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Aerospace Case Study
Product Cost Savings and Labor Cost Savings

Aerospace Case Study

DOCUMENTED COST SAVINGS: \$49,742.00**PRODUCT CATEGORY: Product Cost Savings
plus Labor Cost Savings****SUPPLY PARTNER:**

CUSTOMER PROFILE

A precision manufacturing firm specializing in the production of machined component parts and small assembled components for the aerospace, defense and commercial industries.

THE OPPORTUNITY

Earlier this year, Stellar partnered with the customer to identify key process improvements, with CNC threading as an initial focus. A critical issue was the 9/16"-18 center thread on a component, where nearly all parts required manual re-tapping due to a bottom taper defect, increasing scrap risk. The previous thread mill also demanded frequent wear offset adjustments and multiple passes, contributing to inefficiencies. Addressing these challenges presented significant potential to improve quality, reduce labor, and increase throughput.

SOLUTION

Following consultation with Steiner Technologies, the exclusive North American importer of JBO products, Stellar Metalworking Specialist William Moorehouse recommended replacing the previous tool with a 6-flute JBO thread mill featuring advanced cutting geometry. Testing confirmed strong performance: although the JBO tool costs \$290 versus the previous tool cost of \$150, it achieves longer tool life (215 parts per tool vs. 150), requires only two passes, and reduces cycle time by 2 minutes.

RESULT

While savings from eliminating re-tapping and wear adjustments are harder to quantify, the overall improvements are clear. Based on a projected run of 10,000 parts, the total savings are estimated at \$49,742.00. As a result of improvement, Stellar is already working on reviewing additional threading processes to ensure the adoption of the latest techniques, consistent programming, and effective defect prevention that will drive further profitability.

"Working with William and Patrick at Stellar has been a great fit for us at Steiner. Their technical know-how and drive match our own, and together we continue to bring the most advanced tooling options to the Southwest market. These are exactly the kind of collaboration we look for."

- Tyler Nolan, Vice President of Sales Steiner



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Sustaining win-win partnerships for Stellar value.

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