

We Provide Solutions!

Are you looking for a trusted partner to develop and build custom tools for challenging machining applications?



Specializing In

- **Aerospace**
- **Automotive**
- **Firearms**
- **General Machining**
- **Military/Defense**
- **Medical**
- **Plastic/PEEK**
- **Power Generation**
- **Motion Control**
- **Racing**



Serving our customers for 65 years.

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Buy Local, Buy , and get solutions - FAST!

Recall the days when you could find a vendor who not only met your needs but also understood your time constraints and guided you through the entire ordering process? Welcome to the true combined efforts of Core Cutter LLC and Lloyd Gage & Tool, where you will obtain rapid application solutions that make memories a reality.

As a powerful combination, both of our companies strive to be the best at not only starting with a complete discovery process of what you need, but to follow-through with everything we say we'll do. We refer to it as "saying what we do and doing what we say," which guarantees accountability from top to bottom!

Here's what you can expect while working with us!

1

Technical Support

We promise you will receive an appropriate tooling solution, leading tool design, cutting parameters, and continuous support throughout the process and in a timely manner.

2

Customer Service

Our customer service team is not only our greatest asset but also one of our strongest foundations. An exceptional customer experience is our top priority, and we will be guiding you all along the way; we guarantee it!

3

Increased Productivity

Our typical customer achieves a 35% reduction in CPU use by decreasing cycle times, minimizing waste, and achieving longer tool life with improved quality and consistent tooling. This also increases the available machine time, allowing for a higher throughput to handle more operations.

Honesty Vision
Ethics Integrity



Easy as 1-2-3

Kindly indicate or underline the key elements that we should be focusing on; a more precise understanding of your objectives facilitates a lot faster design process.





We're Your Core Cutter Distributor

Being a family-run business, our goal as an industrial distributor is to provide each customer with outstanding value. We prioritize our clients, ensuring that any action we take to enhance their financial performance will yield favorable returns and foster a successful business relationship in the future. Our team has over 200+ years of industry experience under their belts, willing and able to find answers, make choices, and meet deadlines.

We are certain that, after 65 years in business, we can provide every one of our customers with excellent service and support. We appreciate every one of our clients as we couldn't operate in this industry without them.



The following are three of our top value-added efficiencies that drive our business every day!



Personalized Customer Service & Satisfaction



Cost Analysis and Documented Efficiencies



Being a customer's partner, not just a supplier

You might ask what sets us apart?

- We're old-fashioned; our team is always ready and eager to answer your call—no automated chatbots or voicemails here!
- We value and acknowledge every inquiry, as well as approach each transaction with enthusiasm and dedication.
- We stock local inventory to support our customers, and we believe in it.
- Strategic blanket ordering solutions are one of our specialties; ask us for more details.
- We promise to treat you like family and “actually do what we say we're going to do”—our value-added promise!



We have hand picked this Manufacturer

Mr. James Graham started Core Cutter, LLC, in 2016, and he is both the owner and operator. The company's approach stresses client expectations while still offering high-quality products at reasonable costs. He formed a team of highly trained cutting tool professionals with the goal of developing and maintaining this effective corporate strategy. We adhere to high quality standards, handling every tool with the same attention as if it were our first.



"We look forward to being of service to you and your team"
James Graham, President/Owner

Our Services

New Tooling

Our company offers both customized and standard high-performance solid carbide rotating tools, known for their exceptional New England quality.

Modified Tooling

Many times your application requires a feature on the tool that we don't offer but close to a standard tool. In many cases we can alter the standard tool to keep your cost & delivery time as low as possible.

Reconditioning

No matter the brand or style, we can recondition your old solid carbide tools. The quantity of the precise tooling that is sent in determines the cost, and our minimum diameter is 1/4".

Application Assistance

Proper application of our tooling is key, we have your back here. We enjoy properly applying our tooling, including speeds and feeds and cutting strategies to help you optimize your cycle time.

Our Capabilities

Cutting Diameter Envelope

- Standard H.P. Tooling .0625 - to - 1.0"
- Custom-Made Tooling .0625 - to - 3.0"

Quotations & Prints

- Quickly supplied within 24-48 hrs.
- Tool prints supplied with all quotes

Swift Delivery Times*

- 10-12 Working Days for Uncoated
- 15-17 Working Days for Coated

* Dependant upon the complexity of the tool design and if a special blank is required.

