

Real-Life Stories

Case Study: QC Parabolic Drills

Brought To You by Precision Twist Drills | Apr 25, 2018

It's the subtle things that add up to big savings in your machining costs. You can save a little on expenses such as materials, equipment, labor, and facilities. But the best way to cut costs dramatically is by increasing productivity.

A Partner Solution

Precision Twist Drills is not just a manufacturer of cutting tools. They partner with you to ensure your customers reach the productivity they require. Their high quality drills are part of the equation, but the value we provide is confidence that our cutting tools are right for your application.

Clean Cutting, Fast Throughput

Just switching to a Precision drill resulted in a savings of more than 80% in an aircraft landing gear machining operation. In a test performed for a large aerospace manufacturer, they compared Precision Twist Drill's parabolic flute deep hole drills (QC drills) to a competitive product. The Precision QC drill's superior performance completely eliminated "pecks" and its durability resulted in zero downtime for drill changes on a short production run. Projected yearly cost for new drills was cut by more than half.

	QC Drill	Competitor
Feed Rate (in/min)	4.970	0.990
Cutting Time / Component (min)	0.320	1.616
Total Time / Component (min)	0.320	30.320
Total Machining Cost / Component	\$0.748	\$50.998
Cost Savings / Year	\$12,060	\$0

Small Job, Big Savings

Even for limited-production jobs, the parabolic flute produced remarkable savings. The landing gear application required four 0.093" holes per component drilled to a depth of 0.400". At a production rate of just 240 components per year, our test projected an annual savings of over \$12,000.

Previously featured on *Dormer Pramet*.

Visit MSCdirect.com to browse Precision Twist Drill products.

www.mscdirect.com/betterMRO

Copyright ©2025 MSC Industrial Supply Co.