PLCs, and ATE Test Stands per PC. Monitor simultaneous cycle time, setup time, teardown time, downtime with various reasons, good parts, scrap parts with reasons, and an unlimited number of user defined events.

**REAL-TIME MACHINE, JOB, & PART DASHBOARDS DISPLAY:**

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.

Machine Status for All Machines												
Machine	Status	Since	Utilization %	User	Part	Good	Scrapped	Job	Customer	Operation	Finished Cycles	
L203 - Doosan Puma 2100	Down - No Operator	5/6/2016 3:12:16 PM	100.00	1005 - Joshua Ray	1080-06-SS - 318 HNDLS - 6"	0	0	0	J1002 - Handle	10	0	
M201 - Mori Seiki NHX 4000	Down - No Operator	5/6/2016 3:12:16 PM	99.98	1009 - Josh Reynolds	1080-06-SS - 318 HNDLS - 6"	0	0	0	J1002 - Handle	10	0	
M202 - Okuma MA-400H	In Setup	5/6/2016 3:15:08 PM	99.99	1009 - Josh Reynolds	1081-05-SS - 318 HNDLH - 6"	10	10	10	J1005 - Handle	10	1	
M204 - Makino a51rx	Down - No Operator	5/6/2016 3:12:16 PM	100.00	1004 - Amy Gates	1081-06-SS - 318 HNDLH - 6"	0	0	0	J1006 - Handle	10	0	
L101 - Haas ST20SS	Cycling	5/6/2016 2:05:22 PM	100.00	1002 - Sam Wilkins	2014-150-75 - 7075 RVL - 1.50"	0	0	0	J1004 - Knob	20	0	
L103 - Doosan Lynx 220LMA	Cycling	5/6/2016 2:00:01 PM	100.00	1002 - Sam Wilkins	2014-150-75 - 7075 RVL - 1.50"	0	0	0	J1004 - Knob	10	0	
L102 - Mazak Multiplex 6200-II	Cycling	5/6/2016 2:05:28 PM	100.00	1007 - Guy Barrow	2014-200-75 - 7075 RVL - 2.00"	0	0	0	J1003 - Knob	20	0	
L104 - MTConnect	Down - Emergency Stop	5/6/2016 8:01:31 AM	0.00		FLANGE_CAM NGC	0	0	0			0	

## REAL-TIME SLIDESHOWS FOR DIGITAL SIGNAGE:

Dedicate one or more large screen monitors on the shop floor for real-time digital signage. Create slides of charts, dashboards, and reports with specific filters and details. Eliminate manual posting of paper reports and charts. Provide a focal point for stand-up shop meetings while enforcing productivity. Manufacturing metrics that management, engineering, and quality control departments care about.

## MULTIPLE PLANT SUPPORT:

Supports an unlimited number of plants and buildings right out of the box. Multiple plants can share a single database for enterprise-wide reports and charts, or each plant can have a separate database. Improve productivity by comparing plants. Organize machines by building, cell, or other grouping categories. Network PCs, CNCs, robots, PLCs, and ATE test stands to create a real-time shop floor machine monitoring and data collection system.

## 25,000+ REPORTS & CHARTS:

Over 25,000 reports and charts provide unique insight into a manufacturer's productivity and efficiency. The flexibility of reporting and charting options within Predator MDC converts the volume of data collected into concise reports or charts to identify issues and drive improved productivity.

## 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.

## OPEN API & DATABASE ARCHITECTURE:

Integrate your ERP and MES system with Predator MDC's open API (application programming interface) with 300+ methods all fully documented. Develop ERP and shop floor validation, flow part, and job numbers from ERP directly into Predator, and complete numerous other automation projects with C#, C++, VB.Net, VB6, VB script, Windows Script, Delphi, and other compatible programming languages. Predator MDC is based on an open architecture client/server database standard. Select from Microsoft Access, Microsoft SQL Server, and Oracle.

## INCLUDES PREDATOR MDC EXECUTIVE:

Predator MDC Executive is an easy to use browser-based dashboard which provides an executive overview without having to install Predator MDC software.

## INCLUDES PREDATOR DNC:

Every Predator MDC/x Enterprise includes Predator DNC/x Enterprise. Every Predator MDC/x license includes Predator DNC/x for integrated Send to CNC, Receive from CNC, and drip-feed operation.

## WHY USE PREDATOR MDC?

- Automatic data collection
- Manual data collection
- 1 Network to monitor CNC machines, robots, PLCs, and ATE test stands
- Real-time machine, job, and part dashboards
- Real-time slideshows and digital signage
- Multiple plant support
- Unlimited data collection events
- 25,000+ reports and charts
- Real-time OEE dashboard, OEE charts, and OEE reports
- Supports wireless, Ethernet, RS232, and parallel I/O
- Open API and database architecture
- Includes Predator MDC Executive
- Includes Predator MDC for DOS
- Includes Predator DNC for Send, Receive, and drip-feed
- Use your existing ERP and MES bar coded paperwork



Shop Floor Automations, Inc.  
5360 Jackson Drive, Suite 202  
La Mesa, CA 91942-6003

**Phone:** (619) 461-4000  
**Toll Free:** (877) 611-5825  
**Fax:** (619) 461-5918

**Web:** [www.ShopFloorAutomations.com](http://www.ShopFloorAutomations.com)  
**Email:** [sales@ShopFloorAutomations.com](mailto:sales@ShopFloorAutomations.com)

