



The Metrics

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

— Gary Bruner, President of Carolina Precision Manufacturing

20%

IMPROVEMENT IN
MACHINE UTILIZATION

730

HOURS OF ADMINISTRATIVE
SAVINGS PER YEAR

24,768

IN ADDITIONAL MACHINE
HOURS PER YEAR

\$41,280

INCREASE IN BILLINGS
PER MACHINE

\$1.5 MM

INCREASE IN BILLINGS
PER YEAR

11

DAYS TO
REACH ROI

CONTACT US

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CPM

CASE STUDY: SWISS

Increasing capacity by **\$1.5 million** in year one



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

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

“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

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)

“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

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

RESULTS



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

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