Premium Carbide Blanks

- We only utilize excellent sub-micrograin carbide. Of course, we pay more for them, but they provide the stability, performance, and reliability you need as a user.

Edge Prep

- Edge preparation provides some level of protection for all of our tools. This ensures exceptional performance, durability, and consistency of our tools.

Tool Coatings

- The market's top coating providers design and apply our tool coatings. One way to think about it is that we're leveraging their extensive surface treatment expertise for all of our products.

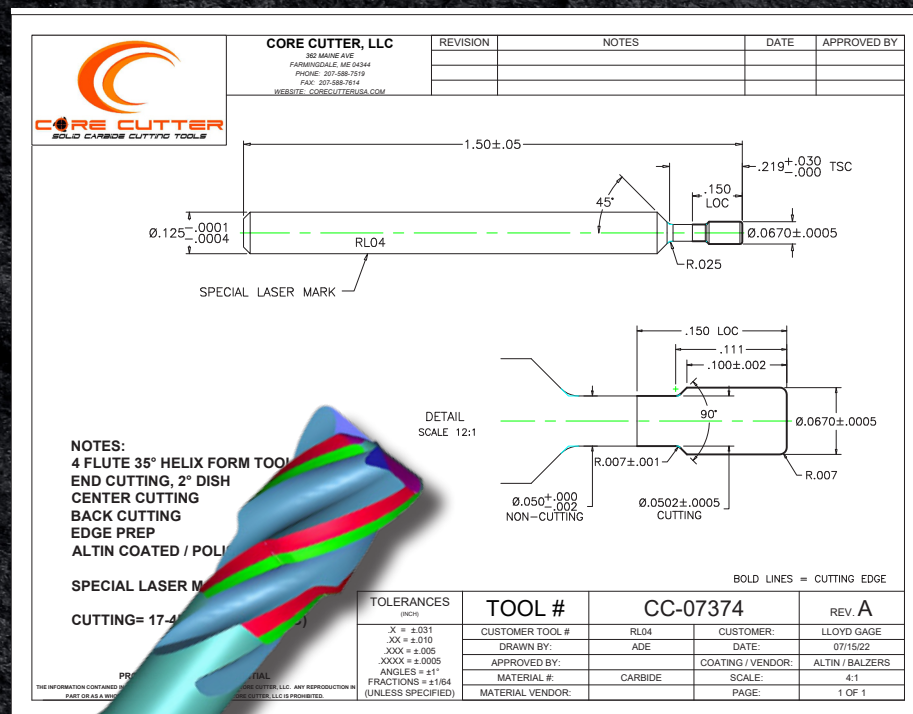
Aerospace

As a major supplier to the aerospace industry, we have extensive knowledge and expertise in machining the challenging materials used in aircraft construction, as well as the strict and exact tolerances that must be adhered to. We have dealt with some of the most difficult aerospace applications, and we can assist you with titanium, aluminum, or inconel machining issues.

Here's a great example of how we helped a local Ohio customer in this industry!

Customer Need

The client's goals and needs for this application were to extend tool life and improve surface quality.



Core Cutter's 3D Tool Design & Simulation

"Core Cutter changed the design of existing special per our application. Tools lasted 3 times longer and SF was incredible. 3 week delivery was huge. Only thing we had to do was send a part print."

