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Metalworking Case Study
Oregon Mountain Rifle
Reduced Cycle Time

Metalworking Case Study

DOCUMENTED COST SAVINGS: **\$158,080/Annually**

PRODUCT CATEGORY: **Cutting Tools**

REALIZED: **Reduced Cycle Time**

SUPPLY PARTNER:



CUSTOMER PROFILE

Oregon Mountain Rifle became a Stellar Industrial Supply customer approximately two months ago after re-engaging with Stellar following a period of purchasing through other vendors. As a precision rifle manufacturer, the company relies heavily on machining efficiency and consistent production output in its barrel manufacturing operations.

THE OPPORTUNITY

During discussions with the customer, Stellar identified an opportunity to improve barrel production efficiency through a tooling and process change. The existing machining process required multiple operations and sanding cycles, resulting in lengthy cycle times and unnecessary labor consumption. The customer was looking for a better-performing solution that could streamline production and improve throughput.

SOLUTION

Stellar introduced and tested a Kyocera insert solution designed to simplify the machining process and reduce overall production time. The insert demo proved highly successful, eliminating secondary sanding operations and consolidating production into a single machining cycle. In addition to the immediate labor savings, further cost reductions are expected through ongoing insert-to-insert savings as the process continues to develop.

RESULT

The new process reduced cycle time **from 25 minutes per barrel to just 6 minutes**, cutting 19 minutes from each production cycle. Based on an annual production volume of 4,000 barrels, the improvement generated **\$158,080 in documented annual savings**. The process remains ongoing and is expected to continue delivering year-over-year savings while strengthening Stellar's relationship with the customer through proactive process improvement and technical support.

"Stellar and Kyocera teamed up to solve a tricky carbon fiber gun barrel turning application for Oregon Mountain Rifle. By replacing expensive CBN-tipped inserts with a sharp, DLC-coated insert and stick tool, we cut costs while massively improving performance. The customer immediately slashed cycle times by spinning faster and feeding harder—all while achieving a flawless surface finish that eliminated the need for hand sanding. Huge win for everyone thanks to the Stellar team bringing us this opportunity!"

- Dan Burkett – Clark Manufacturers Service



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Sustaining win-win partnerships for Stellar value.

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