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Metalworking Case Study

Faster Cycle Times, Extended Tool Life

Metalworking Case Study DOCUMENTED COST SAVINGS: **\$50,409.10/Annually**PRODUCT CATEGORY: **Cutting Tools**REALIZED: **Faster Cycle Times & Extended Tool Life**

SUPPLY PARTNER:



CUSTOMER PROFILE

A large tooling manufacturer that has been a Stellar Industrial Supply customer for over 20 years. In addition to purchasing tooling, they also manufacture tooling, taps, end mills, etc. for distribution.

THE OPPORTUNITY

The customer was interested in testing/development of a process to rough mill large diameter tap blanks previously machined on manual equipment to a CNC process. The need to improve cycle times and extend tool life became critical, especially as older equipment required replacement and processes needed optimization to maintain efficiency.

SOLUTION

Initial testing with a few manufacturers showed promise but very inconsistent results. Stellar partnered with Seco and the customer to test a high-feed mill in their existing CNC process. Through hands-on collaboration and application support, Stellar & Seco introduced a solution that significantly improved machining performance. The new tooling reduced cycle times while dramatically increasing tool life, helping stabilize and enhance the customer's manufacturing process.

RESULT

The implementation reduced cycle time from 45 minutes to 20 minutes and increased tool life from 45 minutes to 400 minutes, resulting in \$50,409.10 in documented savings. This solution has become an ongoing part of the customer's operation, with additional testing already underway to identify further process improvements and cost-saving opportunities.



STELLAR



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