MAGNETIC DEVICES FOR MEDICAL APPLICATIONS INCLUDE:

- Antenna/telemetry coils for implantable and programming devices
- Primary/secondary coils for wireless charging of implants
- 3-axis transmit and receive coils for surgical navigation
- High voltage transformers and inductors for implantable defibrillators
- High frequency transformers/inductors for ablation equipment
- Send/receive coils for base to device communication
- RF sensing coils for arthroscopic navigation instruments
- Isolation transformers for medical devices and power supplies
- EMI components for signal conditioning
- Value-add assemblies

OTHER MEDICAL RELATED APPLICATIONS WHERE OUR DEVICES ARE USED, INCLUDE:

- Sterilization equipment
- Laser surgical equipment
- Diagnostic imaging (ultrasound and computerized tomography)
- Scans and CRT monitors

Medical Industry

Medical electromagnetics for a wide variety of applications and processes that meet ISO 13485 and clean room requirements
WHO WE ARE

Cost containment and speed to market are key objectives for medical device manufacturers. For over 30 years, TT Electronics has worked globally with medical device firms, including start-up companies, and has provided a wide range of products and services for a vast array of medical device technologies.

Our engineers work from the early idea stage of product definition through production. With the use of simulation software and continued research, TT Electronics has developed miniature coil manufacturing capabilities for navigation technologies. These assemblies feature ultra-fine 58 AWG wire winding and a wide variety of configurations (including unique-in-the-industry angular winding configurations) that allow for enhanced position sensing.

Our electromagnetics provide high reliability for power and communications in implantable or external medical devices. Applications that utilize our devices, include: external defibrillators, implantable defibrillators, kidney dialysis equipment, ablation therapy systems, sleep apnea equipment, RF programming devices, hearing aids and a variety of diagnostic and testing equipment.

TT Electronics is regularly involved in the development of new devices for invasive and non-invasive products.