

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.



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

▶ Original T-A
Insert: 180A-13-NC

4x tool life increase

The Original T-A provided:

- ✓ Increased tool life
- ✓ Improved hole finish