Toyoda Helps AMD&E Reduce Lead Times, Increase Productivity

TOYODA

CHALLENGE

Accelerated Machine Design & Engineering is a full-service provider of high-value, high-performance engineered solutions, specializing in advanced manufacturing systems and precision components. AMD&E offers complete lifecycle support from concept, design and manufacturing to assembly, serial production, rebuilds and end-of-life replacement. Their 360-degree support became impossible to maintain as demand sharply increased—leading AMD&E to start outsourcing projects.

Many of the machines AMD&E produces consist of large components such as bases, frames and slides that require precision on all faces. In addition to their own products, their contract machining division was inundated with large component jobs and projects for parts that required higher SFM—increased spindle speeds, increased tool rigidity, faster tool changes and part probing. In order to meet quality standards and target deadlines, AMD&E knew they had to bring their full operation back in-house.

GOALS

- Bring all machining in-house, including large parts.
- Improve quality without increasing job costs.
- Expand capabilities to bid new jobs.
- Increase efficiency and reduce lead times.

SOLUTION

AMD&E saw an opportunity to **IMPROVE LARGE COMPONENT QUALITY** by bringing machining in house. A well-engineered bridge mill would provide a competitive advantage and allow them to **BETTER SERVE THEIR CUSTOMERS**. To address the need for higher SFM requirements, AMD&E found the perfect match in the Stealth VMC.

- SB316YM Bridge Machining Center
- Stealth 1565 Vertical Machining Center

OUTCOME

ELIMINATED 2,000 HOURS OF OUTSIDE OPERATIONS

AMD&E was able to bring all machining in house in a six-month period—including transportation, setup, handling and inspection.

REDUCED LEAD TIME FROM 24-30 WEEKS TO THREE DAYS

While drastically increasing speed to market, AMD&E was also able to improve quality and accuracy of machine components.

INCREASED WORKFLOW AND PRODUCTIVITY

AMD&E went from 4-5 setups per part and 1-5 outsourced operations to 2-3 setups and minimal outsourcing. Time per hole has been reduced from minutes to seconds, and the Stealth brought the tool change down to just a few seconds from 20.

ZERO COMPROMISES

A larger machining capacity allowed AMD&E to eliminate part numbers, decrease number of joints, and improve accuracy—leading to a better product overall.

Partner with Toyoda and find your solution.









