Cylinders: BT-A

The customer machines cylinders made from 1045 steel using a Technidrill BTA machine operating at 900 PSI (62 bar) with semi-synthetic coolant.

The Ingersoll tools had difficulty drilling a straight hole, and the customer produced few parts that had the drill actually come out the side of the cylinder.

The **BT-A Drill** delivered a much straighter hole with less than 0.010" (0.254 mm) variance in cylinder wall thickness.

		Measure	Competitor	BT-A
Product:	BT-A	RPM	800	750
Objectives:	Improve process		800	730
Industry:	General machining	Feed Rate	0.0074 IPR (0.190 mm/rev)	0.0118 IPR (0.299 mm/rev)
Part:	Cylinders	Penetration Rate	5.9 IPM (149.86 mm/min)	8.85 IPM (224.79 mm/min)
Material:	1045 steel		0.1.40	4 1 50
Hole Ø:	1.375" (34.925 mm)	Cycle Time	2 min 43 sec	1 min 59 sec
Hole Depth:	17.7" blind hole (449.58 mm)	Tool Life	750 linear inches (19.05 M)	900 linear inches (22.86 M)
		BT-A offered 15% cost per hole savings compared to competitor tooling.		