- Large Aerospace Manufacturer, Cleveland, OH

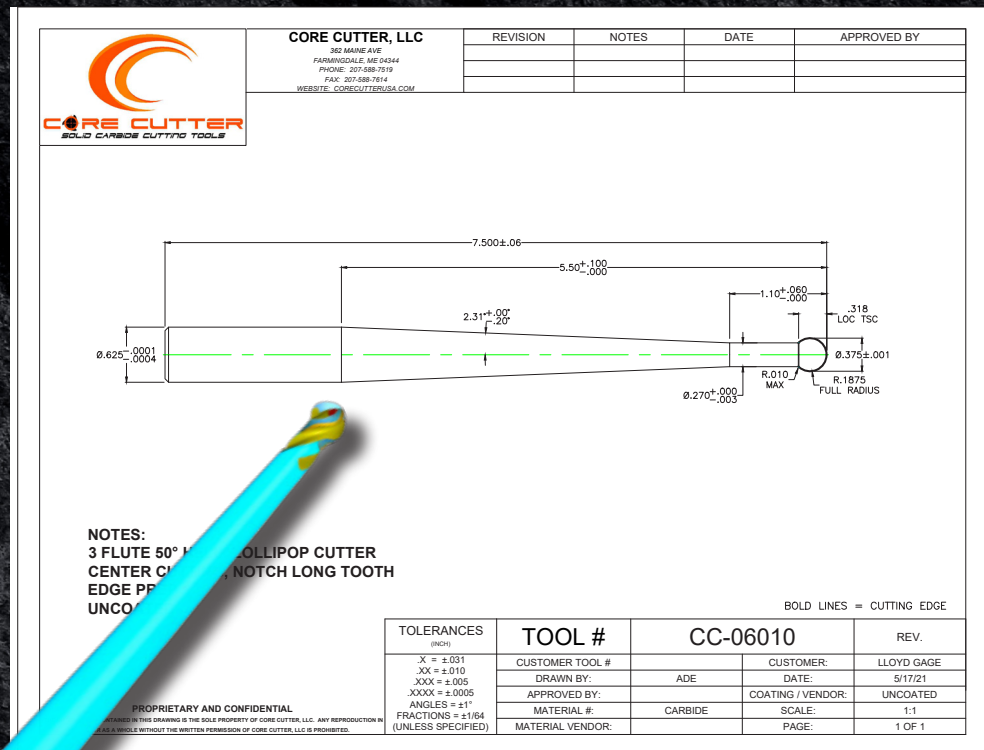
Automotive

Reliability is extremely important in automotive manufacturing where margins are tight and consistent performance is a necessity. Core Cutter offers consistent quality and reliable lead times. At Lloyd Gage & Tool blanket purchases are welcome, we can stock an extra release locally in case tools get consumed more quickly due to operator or machine errors.

We work in close collaboration with our clients to help them determine tool life and project needs. This approach can be critical in ensuring timely production and preventing the exceeding of tool budgets.

Customer Need

"We use a long lollipop cutters to mill out cylinder heads. We were using a manufacturer suggested to us by the machine tool builder but they struggled to keep up with our demand and ship the tools on time."



Core Cutter's 3D Tool Design & Simulation

"We shipped a few of our tools to Core and they reverse-engineered the design. They are able to ship in 2-3 weeks helping us not to worry about running out or carrying excessive stock. They were also a little less expensive."

- Automotive Manufacturer, Toledo, OH



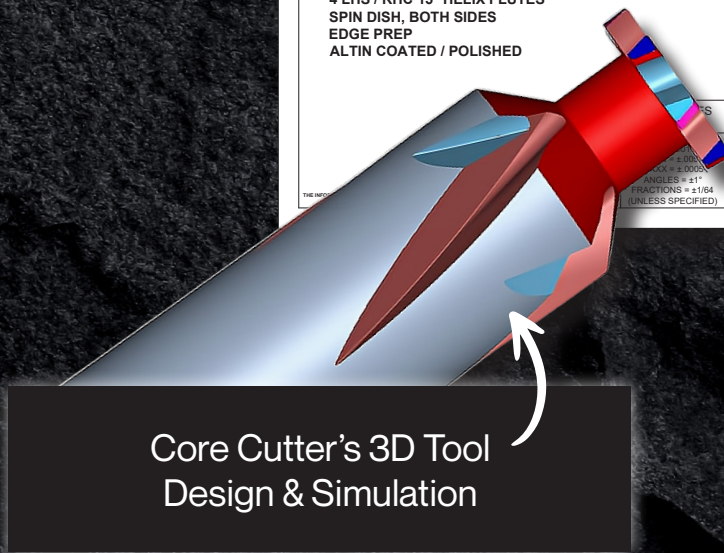
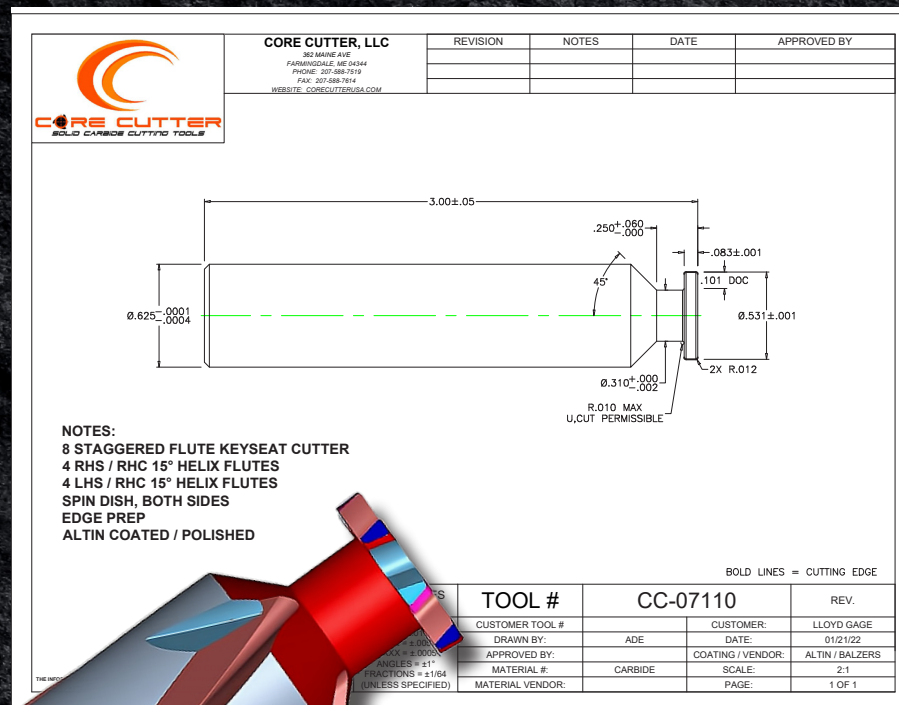
Firearms

