

# CUSTOM COIL SOLUTIONS



## FOR MEDICAL TECHNOLOGY

Medical Precision Windings can supply product down to 58 gauge (.004") for use in medical navigation coils, CT, PET and MRI scans. We also supply surgical coils, heater coils, catheter deployed coils and medical antennas that are used for transmission of data and battery charging.



# CUSTOM COIL SOLUTIONS FOR MEDICAL TECHNOLOGY

## OVERVIEW

Dedicated to medical electronic coil winding, inim veniam,quis nostrud exercitation ullamco laboris nisiut aliquip ex ea commodo consequat. Ut enim ad minim vecghzniam,quis nostrud exercitation ullamco.

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| Experts in medical winding requirements                |
| I.D. as small as (.005") to (0.12mm)                   |
| Wire sizes 32 to 58 gauge                              |
| Programmable winding machines used under microscopes   |
| Microprocessor-controlled soldering                    |
| Digitally controlled bonding ovens and (-40°C) freezer |

## APPLICATIONS

Applications include medical devices for internal arterial probes, catheter implants and numerous sensing applications. We are not limited by size or configuration.

|                               |
|-------------------------------|
| Heater Coils                  |
| Surgical Coils                |
| Proximal Coils                |
| CT, PET and MRI Scan Coils    |
| Magnetic Devices              |
| Navigation Coils              |
| Surgical and Monitoring       |
| Oxygen Monitoring Systems     |
| Electrode Defibrillators      |
| Internal Vascular Probe Coils |
| Surgical Coils                |

## TECHNOLOGY

Classic Coil Company has developed proprietary Micro Coil Technology, processes for fine-wire winding and soldering (40-58 gauge wire).

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| Experts in medical winding requirements   |
| 4 to 58 gauge (.0004") winding capabilities   |
| I.D. as small as (.005")  |
| Lead wire assemblies for catheter deployment, 58 gauge to 50 gauge, twisted lead pair |
| Programmable winding machines used with microscopes                                   |
| Microprocessor-controlled soldering irons   |
| Digitally controlled bonding ovens and -40°C freezer                                  |
| Encapsulation in medical-grade polymers   |
| Class 8 Clean Room  |

## PRODUCTS

Products include medical devices for internal arterial probes, catheter implants and numerous sensing applications.

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| 58 gauge (.0004") wound coils - 4 gauge   |
| Air coils, bobbin wound coils, squares, rectangles, ovals and custom configurations |
| Ferrite wraps   |
| Gold wire   |
| Platinum wire   |
| Silver wire   |
| Value-added lead wire assemblies, 58 gauge to 50 gauge, twisted lead pair           |
| Encapsulated coils  |
| Flex circuit to coil assemblies   |
| Fine-wire soldering   |
| Litz wire   |

Images and captions to come

## CAPABILITIES

Classic Coil has the equipment and personnel to meet all of your most demanding requirements.

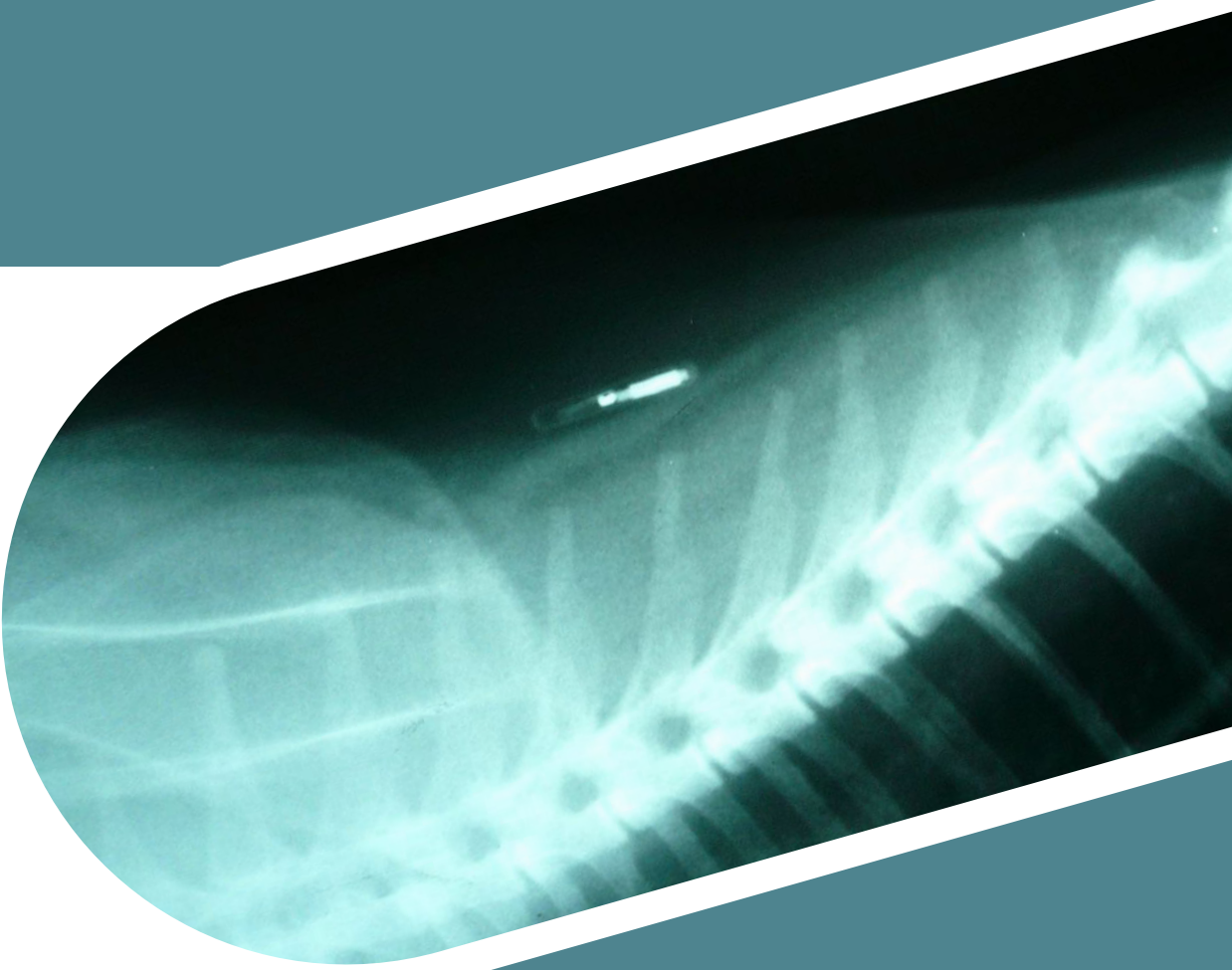
|   |
|---|
| Class 8 Clean Room compliant  |
| Closed loop single- and four-spindle, computer-controlled winding machines capable of perfect layer winding and microscope-equipped operators |
| Precision fine-wire tension devices   |
| Fine-wire stripping processes to 58 gauge   |
| Microprocessor-controlled tinning, soldering and secondary assembly stations  |
| Microprocessor-controlled ovens and freezers  |
| CCD camera-equipped microscopes with 20" LCD viewing monitors for inspection, training, and dimensional confirmation                          |
| Solid-state, multi-megahertz, multi-functional frequency testing instruments  |
| Laser marking   |
| Electronic Voltech testers  |

