

Original T-A®

Case Study: 1009
Industry: Medical
Part: Orthopedic Component
Material: Stainless Steel
Diameter: 0.437"
Item: 180A-13-NC



The Challenge

A customer manufactures orthopedic instruments and implants for the medical industry. They use a HAAS VMC with water soluble coolant to produce their products. The part being machined is an orthopedic component made from stainless steel designed to support a human vertebral column.

The customer wanted to remain with Allied products, and they requested a solution to further improve the hole finish and increase tool life.

The Advantages

The change of Original T-A geometry and coating successfully improved the tool life and the hole finish.

- Provided 4x the tool life

Previous Tooling

Original T-A insert (item 180N-13) with modified

- 250 RPM
- 0.005 IPR
- Cycle time = 4 minutes
- Tool life = 25 holes

Allied Machine Solution

Original T-A®

- 280 RPM
- 0.005 IPR
- Cycle time = 4 minutes
- Tool life = 100 holes