For many years, firearm manufacturing has been a staple in the United States. Whether you are manufacturing AR15 assault guns, handguns, or hunting rifles, we have experience with special tooling (E.g., key seat cutters, dovetail cutters, form tools, step drills, chamber reamers, etc.) that can accommodate such manufacturing.

The tool shown below exemplifies our successful assistance to a customer in Ohio.

Customer Need

The client was experiencing issues with the Specialty Key-seat application and required assistance with optimization.



"Quote and Print sent same day, awesome design and high-quality tools saved us tens of thousands of dollars, tool life was unreal."

- Firearms Manufacturer, Brookpark, OH

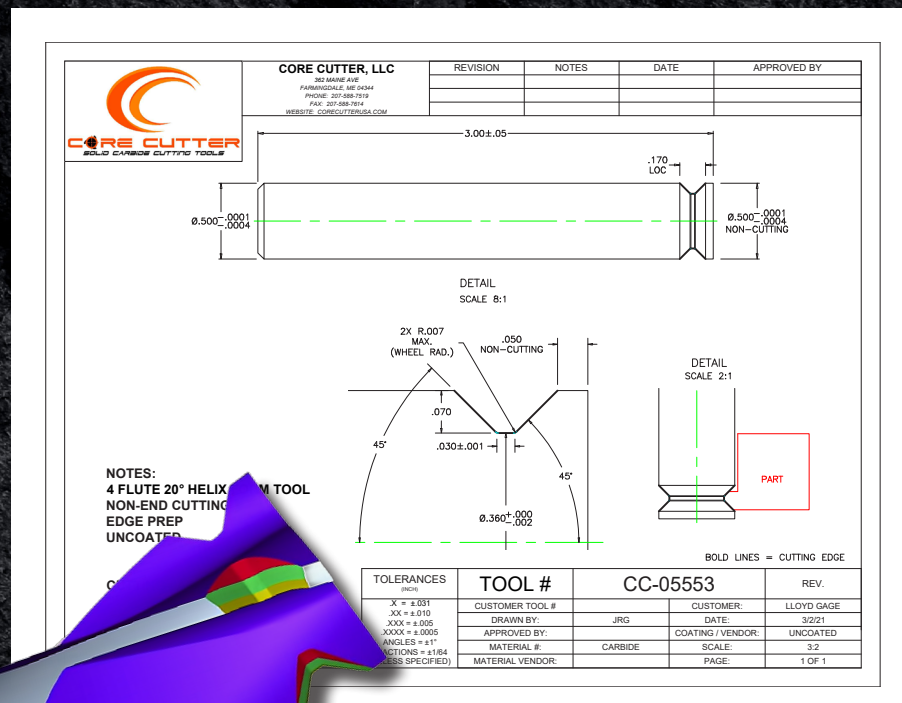
General Machining

Speed kills! Or lack thereof can kill a job and reputation of a job shop. Sometimes an odd tool is needed quickly to ensure delivery of necessary items for industry. We can provide form tools, step drills, special end mills and much more in days if needed. Our standard lead times remain half or less than industry standards.

