

THIRD WAVE SYSTEMS

MODELING TECHNOLOGY · MACHINING SOLUTIONS

APPLIED ENGINEERING

Applied Engineering specializes in high speed milling of aluminum components to close tolerances. They provide their customers major cost savings through their efficient machining processes, which allows Applied to quickly produce the parts customers need to get to market faster.

In 2014, Applied Engineering began optimizing their processes with Production Module on three aluminum aerospace structure parts. Almost immediately, engineers began seeing significant savings in machine hours, reduced cycle times and tool consumption.

Part: Center Partition (aluminum aerospace structure component)

Approach:

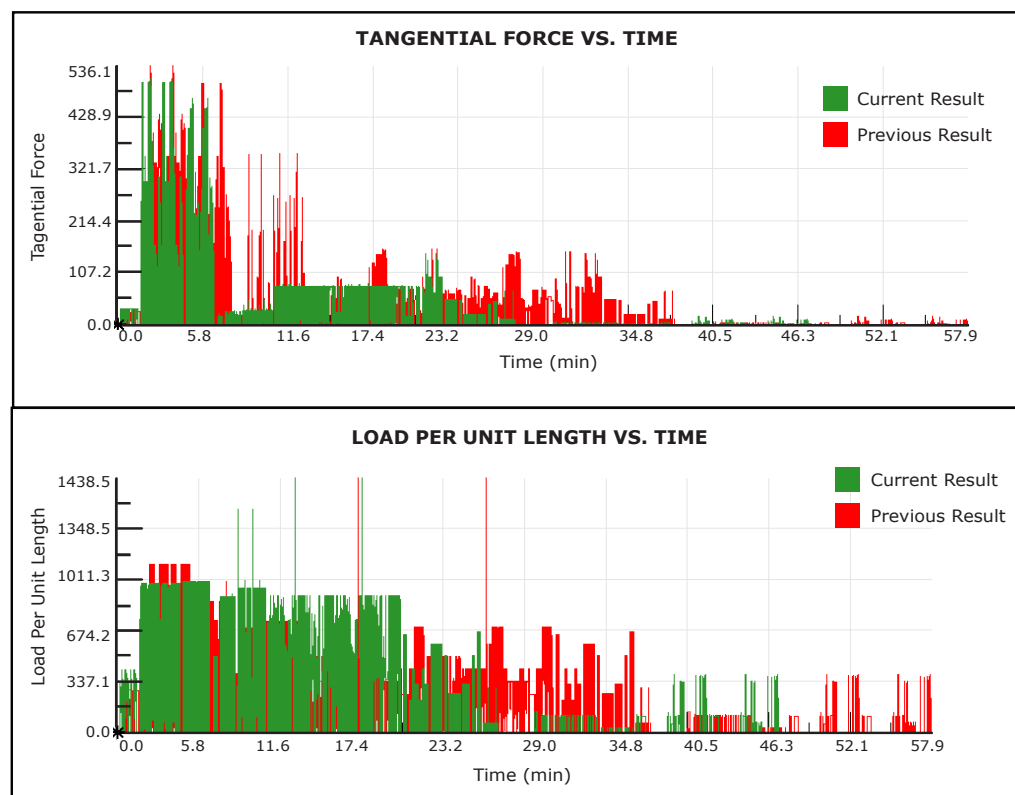
- » Engineers from Third Wave Systems went onsite at Applied Engineering to train and implement the optimization of three aluminium aerospace structure parts, including the Center Patrician

Implementation:

- » Third Wave Systems NC optimization product, Production Module, was used to optimize the machining process.

Results:

- » 25% reduction on 300-500 parts machined per month
- » 55% reduction in amount of tools used
- » Overall, Applied Engineering saw more than **4,250 machine hours in added capacity** (nearly 80% of one machine) due to optimizing processes with Production Module.



BEFORE PRODUCTION MODULE
Cycle time: 37 minutes/part

AFTER PODUCTION MODULE OPTIMIZATION
Cycle time: 28 minutes/part, freeing up 540 machine hours

SEE MORE. KNOW MORE.




www.thirdwavesys.com