



Down Hole Mud Injection Tube: Original T-A®

A contract machine shop repairs and maintains equipment for the oilfield industry. They are machining a down hole mud injection tube used in offshore drilling. The tube is made from heat treated alloy steel. They are using a manual lathe running with water soluble oil coolant through the tool with a rotary coolant adapter.

Seeking to improve the production process, the customer needed to reduce the cycle time and decrease the cost of production.

The **Original T-A** lowered cycle time and increased tool life.



		Measure	Competitor Drill	Original T-A®
Product:	Original T-A®			
Objective:	Decrease cycle time	RPM	475	750
Industry:	Oil & gas/petrochemical	Feed Rate	0.005 IPR	0.0065 IPR
Part:	Mud injector tube	Cycle Time	4 min 42 sec	2 min 33 sec
Material:	Heat treated alloy steel	Tool Life	8 holes	11 holes
Hole Ø:	0.75"	Cost Per Hole	\$14.14	\$5.78
Hole Depth:	10.0"			



45% cycle time decrease

▶ Original T-A
Holder: 27010S-100L
Insert: 151A-0024



The Original T-A provided:

- ✓ Decreased cycle time
- ✓ Lowered the cost of production
- ✓ Increased tool life

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