The tool your looking at below was a quick 10-12 day working day turnaround for the customer!

Customer Need

"We needed a form tool FAST! There was no easy way we would have been able to cut this form without a custom tool."



Core Cutter's 3D Tool Design & Simulation



"We got a quote within a business day and took delivery of the tools within 2 weeks. Core & Lloyd Gage really saved us on this one with top-notch customer service and a quality tool that cut down on 2-3 tools being needed."

- Job Shop, Fremont, OH

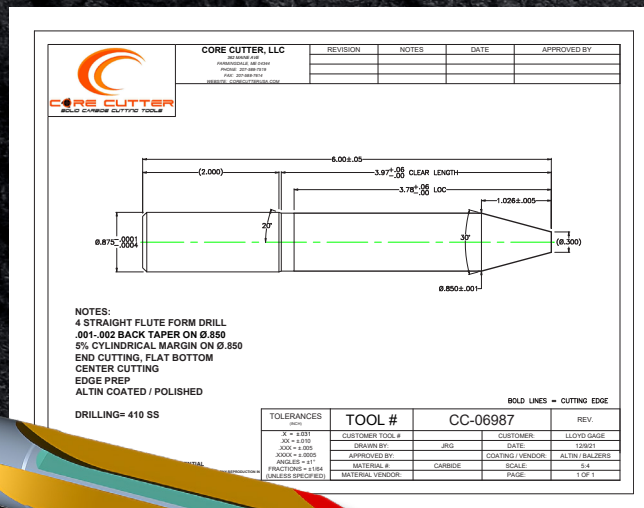
Military/Defense

Defense spending is on the rise, however, the realization of keeping costs and budgeting contained is a real world situation. For our customers making Military/Defense parts we strive to help them reduce their “cost per part” by looking at different machining strategies, combine tooling and lowering scrap costs.

Here are some excellent cases of how we assisted some local Ohio military/defense clients.

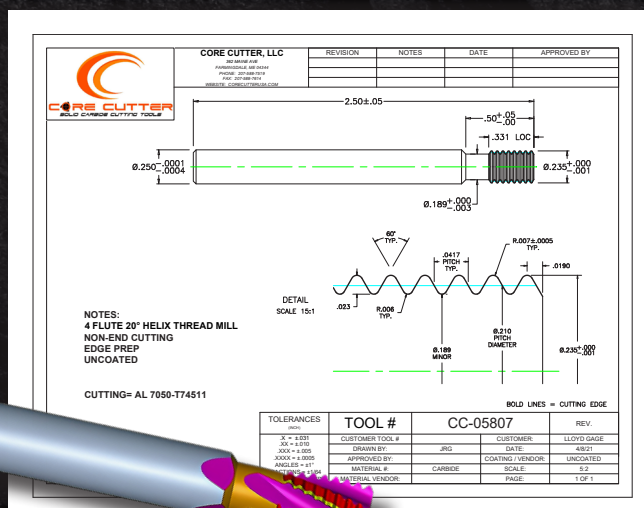
Customer Need

In order to drill a deep hole into a component and achieve a precise angle, the client required a customized solution.



3D Tool Design & Simulation

“Core Cutter hit the tolerance and the parts came out great, special made tools with a great lead time and tool life”
- Military/Defense Manufacturer, Solon, OH



