Conquering chip control.

Don't let chips slow you down. Our customer who machines welding nozzles in copper was previously using a competitor drill that was running 80-85% spindle load on a new point. After 12,000 pieces, the point was overloading the machine spindle and had to be changed. Plus, they were experiencing undesirable chip control.

Looking to improve chip control and their overall process, the customer tested the T-A Pro drill with ISO-specific "N" geometry insert, designed for excellent chip control in nonferrous materials. With this combination, they were able to increase tool life, decrease cycle time, and decrease cost per hole.



Adding to the improvements provided by the T-A Pro, the customer experienced 65% spindle load on a new point and chip thickness that was .012 to .014, ultimately giving them excellent chip control-a feat they were happy to have achieved.

Triumph over your chip control challenges by letting us help you find the right solution.

		Measure	Competitor Drill	T-A Pro Drill
Product:	T-A Pro drill Improve chip control Industrial equipment Welding nozzle	RPM	3000	3000
Objective: Industry:		Speed	680 SFM (207.26 m/min)	680 SFM (207.26 m/min)
Part:		Feed Rate	0.0060 IPR (0.15 mm/rev)	0.0090 IPR (0.23 mm/rev)
Material:	Copper	Penetration Rate	18 IPM (457.2 mm/min)	27 IPM (685.8 mm/min)
Hole Ø: Hole Depth:	0.866" (22.00 mm) 2.000" (50.80 mm)	Total Part Cycle Time	6.67 sec	4.44 sec
Tolerance:	+/- 0.004" (0.10 mm)	Tool Life	12,000 holes	30,000 holes
		T-A Pro offered 35% cost per hole savings over the competitor tooling.		

