

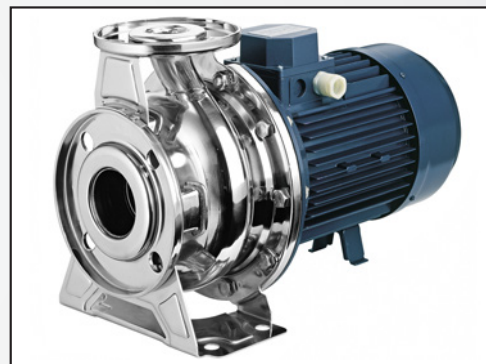


Pumps: Revolution Drill®

The customer manufactures pumps made from 304 stainless steel using a Mori-Seiki CNC machine with semi-synthetic coolant.

The customer needed to find a cost effective solution that would also reduce cycle time.

The **Revolution Drill®** successfully decreased cycle time and provided a superior hole finish.



Product: Revolution Drill® Objectives: (1) Decrease cycle time (2) Decrease cost Industry: Oil & gas/petrochemical Part: Pumps Material: 304 stainless steel Hole Ø: 3.5" Hole Depth: 7.5"	Measure	Competitor Tooling	Revolution Drill®
	RPM	596	596
	Feed Rate	0.003 IPR	0.005 IPR
	Penetration Rate	1.79 IPM	2.98 IPM
	Cycle Time	4 min 12 sec	2 min 31 sec
	Tool Life	8 holes	8 holes
	Cost per hole	\$10.66	\$7.68



► Revolution Drill
Holder: **R54X25-200L**
Inserts: **OP-05T308-T**

40% cycle time decrease

The Revolution Drill® provided:

- ✓ Decreased cost per hole
- ✓ Decreased cycle time
- ✓ Superior hole finish

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