3D Tool Design & Simulation

Customer Need

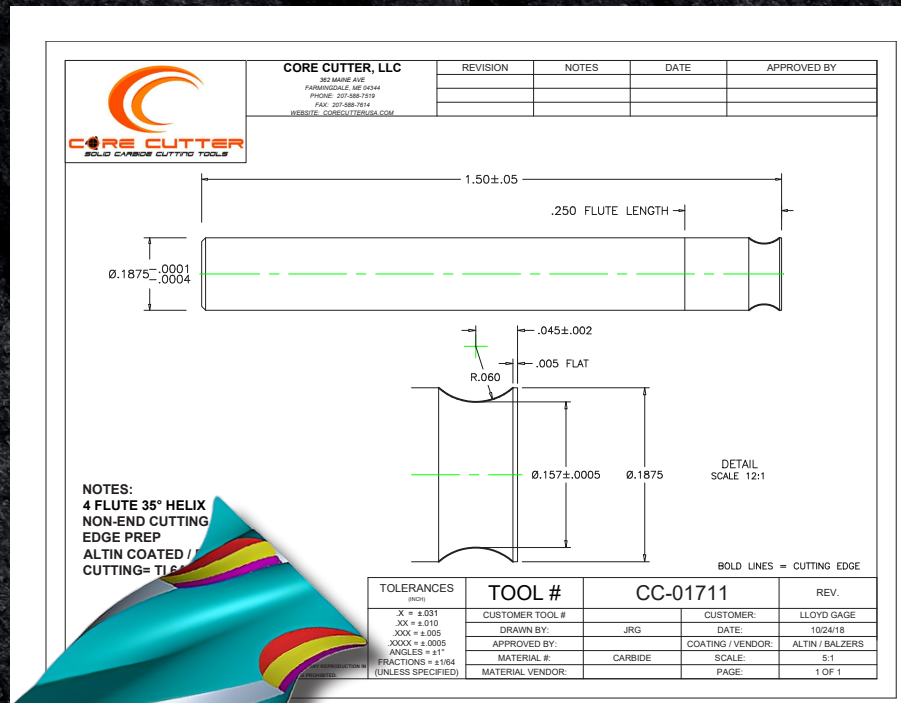
Specialized requirements for root radius and minor diameter were imposed by our client, who was experiencing excessive tool breakage from their previous tooling supplier.

Medical

The machining of medical parts has become much more demanding as of late, and thus has required some “out of the box” strategies. The materials have become much more difficult, the space is much more competitive and costs are being scrutinized regularly. We can help as we have the tools, designs, and application experience to help you reduce your “cost per part”. Here’s a great example of a solution we were able to provide!

Customer Need

Our customer needed a custom designed endmill for unique geometry in a medical application that involved cutting Titanium 6AL4V. It was relayed to us that the tool must have consistent tool life, run thousands of part per year and provide precision repeatability.



Core Cutter's 3D Tool Design & Simulation

“Lloyd Gage & Core Cutter hit a home run. Custom endmill with geometry exceeded our expectations. Competitively priced, with excellent tool life and consistency.”

