

Motor Couplings: EcoCut

The customer manufactures motor couplings made from powder metal. They use an Okuma CNC lathe with 200 PSI (13.79 bar) coolant through the tool to machine the center hole to 1.250" (31.750 mm) (+.002, -.000) starting with a 3/8" (9.525 mm) diameter cored hole.

To remain competitive with other companies, the customer needed to reduce machining costs.

The **EcoCut** tooling provided the solution the customer needed.



		Measure	Previous Tooling	EcoCut
Product:	EcoCut		Indexable Drill	Drill
Objective:	Reduce machining costs		<ul style="list-style-type: none"> • 400 SFM (121.920 M/min) • 0.005 IPR (0.127 mm/rev) • Hole Ø: 0.984" (24.994 mm) 	<ul style="list-style-type: none"> • 550 SFM (167.640 M/min) • 0.0025 IPR (0.064 mm/rev)
Industry:	Heavy equipment		Indexable Boring Bar	Bore
Part:	Motor couplings		<ul style="list-style-type: none"> • 200 SFM (60.960 M/min) • 0.003 IPR (0.076 mm/rev) • Hole Ø: 1.250" (31.75 mm) 	<ul style="list-style-type: none"> • 550 SFM (167.640 M/min) • 0.008 IPR (0.203 mm/rev)
Material:	Powder metal	Cycle Time	62.59 sec	23.41 sec

▶ EcoCut
Insert: XCNT 130408EN
Holder: EC 25R-1.5D 13-E

46% cycle time decrease

The EcoCut provided:

- ✓ Reduced required tooling
- ✓ Decreased cycle time