



Unlocking the **Science** of Manufacturing™



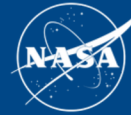
Ca
Capabilities

The icon depicts a blue clock face with hands, positioned next to a gear. A wrench is shown as if it is adjusting or working on the clock mechanism.

Se
Services

The icon shows a blue hand holding a gear. A wrench is positioned as if it is working on the gear.

OUR VALUED CUSTOMERS



WHAT MAKES US DIFFERENT

Built for Precision and Partnership

The KMM Boutique CMO™ Advantage is our way of combining precision, communication, and follow-through. This means every project benefits from cross-functional collaboration, real-time problem-solving, and a structure that scales as your needs grow. Machining, grinding, engineering, cleanroom, assembly, and inspection all work together under one roof, supported by experienced teams who understand how to reduce risk and move complex programs forward. KMM Group combines personalized attention with a shared commitment to getting it right. Because the details you depend on deserve it.

Our Most Successful Partnerships

Our ideal partners are engaged and passionate. They understand the value that unparalleled expertise and the highest quality standards embody. They appreciate our prioritization of seamless communication, ensuring a smooth partnership experience.

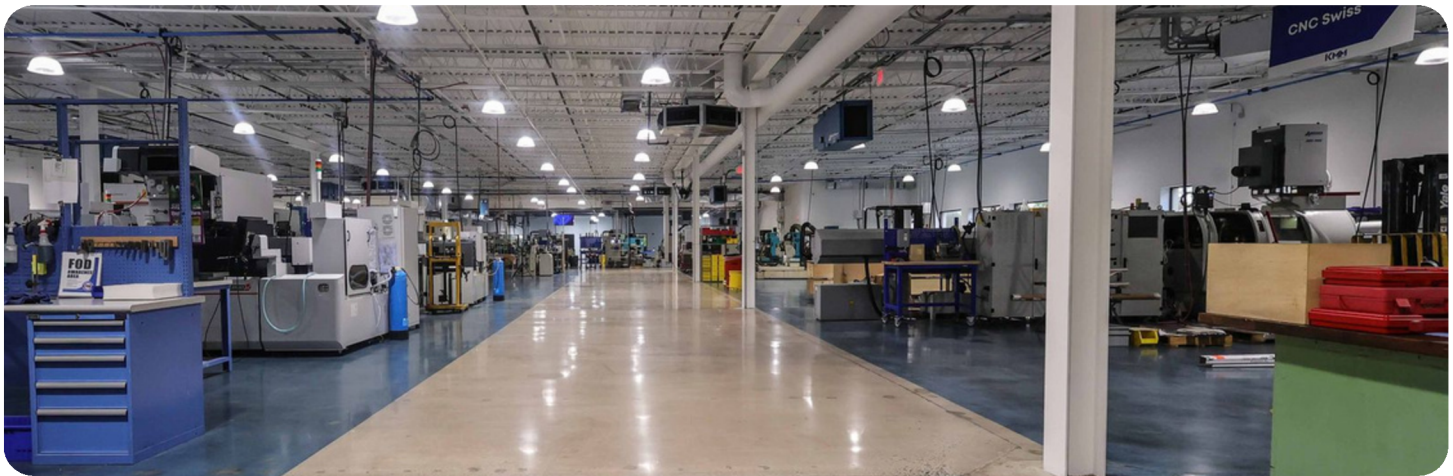
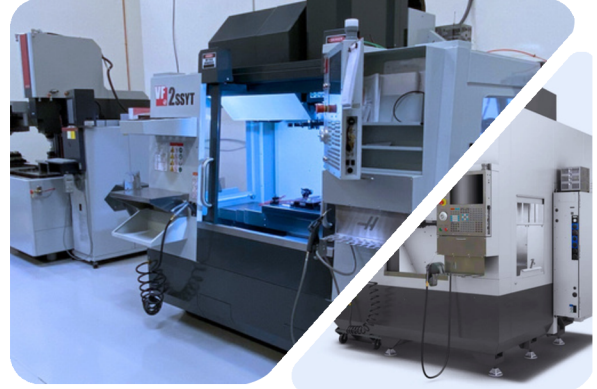
Step into our state-of-the-art facility, where innovation and collaboration across multiple disciplines and industries unite with a single purpose – Unlocking the Science of Manufacturing™.



