



# HEALTHCARE TECHNOLOGIES

SHAPING THE FUTURE OF HEALTHCARE



# DIAGNOSTIC & THERAPEUTIC EQUIPMENT

With technology evolving exponentially, deadlines are tighter and performance standards are more stringent. With TT Electronics as your partner, you'll reduce risk, deliver more reliable diagnostic and therapeutic equipment and accelerate time to market.

## KEY PRODUCTS AND TECHNOLOGIES

Medical Power Supplies  
Electromagnetic Coils  
Optoelectronics  
Fixed / Variable Resistors  
HMI  
PCBA & Full Systems Integration  
Custom Equipment Assemblies



## APPLICATION EXAMPLES

X-Rays Imaging Equipment  
CT and MRI Machines  
Laboratory Equipment  
In Vitro Diagnostics (IVD)  
Immunodiagnostic Instruments  
Tissue Oximetry Monitoring

# LABORATORY & LIFE SCIENCES

TT Electronics provides a comprehensive range of advanced products and is complemented by specialized engineering expertise and manufacturing facilities that meet or exceed the highest requirements of medical certifications.

## KEY PRODUCTS AND TECHNOLOGIES

Medical Power Supplies  
Electromagnetics  
IoT Connectivity  
Optoelectronics  
Fixed / Variable Resistors  
HMI



## APPLICATION EXAMPLES

Therapeutic drug monitoring  
Gene Sequencing  
Immuno Assay  
Chemi Luminescent Analysis  
Pill Counting and Dispensing  
Automated Medical Equipment (vial carousel)  
Portable Hemodialysis Systems

# SURGICAL TECHNOLOGIES

Not only does TT Electronics offer an extensive portfolio of surgical technology solutions, we also customise them to specifically meet your healthcare challenges. TT's sensor technologies deliver the highest degree of accuracy and precision and are easily integrated into a variety of interventional and minimally invasive devices.



Ablation Catheter

## KEY PRODUCTS AND TECHNOLOGIES

- Electromagnetic Tracking Coils
- RF Sensing Coils
- Optoelectronics / Sensors
- Medical Cable Harness Assemblies
- Custom Device Manufacture and Integration



## APPLICATION EXAMPLES

- EM Tracking
- Cardiology / Electrophysiology
- Neurosurgery / Brain
- Ear, Nose & Throat (ENT)
- Minimally Invasive Diagnostics/Therapies
- Robotic Assisted Surgery Procedures

# IMPLANTABLE & WEARABLE DEVICES

TT Electronics understands you need to maximise your implantable and wearable technologies in today's world. We are here as your partner to develop a more reliable and innovative product, accelerate the time to market and streamline a smarter supply chain.



Cardiac Pacemaker

## KEY PRODUCTS AND TECHNOLOGIES

- Communication / Connectivity Solutions
- High Voltage Transformers & Inductors
- Microelectronics
- Wearable IoT Devices
- Custom Device Assemblies

## APPLICATION EXAMPLES

- Cardiac Rhythm Management
- Neuromodulation
- Remote Patient Monitoring
- Hearing Health
- Ventricular Assist Devices



# CAPABILITIES IN ACTION



## POWER

Enhancing power conversion and management



## SENSORS

Upgrading sensors to meet demands of the future



## CONNECTIVITY

Optimised and secure devices that connect, sense, track, and monitor.



## MANUFACTURING

Entrusting a manufacturing partner to bring a product to market

## A GLOBAL BUSINESS OF SCALE

**31** WORLDWIDE LOCATIONS

**3** REGIONS  
AMERICAS EUROPE ASIA

**5K** GLOBAL EMPLOYEES

## MANUFACTURING SERVICES

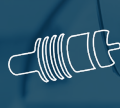
TT Electronics works with some of the world's most elite medical device companies all over the world, offering end to end solutions focused on "right fit partnerships". We specialise in high mix, low volume electronics manufacturing from printed circuit boards to complete system assembly and integration. We bring high-complexity medical and clinical products to market quickly and efficiently with specialised engineering and manufacturing capabilities.