- Medical Manufacturer, Brookpark, OH

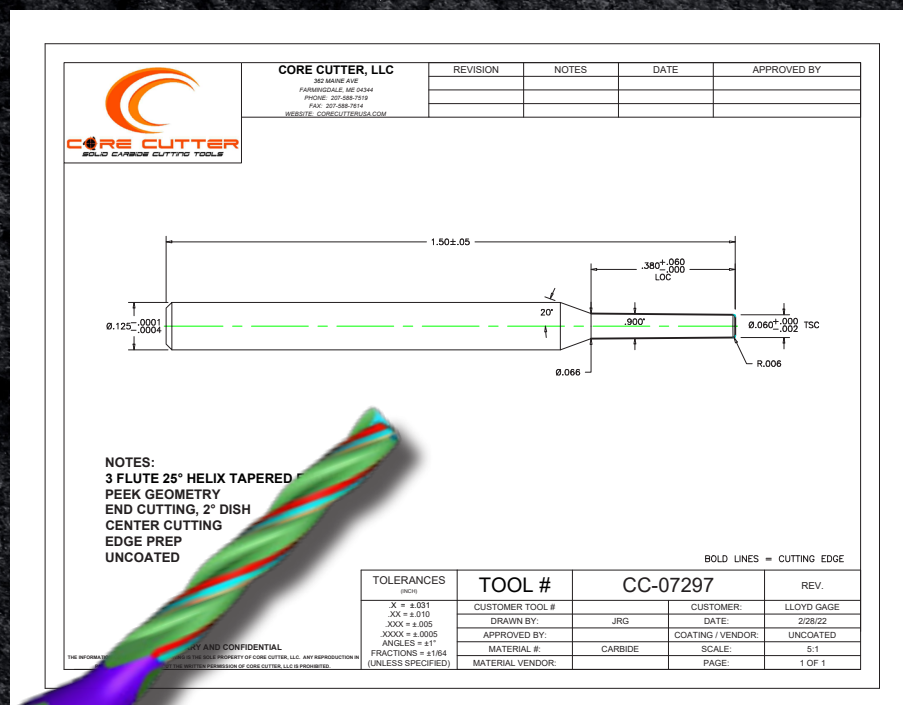
Peek / Plastic

This area of the CNC machining business has grown exponentially, and we are making tools for it now! Whether your machining Delrin, Polycarbonate, PEEK, PTFE etc... we can help. All PEEK grades are much more abrasive on tooling than softer plastics like nylon and acetal plastics. These materials all have different characteristics, but our designs & speed/feed will accommodate the particular material your working with.

The tool below shows how we helped a client machine some of these intriguing materials.

Customer Need

A precision form tool designed specifically for consistently producing tightly toleranced features in PEEK plastic.



Core Cutter's 3D Tool Design & Simulation

"Form tools made it easier to cut complex features while maintaining accuracy and repeatability. The fact that we are still using the same tool after hundreds of pieces with little wear attests to the tool's long lifetime! Pat at Lloyd Gage sent us a quote and print in less than a day, and we appreciate the unparalleled service and assistance from Core Cutter and Lloyd Gage."

- Swiss Medical Manufacturer, Cleveland, OH

Power Generation

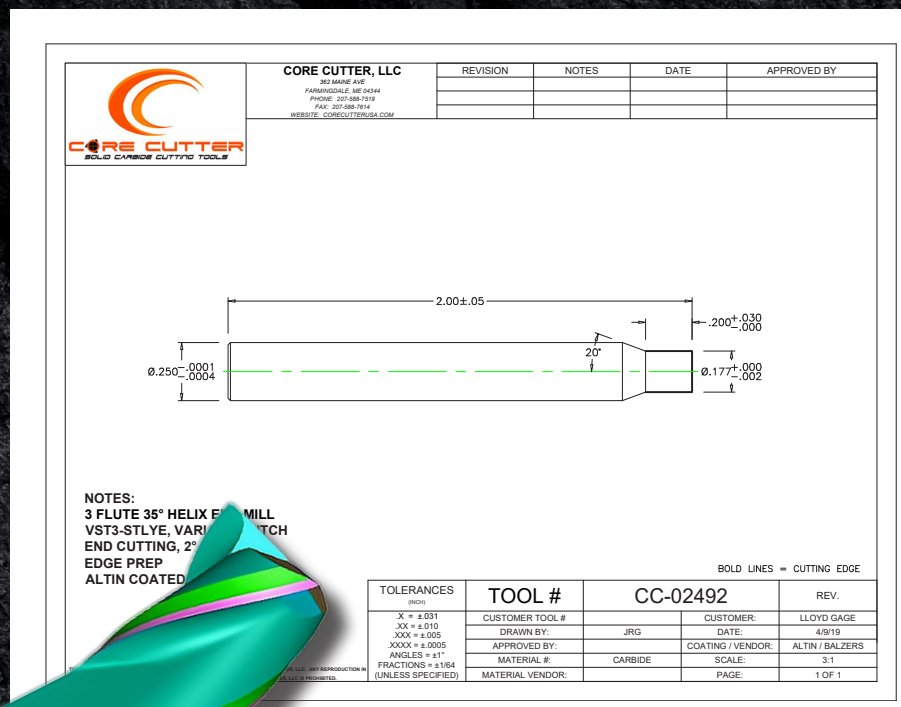
*Incredible 10-to-1
tool life results!*

For certain tasks, standard tools may not always be accessible or effective. When faced with such a situation, our ability to think creatively and utilize our extensive knowledge enables us to design and implement customized tools as required.

This case study serves as an excellent illustration of how our client required a customized solution in lieu of a standard tool.

Customer Need

"We were breaking a lot of standard 4.5mm end mills trying to cut a full slot .177" wide. When we tried a smaller end mill we still had tool breakage and it required multiple passes of roughing then finishing. We needed a tool that could cut the full width of the slot and not blow up."