Ultra-Precision Machining Expertise

We offer a full range of machining services to tackle even the most intricate and demanding tasks in manufacturing. With our diverse expertise, decades of experience, and advanced technologies, there's almost nothing we can't handle.

- Multi-Axis Machining (Milling)
- CNC Turning
- Wire EDM
- Ram EDM
- Swiss Screw Machining (up to 13-axis)
- Micro-Machining

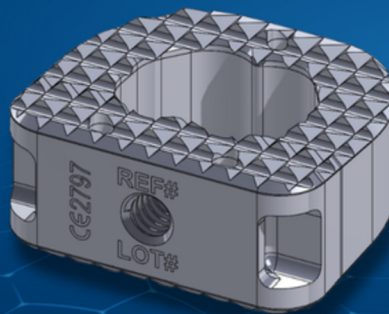


Multi-Axis Machining (Milling)

- Envelope up to 40" x 20" x 20"
- 3-, 4-, and 5-axis milling
- Specialists in working with medical and aircraft alloys
- Tolerances to .0001" (2.5 μ)
- Finishes to < 8 Ra

VERTICAL MACHINING (MILLING)

ULTRA-PRECISION MACHINING



Envelope up to 40" x 20" x 20"



.0001" tolerances



8 Ra finishes



3-, 4-, and 5-axis milling



Medical and aircraft alloys

CNC TURNING

ULTRA-PRECISION MACHINING



3.15" (80mm) bar capacity, 31" between centers



.0002" tolerances



8 Ra finishes



11-axis capability



Experience with over 60 materials



Gear Hobbing

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CNC Turning

- **Bar Capacity:** Up to 3 1/8" inches (80 mm) diameter enabling automation.
- **Dimensional Tolerance:** ±0.0002 inches (±0.005 mm)
- **Surface Finish:** Finishes to 8 Ra
- In-process gear hobbing (straight involute gears only)
- Live milling capability – ability to make square features and holes in one machine
- Dual spindles which increase productivity
- Y-axis capability adds to the control while doing live milling

Wire EDM

- Envelope up to 41.3" x 31.5" x 11.86"
- Ultra-Precision Wire EDM Tolerances <.0001" (2.54 μ)
- Finishes to 4 Ra
- B Axis (Rotary) for 6-axis 'Turn and Burn'
- Robotic Load/Unload for High Volume applications
- Wire diameter (min ≥ .002" 50 μ Ø)

WIRE EDM

ULTRA-PRECISION MACHINING



Envelope up to 41.3" x 31.5" x 11.86"



Ultra-precision wire EDM tolerances <.0001"



Finishes to 4 Ra



Robotic load/unload for high volume applications



B-axis (Rotary) for 6-axis 'Turn and Burn'

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RAM EDM

ULTRA-PRECISION MACHINING



Hex, Torx, Clover,
and other socket
features for
surgical devices
and implants



Fine finish
performance to
4 Ra



0.0002"
tolerance
capability



Thin wall/deep
cavity
applications



EDM
drilling

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Ram EDM

- Fine Finish Performance to 4 Ra
- 0.0002" (5 μ) tolerance Capability
- Thin Wall/Deep Cavity applications
- EDM Drilling capabilities
- Multiple socket feature configurations for high-precision parts
- Dedicated electrode machining (custom tooling and fixtures in-house)

Swiss Screw Machining (up to 13-axis)

- Up to 38mm through the spindle
- Up to 13 axes
- 5-axis milling capabilities
- Tolerances to .0002" (5 μ)
- Specialists in working with medical and aircraft alloys
- Low volume to high production (50 to 500,000 pieces)
- Live tooling and milling capabilities
- Ability to run non-round bars for design versatility

SWISS SCREW MACHINING

ULTRA-PRECISION MACHINING



Up to 32mm
through the
spindle



Tolerances
to .0002"
(5 microns)



Low- to high-
volume production
(50 to 500,000
parts)



Up to 13 axes



Specialists in
working with
medical and
aircraft alloys

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MICRO-MACHINING

ULTRA-PRECISION MACHINING



Extremely small,
intricate
components



Possible in most
machining
disciplines, including
Swiss, milling, & EDM



Features as
small as .002"



Tolerances to
microns

Micro-Machining

- Complex geometries and tight tolerances (to microns)
- Features as small as .002" (50 μ)
- Enhanced surface finish for minimal friction
- High-precision repeatability
- Possible in most machining disciplines

Ultra-Precision Grinding Expertise

Our ultra-precision grinding perfectly complements our expert machining capabilities. With every project, we consistently achieve sub-micron tolerances on diameters, complex geometries, and intricate features that were once considered unattainable. This synergy of precision and skill ensures that we not only meet but exceed the most demanding specifications.

