

# EDM Department

Engineer. Develop. Manufacture.



## MEDICAL INDUSTRY CAPABILITIES

With 15 years' experience working within the medical industry, the EDM Dept. knows how to engineer, develop and manufacture to the highest precision requirements.

Whether it's implant components or surgical tools, we're working on some of the most cutting edge products within the industry – from micro to nano products.

Our extensive experience in the medical and surgical industry means we know how to work to the strict demands the medical industry requires - both in terms of precision and durability.

Even better we can offer you a total solution by taking your project from concept to final production or can supplement your team by offering engineering, development or production run manufacturing.

### Project Experience:

- Surgical Instruments
- Silicone Micro Implants
- Ear, Throat and Nose Implants
- R&D Tooling
- Production

### Additional Project Experience (specific to medical industry):

- Highly-engineered surfaces for hematology
- Medical diagnostic equipment
- Tympanostomy implants
- Otology instruments
- Disposable medical and dental surgical instruments
- Engineered surfaces for medical implants
- Artificial heart project
- Custom orthodontic devices and implants
- Stents

### Hydrophobic Surfaces:

- Stainless Steel -174PH
  - 304 Stainless
  - 410 Stainless
  - 316 Stainless
- Titanium
- PEEK
- Silicone

Connect with us  
for your next  
precision project:

630.736.0531  
edmdept.com

### DID YOU KNOW?

EDM Dept has produced hundreds of custom medical implants and surgical devices over the last 15 years to ultra high tolerances.

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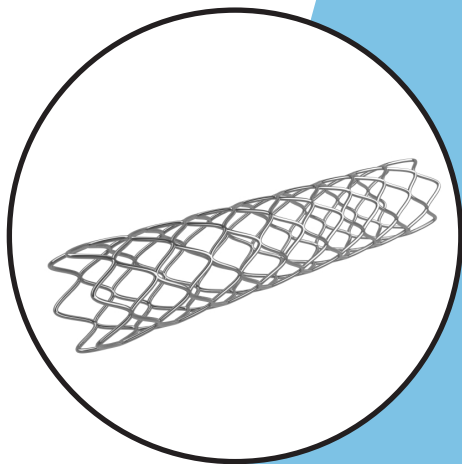
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Companies choose EDM Dept because we push the limits of manufacturing finding ways to produce the products people dream of while meeting tough quality standards.



## Medical companies choose us because:

**...we know the medical industry.** We know the quality standards required for implants, instruments and diagnostic equipment. We know the requirements. We know the struggles. We know what the implants & instruments must endure and how they are being used (and abused). Whether it be a permanent implant or a disposal medical surgical instrument, our experience has shown us in the medical industry microns matter.

**...we know precision.** Our laser focus on precision, tolerances and surface roughness has us constantly looking for ways to improve the manufacturing process. We stretch the limits of manufacturing to find new ways to achieve results while reducing production costs. In fact, EDM Dept is an active partner in US Government's Digital Manufacturing & Design Innovation Institute to continue to lead manufacturing technologies.

**...we complement your team.** Our vertically integrated manufacturing process allows us to offer solutions from production runs to supplementing your engineering capabilities. Some medical companies use us for production manufacturing, some for mold design and build and still others for engineering consulting. Whatever your need, EDM Dept is here to help.

# MEDICAL INDUSTRY CAPABILITIES

## Special Manufacturing Capabilities

- Aspect ratios up to 38:1
- Feature sizes as small as 40 $\mu$ m
- Tolerances as low as 1 micron
- Surface finishes to 4Ra micro inch
- In-depth, non-contact measurements of almost any shape, size and form
- Surface roughness inspection
- 3D part scan to 3D CAD model overlays with difference modeling



**We offer production capabilities in Sinker EDM, Wire EDM, Precision and Micro Milling, Laser Ablation and 3D Metrology Services.**

**Visit [www.edmdept.com](http://www.edmdept.com) for details on our services.**

(P) 630.736.0531 • (F) 630.736.0530 • [edmdept.com](http://edmdept.com)

Request a quote at [rfq@edmdept.com](mailto:rfq@edmdept.com)

Sales inquires at [sales@edmdept.com](mailto:sales@edmdept.com)

Visit us at **1261 Humbracht Circle Suite A, Bartlett, IL 60103**



## About Us

EDM Department is an engineering firm renowned for micro manufacturing capabilities. Our vertically integrated manufacturing process produces high quality products to extremely tight tolerances – up to 50x smaller than the width of a human hair – meeting the tight tolerances required for a multitude of applications within major manufacturing industries including: medical, defense, telecommunications and interconnect. Despite our name, we offer a full suite of engineering, development and manufacturing services including:

- Sinker EDM
- Wire EDM
- Precision & Micro Milling
- Laser Ablation
- Mold & Tool Design
- 3D Metrology Services

Currently, we are working as an active partner in US Government's Digital Manufacturing & Design Innovation Institute to continue to lead manufacturing technologies. Our commitment to quality and implementation of the newest and best electrical discharge machining (EDM) technologies on the market allows us to consistently meet and exceed our customers' needs for tighter tolerances, better finishes and reduced costs.

