

CAPABILITY STATEMENT

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Unparalleled Customer Service In Diamond Tooling

With more than 40 years in the diamond tooling business, Edge Technologies is unparalleled in its approach to customer service. Our extensive problem-solving skills coupled with our niche engineering expertise allow us to partner with you to create one-of-a-kind, effective custom tools.

We prioritize quality, reliability, and speed. Our unique approach to work/life flexibility allows us to get your tools to you much more quickly than typical industry turn-around time.

- ✓ **Unique diamond tooling expertise**
- ✓ **Top-notch collaboration and design**
- ✓ **Unmatched tool turnaround times**
- ✓ **Quality tools**

CAGE CODE

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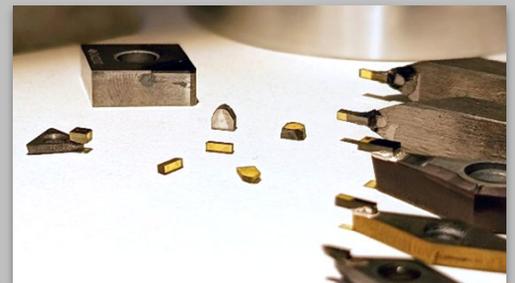
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NAICS CODES

811310 - Commercial and Industrial Machinery and Equipment Repair and Maintenance

333515 - Cutting Tool and Machine Tool Accessory Manufacturing

EXECUTIVE SUMMARY



Edge Technologies is a master in the diamond tooling industry. We design and manufacture custom diamond cutting tools for ultra-precision applications. We are uniquely agile in our ability to deliver custom tools quickly without compromising on quality.

Featured Clientele



A leading Fortune 10 innovator in large-scale data infrastructure, AI, and cloud computing



One of the world's premier engineering institutes, delivering the next generation of scientific innovation



Major U.S. defense contractors specializing in national security, advanced radar, missile systems, and aerospace technologies.



A trusted name in medical device manufacturing with a legacy in advancing optical and vision-related technologies.

Differentiators

- ✓ Founded in 1983 with over 40 years of legacy experience.
- ✓ 3rd generation family-owned small business
- ✓ All manufacturing performed in-house for full quality control.
- ✓ Fast turnaround and highly responsive customer support.
- ✓ Deep technical expertise in high-precision and regulated environments.
- ✓ Proven track record supporting aerospace, defense, and medical industries.

Core Competencies

Chamfers – Tooling improvement that allows for tooling technicians to program a simple tool path without compensation to produce the desired material surface.

Controlled Radius Tools – a standard 0.25 microns peak-to-valley but we also produce very low waviness tools measuring down to 50 nanometers.

Milling & Boring Tools – Our chemical process polishes the diamond edge without removing the diamond from the shank. This means less time, less money, and fewer steps for a resharpened tool.

Resharpener/Relapping/Raking – We offer rake resharpening and radius resharpening services for our own tools as well as other manufacturers' tools. Our proprietary resharpening process minimizes variables to and allows us to produce consistent results.

Chemical Diamond Processing – Chemical processing allows for diamond polishing without causing sub-surface damage.

Past Performance & Projects

- Developed polishing process for large (4" diameter) CVD diamond
- Designed and engineered half-radius tools for diffractive lens production
- Developed and proved process replicability for 1-2 μm radius across 160° arc with a noise roundness threshold of 30 nm
- Fabricated specialized diamond parts for space shuttle thruster valve assemblies
- Developed and achieved production of aspheric ball endmills
- Produced single ball endmills with 2 μm centration



Certifications



CMMC Level 1