- Guidewire/Corewire
- Ultra-Precision Centerless
- Multi-Axis CNC OD/ID Grinding
- Hybrid CNC Centerless
- Surface Grinding
- Micro-Grinding



Guidewire/Corewire Grinding

- Diameter tolerances to $\pm .0001''$ (2.5μ)
- Ground length tolerances to $\pm .005''$ (127μ)
- Wire lengths to 15 ft+ (4.6 m)
- Steps, tapers, ball ends, back tapers, tight corner radii, paddles, flats, etc.
- Bio-compatible materials, including Stainless Steel (SST) & Nitinol (NiTi)
- Producing wires and stylets for devices used in interventional cardiology & neuromodulation



GUIDEWIRE & COREWIRE GRINDING
ULTRA-PRECISION GRINDING

-  Diameter tolerances to $\pm .0001''$
-  Ground length tolerances to $\pm .005''$
-  Wire lengths to 15 ft+ Long grind lengths up to 48" (1200mm) in ongoing production.
-  Steps, tapers, ball ends, back tapers, tight corner radii, paddles, flats, etc.
-  Range of materials, including SST, NiTi, MP35N, precious metals, and additional "exotic alloys," like Inconel, and Hastelloy

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PRECISION CENTERLESS GRINDING

ULTRA-PRECISION GRINDING



-  Diameter tolerances to $\pm .0001''$
-  Lengths to 14 ft (4.267m)
-  Finishes to 2 Ra (.05 micron)
-  All materials, including glass, M2, Tungsten, Titanium, and Nitinol, etc.



Precision Centerless Grinding

- Diameter capacities
 - Thrufeed: $.005''$ (.127mm) to $2.50''$ (63.5mm)
 - Infeed: as small as $.014''$ (.355mm)
- Lengths to 20 ft (4.267m) ** (20 ft length limited to bars $\leq .75''$ (19mm) diameter)
- Standard tolerances to $\pm .0001''$ (2.5μ)
- Ultra-precision tolerances to $\pm .00002''$ ($.5 \mu$)
- Precision bars ground for Swiss-screw machines with tolerances to $\pm .0001''$
- Finishes to $< 2 Ra$ ($.05 \mu$)
- All materials, including glass, M2, Tungsten, Titanium, and Nitinol, etc.

MULTI-AXIS CNC OD/ID GRINDING

ULTRA-PRECISION GRINDING



Multiple part features in one chucking



Diameter range:
OD - to 14"
ID - to 7"



Length range:
OD - to 40" Long
ID - to 7" Deep



Diameter tolerances to
+/- .00005"
(1.2 micron)



Finishes to 2 Ra
(.05 micron)



Eccentric and Non-Round grinding – shapes and non-round features generated by interpolation of the grinding wheel



Multi-Axis CNC OD/ID Grinding

- Multiple part features in one chucking
- Eccentric and Non-Round grinding – shapes and non-round features generated by interpolation of the grinding wheel
- Diameter range: OD to 14", ID to 7"
- Length range: OD to 40" Long, ID to 7" Deep
- Diameter tolerances to +/- .00005" (1.2 μ)
- Finishes to 2 Ra (.05 μ)
- Wide range of materials

Hybrid CNC Centerless

- CNC OD and CNC ID Grinding
- Super-thin (.001") wall thickness on OD/ID grinds without crushing the parts
- Diameter tolerances to +/- .00005" (1.2 μ)
- Diameter range: OD – .003" to 2.50", ID – .060" to 2"
- Intricate forms & Micro parts (ODs)
- Finishes to 2 Ra (.05 μ)
- All materials, including glass, M2, Tungsten, Titanium, and Nitinol.

