

Orthopedic Component: Original T-A®

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 **Original T-A** geometry and coating successfully improved the tool life and the hole finish.



| Product: Original T-A® Objectives: (1) Increase tool life (2) Improve hole finish Industry: Medical Part: Orthopedic component Material: Stainless steel Hole Ø: 0.437" (11.1 mm) | Measure | Competitor | Original T-A® |
|---|------------|--------------------------|--------------------------|
| | RPM | 250 | 280 |
| | Feed Rate | 0.005 IPR (0.127 mm/rev) | 0.005 IPR (0.127 mm/rev) |
| | Tool Life | 25 holes | 100 holes |
| | Cycle time | 4 min | 4 min |



4x tool life increase

► Original T-A
Insert: 180A-13-NC



The Original T-A provided:

- ✓ Increased tool life
- ✓ Improved hole finish