

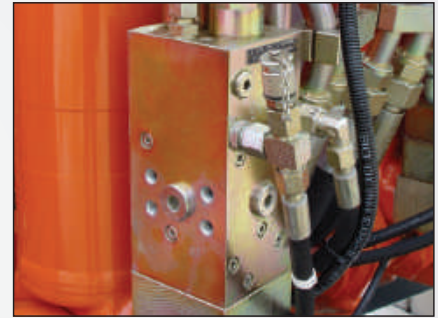


## Making changes for better tool life.

Sometimes you just have to try another option. Our customer was machining titanium hydraulic manifolds using our tiny chip geometry drill insert. They were only able to achieve one or two holes per insert & requested our support to improve tool life.

The **T-A Pro** ISO-specific "M" geometry insert with AM460 coating, which provides industry-leading tool life in stainless steels and heat resistant superalloys, was the tool for the job. Not only was the customer able to run at higher penetration rates, but they were also able to improve their tool life with five to six holes per insert.

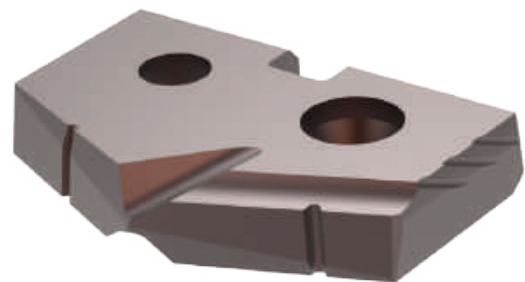
Improving your application doesn't have to be difficult. *We'll work with you to find the solution that makes the most sense.*



		Measure	Competitor Drill	T-A Pro Drill
<b>Product:</b>	T-A Pro drill			
<b>Objective:</b>	Increase tool life	<b>RPM</b>	349	349
<b>Industry:</b>	General machining	<b>Speed</b>	80 SFM (24.38 m/min)	80 SFM (24.38 m/min)
<b>Part:</b>	Hydraulic manifold	<b>Feed Rate</b>	0.0040 IPR (0.10 mm/rev)	0.0070 IPR (0.18 mm/rev)
<b>Material:</b>	6Al4V titanium	<b>Penetration Rate</b>	1.40 IPM (35.6 mm/min)	2.44 IPM (62.0 mm/min)
<b>Hole Ø:</b>	0.875" (22.23 mm)	<b>Total Part Cycle Time</b>	2 min 51 sec	1 min 38 sec
<b>Hole Depth:</b>	4.000" (101.60 mm)	<b>Tool Life</b>	1 hole	5 holes
<b>Tolerance:</b>	+/- 0.005" (0.13 mm)			
<b>Surface Finish:</b>	125 Ra µin (3.175 Ra µm)			

▶ T-A Pro insert  
P geometry (stainless steel)  
Item No. TAM1-22.23

400%  
tool life increase



The AM460 coated T-A Pro insert for use in stainless steels and HRSA's provided:

- ✓ Increased tool life
- ✓ Decreased cycle time
- ✓ Increased penetration rate

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