HYBRID CNC CENTERLESS

ULTRA-PRECISION GRINDING



Diameter tolerances to +/- .00005"
(1.2 microns)



Diameter range:
OD - .003" to 2.50"
ID - .060" to 2"



Finishes to 2 Ra
(.05 micron)



All materials, including glass, M2, Tungsten, Titanium, and Nitinol



SURFACE GRINDING

ULTRA-PRECISION GRINDING



Tolerances to
+/- .001"



Finishes to 4 Ra



Wide range of materials
including Stainless Steel,
Inconel, Titanium,
Aluminum, and ceramics



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Surface Grinding

- Unmatched precision, tolerances to +/- .0001"
- Finishes to 4 Ra
- Flatness & Parallelism within +/- .0001" (25 μ)
- Intricate forms & Micro parts
- Wide range of materials including: Stainless Steel, Inconel, Titanium, Aluminum, and ceramics

Micro-Grinding

- Complex geometries and tight tolerances (to microns)
- Diameter tolerances to +/- .00005" (1.2 μ)
- Diameter range: OD - .003" to 2.50", ID - .060" to 2"
- lengths and diameters are controlled with exceptional precision
- High-precision repeatability
- Possible in Hybrid CNC Centerless & Guidewire Grinding

MICRO-GRINDING

ULTRA-PRECISION GRINDING



Diameter
tolerances to
+/- .00005"



Complex
geometries



Diameter range:
OD - .003" to 2.50"
ID - .060" to 2"



High-precision
repeatability



Possible in Hybrid
CNC Centerless &
Guidewire
grinding



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Expanded Support (In-House & Managed)

- Coatings
 - PTFE, Parylene, Hydrophilic, Anodizing
- Laser
 - Cutting, Marking, Welding
- Coiling
- Heat-Treating
- Electropolishing

Comprehensive Solutions

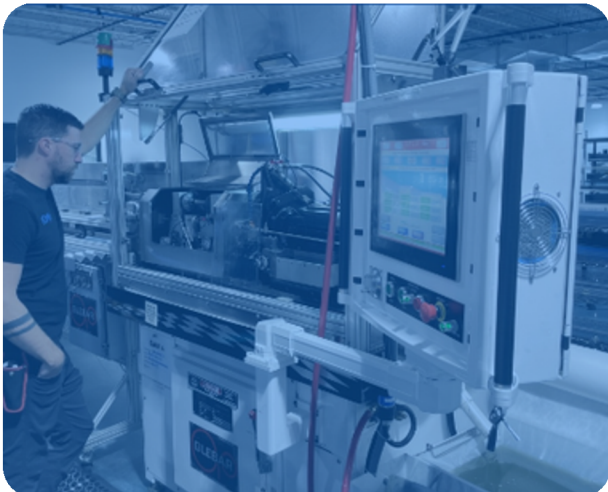
- Dedicated R&D Lab
- Engineering & DFMA
- Automation Development “Sandbox”
- Prototyping to Production



Empowering Supply Chain Success

We understand the importance of flexibility, adaptability, and partnerships in achieving supply chain success. Our philosophy is to invest alongside our clients, regardless of their size. We balance their growth with our own, and only by helping THEM succeed, do we succeed.

- Flexible Order Quantities
- Blanket Orders / LTAs / Supply Agreements
- Inventory Management



Unmatched Quality

QUALITY

ISO 13485 Certified



AS9100 D Certified



FDA Registered



Class 8 Clean Room



99% lot acceptance rate



>90% Net Promoter Score



Value Driven Success Formula

We put client support first with transparent, responsive service and direct access to our expert teams. We understand your needs, create innovative solutions for complex challenges, and lead the industry with our commitment to excellence.

1. Opportunity Dialog

We discuss your needs, quality standards, and requirements, as well as understanding what really matters beyond the text on the page.



2. Scope Clarification

We process your RFQ/RFP, and our business development engineer interacts directly with you, or your engineering staff, to review your project scope and provide an accurate quote.



3. Initiation

Upon your acceptance of our proposal, we assign the right engineer to your project, align our quality control with your standards, document the manufacturing and quality plan, conduct a quality engineering review (QER), and schedule a realistic timetable.



4. Execution

Now, it's time to make the promised parts. An assigned project manager will keep you updated, and a client support administrator is available for any questions, ensuring timely delivery.



5. Completion & Delivery

We complete your manufacturing project according to your needs and expectations, execute logistics, and communicate your shipment information.



6. Post Review

After your order is complete, we perform an engineering post-review process that involves securing and maintaining your data and files and requesting your feedback to ensure that we're ready to deliver our promise next time – and the time after that.



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