

How to Drill 1,000,000 Holes Without Retipping or Regrinding

West Ohio Tool's Guide to Maximum Savings on Cost Per Hole

MATERIALS	TOOLING	INDUSTRIES	RESULTS
Aluminum, Aluminum Alloys			Our customer experienced a 400% increase in tool life from 25,000 holes with solid carbide to 1,000,000 holes with EDGEX4® PCD tooling.
Carbon Fiber Reinforced Plastics (CFRP), Composites			We've developed tools for milling large CFRP sheets with PCD ball nose endmills for defense and aerospace. In this application, the PCD mill is machining more than 3x the parts of the previous tooling.
Cast Iron, Hardened Steel			A Tier-1 Automotive company doubled tool life and lowered cost per hole by switching to West Ohio Tool and enhancing their custom tool design.
Ceramics, Graphite			Ceramics for semiconductors and supercomputers can be deemed impossible to machine. EDGEX4 PCD tooling has successfully drilled multiple holes when competitor tooling couldn't achieve a single hole.
Cobalt-Chromium, Inconel			In applications with Cobalt metals or Inconel, we tend to design custom Carbide tooling , sometimes CBN, depending on the application.
Copper, Brass, Bronze, Non-Ferrous Metals			In these applications, we recommend custom tooling that is made out of either Carbide or PCD .
Plastics, Reinforced Plastics			PCD tooling has performed 3x better in the milling of abrasive plastic/fiberglass composite for the Department of Defense.
Rubber, Elastomers			Custom tooling achieved a complex geometry for a sports equipment customer, drastically improving product functionality .
Stacked Materials			A European aerospace customer needed a cutting tool for stacked material including CFRP and copper mesh. The EDGEX4 drill provided quality, clean cutting at each layer.
Steel, Stainless Steels			A medical company experienced \$50,000 in savings by keeping quality tooling in stock and not relying on regrinds.
Titanium, Nick-Based Alloys			In these applications, we recommend custom tooling that is made out of either Carbide or PCD .
Tungsten			EDGEX4 outperformed competitor tooling by drilling 6.5" holes 33% faster .

TOOLING

Carbide PCD CBN

INDUSTRIES

Aerospace Automotive Aviation Consumer Defense Electronics Energy Healthcare HVAC Medical Oil and Gas Plumbing Recreation Semiconductors

Do you have an application or material not shown here?
 Reach out today to discuss your machining needs and we'll develop the right tool for you. Get your tooling right the first time with custom tools engineered for endurance.

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T O O L C O .

Email: customerservice@westohiotool.com
 Call: 937-842-6688
 Visit WestOhioTool.com to learn more.