

How MachineMetrics saved CPM **\$1.5 million** in one year



CLIENT

CAROLINA PRECISION MANUFACTURING

SWISS CNC MANUFACTURER IN ROWAN COUNTY, NORTH CAROLINA

Specialists in small-diameter precision-machined parts

PRIMARY INDUSTRIES SERVED

Aerospace, Defense, Industrial

PRIMARY EQUIPMENT

36 Citizen Swiss Turn Machines operate around the clock

PRODUCTION FACILITY

30,000 Square Feet



CHALLENGE

“MachineMetrics is a tool for finding problems that we didn’t know we had; for finding and addressing the issues as they came up and not after they had happened.”

— Gary Bruner, President of Carolina Precision Manufacturing

LACK OF VISIBILITY



No way to know how well jobs were coming along in real time



Inefficient setup procedures had simply never been analyzed or augmented previously.



No way of knowing the primary reasons for downtime



Manually recorded data was not actionable

INEFFICIENCY AND INACCURACY OF MANUAL TRACKING



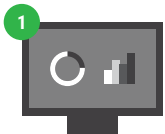
Historically, CPM had an employee dedicated to the Manual collection of utilization data



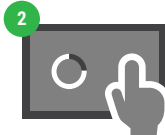
Manual tracking prone to errors



Manual measurement both tedious and time consuming (upwards of 2 hours per day)



Real- time Dashboards installed on TV's across the shop floor to monitor machine performance



Operator touch screens installed at every machine for downtime and quality tracking

SOLUTION

“The information we get changes the way we work. MachineMetrics naturally aligns employee goals with company goals. We’re all on the same mission now.”

— Gary Bruner, President of Carolina Precision Manufacturing

RESULTS

INCREASED MACHINE UTILIZATION AND AVAILABILITY



If a job falls behind production goals, the color of the tile changes, and text notifications are sent to managers



Enables action to be taken immediately instead of waiting for the next day or next week



Detailed reporting and analytics helps management identify the most significant problems

PRODUCTION QUALITY IMPROVEMENT



Monitoring the live dashboard decreases the hours dedicated to the task and improves production quality



Operators use the tablet to classify rejections in real-time, allowing quality managers to respond immediately



Eliminates all the paper required for non-conformance



Real-time pareto charts report on quality accurately with automatic data collection to quickly identify the most significant recurring problems and solve them immediately



OPERATOR ENGAGEMENT



MachineMetrics motivates operators to keep up with their goals and improve their job satisfaction



“Keeping it in the green” has become a mantra across the shop floor. Operators are able to make faster decisions to improve production speed, availability, and quality

For CPM, there was an obvious and immediate benefit in understanding downtime and whether or not their machines were running optimally. After just their first year with MachineMetrics, CPM produced:

METRICS

**After only
one year**

An average of 688 additional operating hours per machine

A 20% increase in Machine Utilization.

At \$60/hour, that averages out to an additional \$41,280 of billings per machine.

CPM's initial investment in MachineMetrics was returned within only 11 days of using the software.

2 hours per day of administrative savings

“MachineMetrics enabled CPM to increase capacity by \$1.5 million in 2016 with no additional machines!”

— Gary Bruner, President of Carolina Precision Manufacturing



Contact us

413-341-5747

info@machinemetrics.com

MachineMetrics.com