



Precision Machining  
You Can Trust

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Welcome to Liberty Precision, where our commitment to quality and precision machining sets us apart from other machine shops. With over 450 years of combined experience, our team brings unmatched expertise to every project.

Our mission is simple: to consistently exceed customer expectations by delivering high-quality, on-time products. As an **ISO 9001:2015** and **AS9100D certified** machine shop, we adhere to the highest standards in the industry. Looking ahead, our vision is to empower our customers to tackle the toughest challenges in aerospace, defense, oil & gas, nuclear, and beyond.

## OUR STRENGTHS

Choosing Liberty Precision means partnering with a leader in the machining industry. Here's why:

### Precision Manufacturing

We produce an average of 12,000 parts per year, meeting diverse needs with efficiency.

### Reliable Output

Our 99% on-time delivery rate guarantees your projects stay on schedule.

### Superior Quality

With an average scrap rate of less than 0.012%, you can count on us for precision and reliability.

### Cutting-Edge Facility

Our 22,000-square-foot facility features the latest CNC technology and inspection capabilities for the most complex jobs.

Join us at Liberty Precision, where quality, reliability, and expertise come together to drive your success.



# OUR INDUSTRY EXPERIENCE

At Liberty Precision, we serve a diverse range of industries, leveraging our expertise to meet each sector's unique challenges and requirements.

## Aerospace

In aerospace, we deliver high-caliber components that meet stringent standards, helping clients reach new heights, including space.

- Turbine blades
- Landing gear components
- Aircraft structural parts
- Engine components
- Control surfaces
- Spacecraft parts
- Instrumentation housings
- Launchpad components

## Nuclear

Our team crafts reactor components and prime power parts for ships and submarines, meeting the exacting standards of nuclear applications.

- Reactor vessel components
- Fuel handling equipment
- Control rod components
- Steam generator parts
- Heat exchanger components
- Shielding components
- Prime power system parts

## Defense

Our components for the defense industry meet mil-spec standards and withstand rigorous demands, ensuring the safety and effectiveness of our armed forces.

- Weapon system components
- Gun track systems
- Vehicle armor parts
- Radar and communication housings
- Engine and transmission parts
- Military-grade fasteners

## Oil & Gas

Using advanced CNC technology, we supply high-quality parts for drilling, deep water, and refining, keeping oil and gas operations efficient and productive.

- Drill bit components
- Valve bodies and components
- Pump components
- Pipe fittings and flanges
- Downhole tools
- Compressor parts
- Refinery equipment parts



# OUR MACHINING CAPABILITIES



## CNC Precision Turning LATHE MACHINE CENTER

Our advanced 2- and 3-axis lathe machines handle parts from 1" to 78" OD and up to 240" in length, providing precise and efficient turning operations for various sizes and specifications.

### Scan Me

To view the complete list of lathe machines, scan the QR code.



## CNC Precision Milling MILLING MACHINE CENTER

Our 4-, 5-, and 6-axis CNC centers, including Horizontal Boring and Vertical Turning Machines, provide versatile milling for complex, heavy-duty parts up to 71" x 79" and 150" long.