Core Cutter's 3D Tool
Design & Simulation



"Lloyd Gage & Tool with Core Cutter came up with a .177" wide 3 flute endmill with a stub flute and an oversized 1/4" shank. This tool lasted 10 to 1 from our previous option. This saved time and money by helping us avoid scrapping parts, and changing tools frequently."

- Power Generation Manufacturer, Columbus, OH

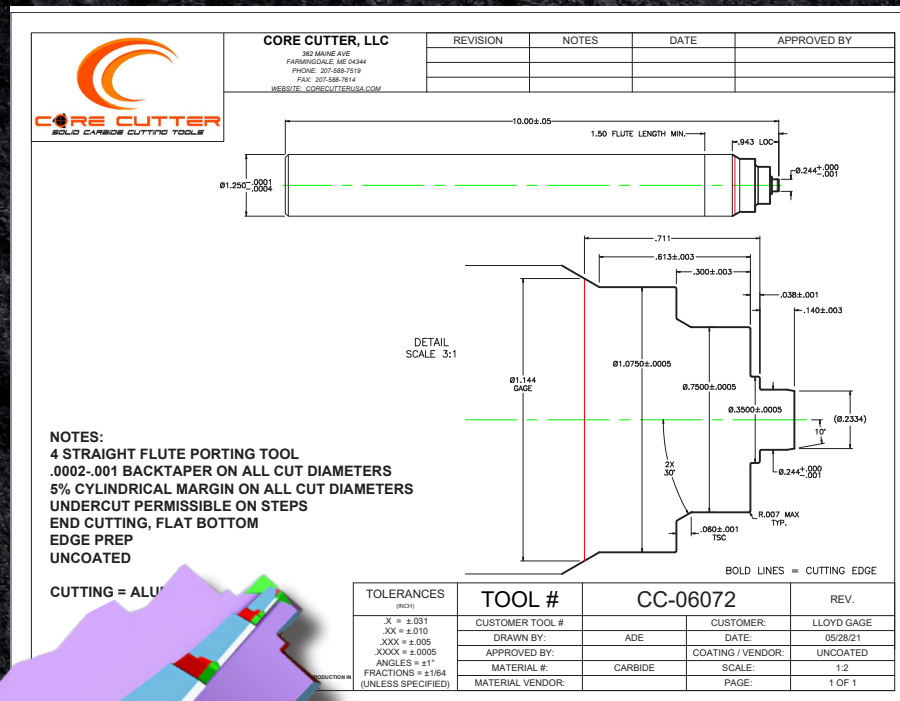
Fittings/Motion Control

We see this market requiring some very intricate tooling, which we have experience with. Whether it demands a coolant-fed stepped porting tool, step drill or a multi-stepped form tool we can help with this area. Materials are not always the most demanding, but the cavities, holes & control ports have some of the most stringent tolerances and finish requirements.

Here's a fantastic custom solution we helped with, combining many features into one and, most importantly, keeping them all concentric for a close tolerance solution.

Customer Need

This customer required a customized form tool to reliably create precise features with close tolerances and maintain concentricity across different diameters.



Core Cutter's 3D Tool Design & Simulation

"The form tool provided excellent repeatability, reduced the challenges of machining difficult features, and was much more cost-effective than alternative methods."

- Brass Fittings Manufacturer, Sandusky, OH



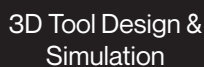
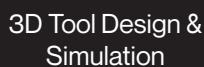
In addition, by combining tools, we may immediately save money by providing shorter production times and better performance while also decreasing the overall cost of tools.

“We needed a thick key seat cutter to prevent aluminum buildup during the milling of a groove inside the bore.” Standard tools were prone to jamming and breaking.



the ideal geometry for aluminum." - Racing Turbo Manufacturer, Ann Arbor, MI

We were having difficulty milling a deep, narrow slot for an oil drain in a bearing housing intended for a turbo. The slot was 1/4" wide and over 3" deep. Tool life and breakage were constant battles.



Tooling for racing manufacturers usually involves extremes. Every day, extra-long end mills and drills with small diameters are needed to connect ports and oil holes. The parts require extensive material removal, and readily available off-the-shelf tooling is scarce.

Please give us a call; we are here to listen, educate, and provide a solution that will exceed your expectations.



Maintaining two locations to serve our customers

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