## QUALITY ASSURANCE

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|---|
| ISO 9001:2015 Certified   |
| J-STD-001 and IPC-A-620 Certified   |
| Nuclear power industry certification  |
| Numerous aerospace awards for quality                                       |
| Hold tolerances to +/- (.0005") to (.0127mm)                                |
| CCD camera-equipped microscopes for inspection and dimensional confirmation |
| ITAR compliant  |



Size doesn't matter; Classic can do it all



Specialized coils for surgical implantation

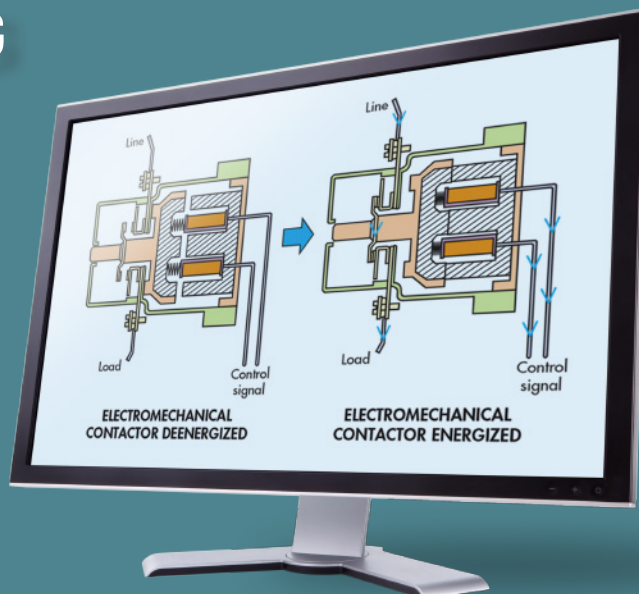
# ENGINEERING ASSISTANCE

Classic Coil is happy to offer engineering assistance as a service to our clients. Our engineering staff stands ready to work with you through each step of the process to optimize your coil design for functionality and low cost. It all starts with understanding your product's environment through to first production runs. We follow Advanced Product Quality Planning (APQP) guidelines for product development.

**For qualified projects, we make prototypes at a minimum charge plus any out-of-pocket tooling costs.**

## OUR BACKGROUND AND MISSION

Classic Coil Company was founded in 1973 and, always maintaining its original excellence, has grown and expanded to meet the needs of its clients. Over the decades, our business leaders have followed a philosophy of continuous improvement, ensuring manufacturing efficiencies to keep costs down and negotiated supply contract terms to benefit our customers. We remain innovative, incorporating new technologies, upgrading equipment and software, and exploring new products and markets. We believe in tapping into the long-term knowledge



### Engineering assistance categories include:

- Bobbin Design
- Magnet Wire & Lead Wire Selection
- Magnetic Path Components
- Encapsulant Decisions
- CAD Component Files
- Materials Selection

Above:  
Our engineering department utilizes a variety of CAD and engineering programs to assist in the design, construction and performance of your products.

of our employees, many of whom have been with the company since its inception. Our capabilities and philosophy give us an edge in today's very competitive marketplace, an edge that can assist you with all of your electromagnetic coil and assembly needs.



At left: Company headquarters in Technology Park, Bristol, Connecticut



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