

CUSTOM COIL SOLUTIONS



FOR MEDICAL TECHNOLOGY

Medical Precision Windings can supply product down to 58 gauge (.0004") 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 nisi ut aliquip ex ea commodo consequat. Ut enim ad minim veniam, quis nostrud exercitation ullamco.

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

Electro 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).

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.

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

ISO 9001:2015 Certified

J-STD-001 and IPC-A-620 Certified

Nuclear power industry certification

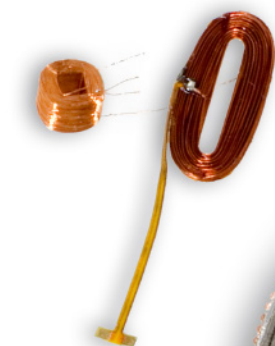
Numerous aerospace awards for quality

Hold tolerances to +/- (.0005") to (.0127mm)

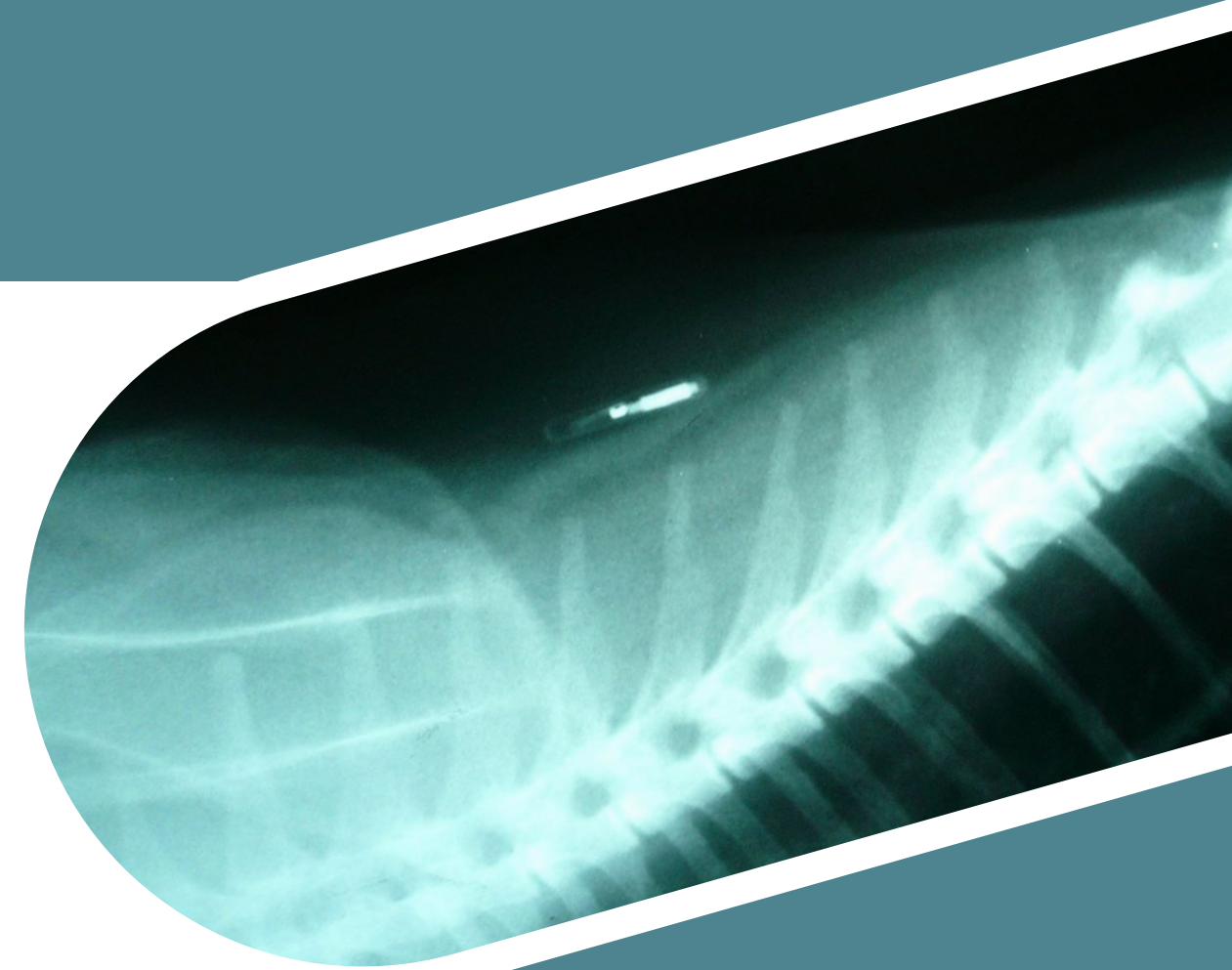
CCD camera-equipped microscopes for inspection and dimensional confirmation

ITAR compliant

Specialized coils for surgical implantation



Size doesn't matter; Classic can do it all



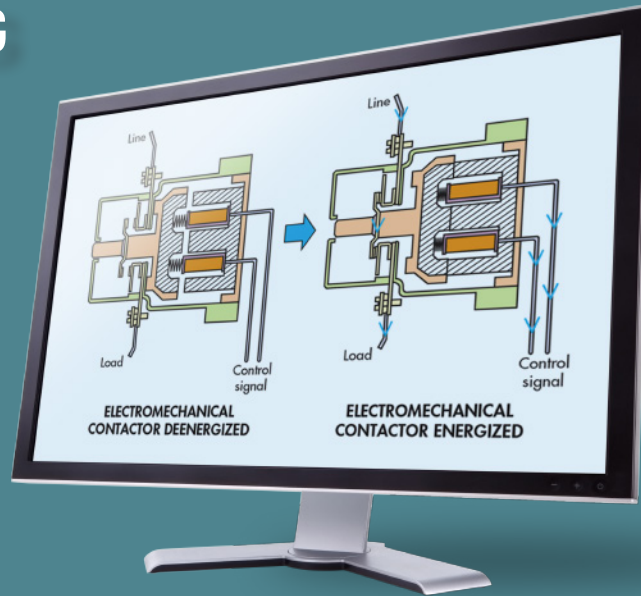
ENGINEERING ASSISTANCE

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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