T-A PRO® DRILL

Moldmaking Made Easy.

Improve your mold and die applications with ease. When machining injection molds in aluminum, our customer was previously using a competitor drill that wasn't the most efficient. To decrease cost per hole and increase efficiency and tool life, they looked to us for the solution.

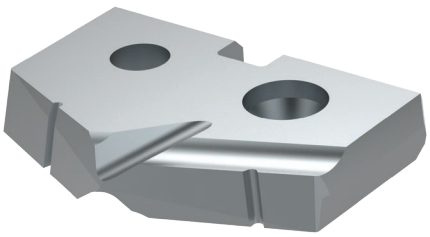
They tested two lengths of the ***T-A Pro drill*** with the ISO-specific "N" insert geometry. While they saw success in decreasing cost per hole, increasing efficiency, and increasing tool life, they also experienced excellent chip control in their application.

Being satisfied with your cutting tools is easier than ever when you ***contact us for the solutions.***

Product:	T-A Pro drill
Objective:	(1) Decrease cost per hole (2) Increase tool life/efficiency
Industry:	Mold & die
Part:	Injection mold
Material:	7075 aluminum
Hole Ø:	0.9374" *(23.81 mm)*
Hole Depth:	12.0000" *(304.80 mm)*
Tolerance:	+ 0.0100" (0.25 mm) - 0.0050" (0.13 mm)

Measure	Competitor Drill	T-A Pro Drill
RPM	2445	2934
Speed	600 SFM *(182.88 m/min)*	720 SFM *(219.46 m/min)*
Feed Rate	0.0080 IPR *(0.20 mm/rev)*	0.0130 IPR *(0.33 mm/rev)*
Penetration Rate	19.50 IPM *(495.3 mm/min)*	38.10 IPM *(967.7 mm/min)*
Cycle Time	37 sec	19 sec
Tool Life	450 holes	495 holes
T-A Pro offered ***48%*** cost per hole savings over the competitor tooling.		

- T-A Pro holder
  Item No. HTA1D01-100F
- T-A Pro holder
  Item No. HTA1D15-100F
- T-A Pro insert
  N geometry (nonferrous)
  Item No. TAN1-23.81



The TiCN coated T-A Pro insert for use in nonferrous materials provided:

- ✓ Decreased cycle time
- ✓ Decreased cost per hole
- ✓ Increased tool life