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Aerospace Case Study
Scuff Plate Finishing Process

STELLAR



Aerospace Case Study

DOCUMENTED COST SAVINGS: **\$750,000.00/YR**PRODUCT CATEGORY: **Abrasives**REALIZED: **Process Improvement,
Labor Cost Savings**SUPPLY PARTNER: **3M**

CUSTOMER PROFILE

In the highly competitive aerospace industry, building aircraft, sub-assemblies, and components efficiently, sustainably, and cost effectively requires innovation and improved performance throughout the production process.

THE OPPORTUNITY

Stellar was asked by the aerospace client to find an automated solution for finishing scuff plates. Automation was being pursued as the current process caused a lot of vibration and repetitive wrist motions that could negatively effect employees.

SOLUTION

Due to the inconsistencies seen in the manufacturing of these parts it was suggested that a more stable finishing process needed to be designed before the task could be automated. The new method developed with 3M proved to be an alternative solution to the existing process that allowed for reduced vibration and less complex wrist motion during finishing.

RESULT

The new method also showed to take less than half the time compared to the current method. Based on labor rate, a savings of \$750k per year is achievable. The new method also provides consistent finishing that the previous method did not.

*"Would be great to get a quote from 3m person who worked with Stellar on this.
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- Jake Quiring - 3M Industrial Customer Specialist

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STELLARINDUSTRIAL.COM