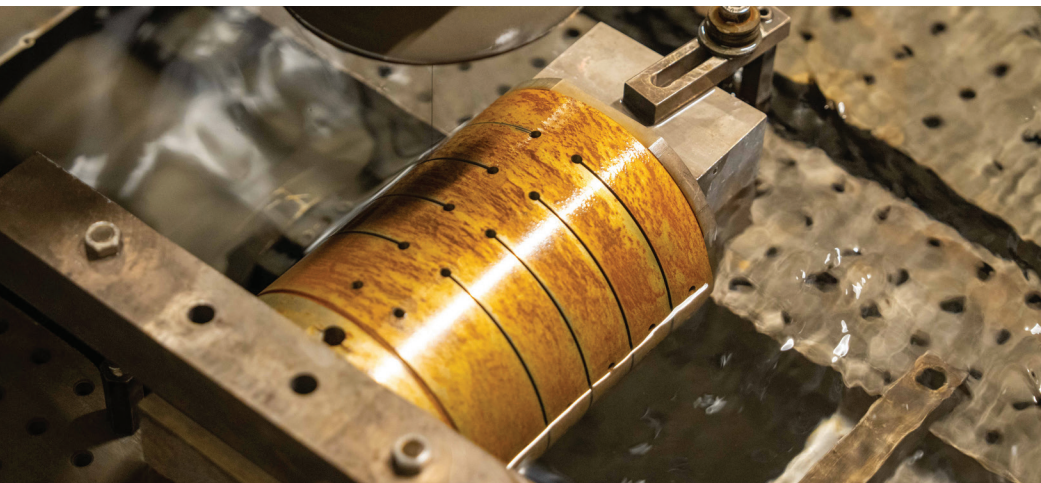
### Scan Me

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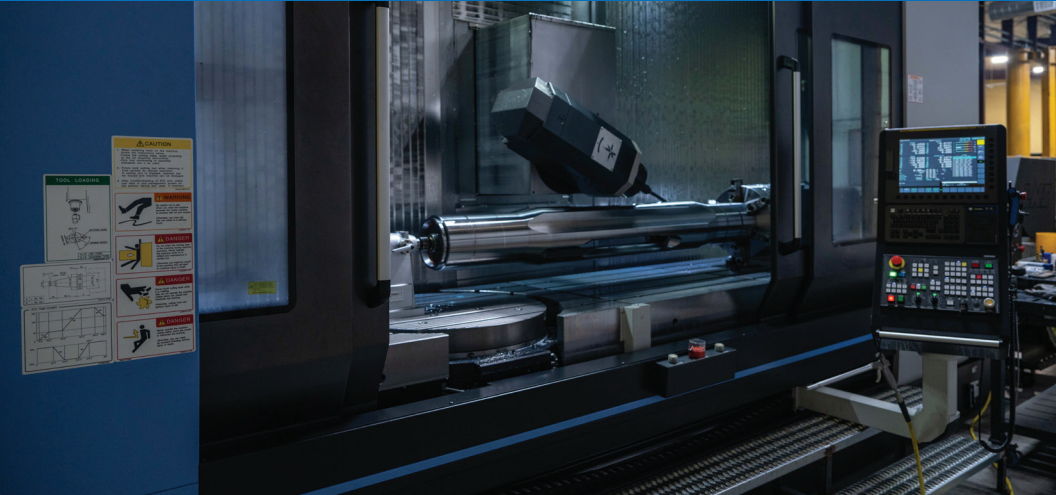


## Wire EDM ELECTRICAL DISCHARGE MACHINE

Our wire EDM capabilities offer precise cutting for complex geometries and fine details on parts up to 41" LG x 31" W x 16" H, ideal for high-precision applications.



# OUR COMPREHENSIVE SERVICES



At Liberty Precision, we offer a comprehensive range of services designed to meet your metalworking needs, including Prototype Precision Machining, Deburring and Grinding, and Assembly with Non-Destructive Examination (NDE) capabilities.

## PROTOTYPE PRECISION MACHINING

Our prototype machine center specializes in small lot prototyping and short-run production, offering expedited services and R&D support tailored to your needs.

## DEBURRING AND GRINDING SERVICES

Our precision surface finishing center uses advanced grinding and deburring machines to achieve superior finishes and remove burrs, enhancing the quality and safety of your metalworking projects.



## ASSEMBLY SERVICES

Our assembly solutions center meticulously handles component preparation, sub-assembly, final assembly, and rigorous testing, delivering high-quality, reliable products.

# OUR PRECISION PROCESS



At Liberty Precision, we take pride in our streamlined and efficient process, designed to deliver top-quality machined parts on time, every time. Here's how:

## 01. Order Confirmation

We provide a detailed quote within 24-48 hours of your request and quickly confirm your purchase order to start immediately.

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## 02. Material Sourcing

We source high-quality raw materials and coordinate specialized services with trusted, NATO-sanctioned partners, complying with all regulatory purchasing requirements.

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## 03. CNC Programming

Our skilled programmers craft CNC programs from your 3D model, meticulously following your specifications.

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## 04. Production Setup

We assign your job to the best-suited machine based on size and complexity, carefully planning the setup for maximum efficiency.



Experience the Liberty Precision difference—where quality, reliability, and expertise come together to meet all your machining needs.

## 05. Parts Run

Once setup is complete, we begin production with ongoing dimensional checks and on-floor inspectors addressing any issues promptly.

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## 06. In-Process Inspections

Quality control begins with a first article, followed by thorough in-process inspections using the latest CMM technology and laser scanning to check every dimension.

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## 07. Final Inspection

We use advanced technology for precise measurements, perform deburring and grinding, and prepare detailed documentation, including inspection reports.

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## 08. Packaging & Shipping

In the final step, we carefully prepare your parts for shipment, handle logistics, and coordinate delivery or pickup.



Ready to get started?  
Request a quote today!



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