Tube Sheets: BT-A

The customer manufactures tube sheets made from Titanium (185-190 Bhn) using a horizontal Tarus heavy duty drilling machine operating at 2000 PSI (138 bar) with an oil based coolant. The customer is testing different tooling.

None of these tools were able to complete the operation to the customer requirements. All three tools failed with unacceptable hole straightness and tolerances above 0.017" (0.432 mm), which rendered the tube sheets unusable.



The **BT-A Drill** met the customer's needs.

Product: Objectives:	BT-A Improve process	Measure	Competitor	BT-A
Industry: Part:	Aerospace Tube sheets	RPM	400	125
Material: Hole Ø:	Titanium, 185-10 Bhn 0.758" (19.253 mm)	Feed Rate	0.005 IPR (0.127 mm/rev)	0.006 IPR (0.152 mm/rev)
Hole Depth:	15" (381 mm)	Penetration Rate	2.0 IPM (50.8 mm/min)	0.75 IPM (19.05 mm/min)



