



Turrets: Revolution Drill®

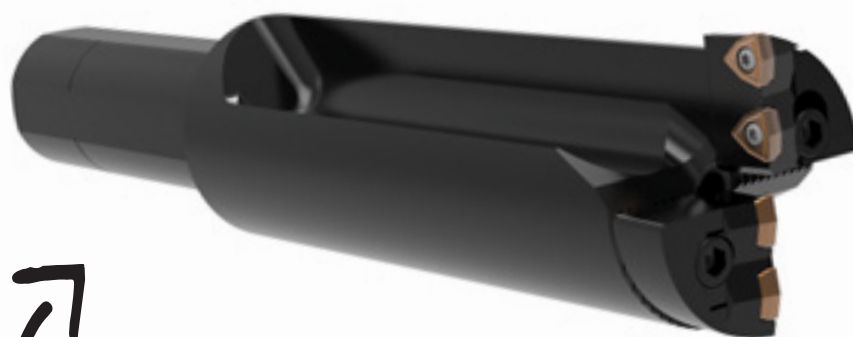
The customer manufactures turrets made from A36 structural steel using a Giddings & Lewis horizontal machining center MC60 with high pressure flood coolant.

To improve production, the customer needed to reduce the cost of this drilling operation.

The **Revolution Drill®** accomplished the customer's needs by reducing cycle time and increasing tool life.



		Measure	Competitor Tooling	Revolution Drill®
Product:	Revolution Drill®	RPM	100	825
Objective:	Decrease cost per part	Feed Rate	0.010 IPR (0.254 mm/rev)	0.003 IPR (0.073 mm/rev)
Industry:	Heavy equipment	Penetration Rate	1.0 IPM (25.4 mm/min)	2.475 IPM (62.865 mm/min)
Part:	Turrets	Cycle Time	5 min	1 min
Material:	A36 structural steel	Tool Life	15 holes	22 holes
Hole Ø:	2.1" (53.34 mm)	The Revolution Drill offered 57.61% cost per part savings over the competitor tooling.		
Hole Depth:	2.5" (63.5 mm)			



► Revolution Drill
Holder: R36X22-150L
Inserts: OP-05T308-H

80% cycle time decrease

The Revolution Drill® provided:

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

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