Engineering + Design



Electronics Manufacturing



Cable Harness + Interconnect



Testing Solutions



Specialty Services



Supply Chain Management



Fulfilment



Aftermarket Services

## RELATED CERTIFICATIONS

ISO 9001  
ISO 14001

ISO 13485  
UL Cable Approval

IPC-A-610D  
J-STD-001\*

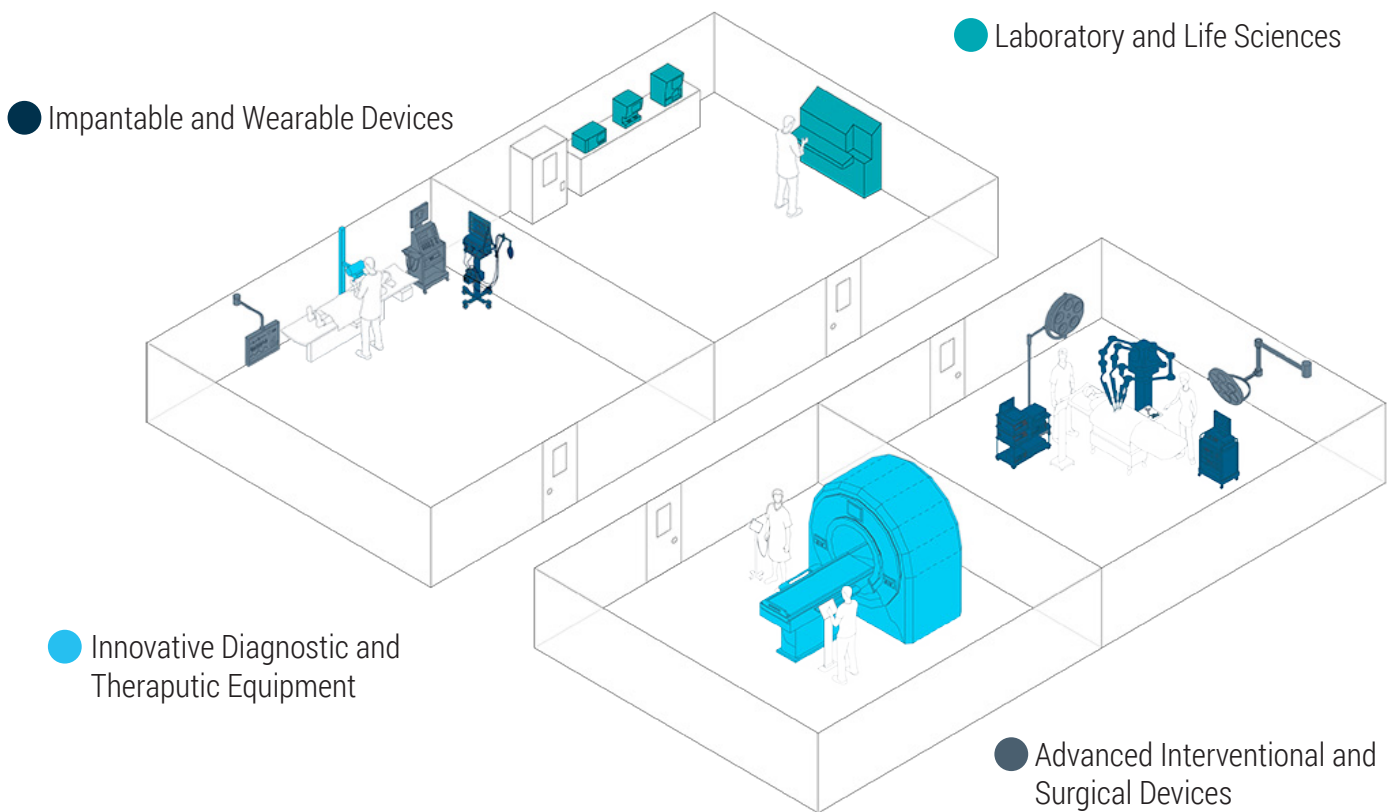
FDA Registered Facilities  
Cleanroom Facilities

For a complete listing of our certifications, visit [www.ttelectronics.com](http://www.ttelectronics.com)

## HELPING SHAPE THE FUTURE OF HEALTHCARE

The world's leading healthcare technology innovators rely on TT Electronics for their therapy driven, safety-critical electronics. Our power, connectivity, and sensor technologies span the modern surgical suite; from patient monitoring and therapeutic devices to surgical navigation and diagnostic equipment.

Our electronic components and assemblies are used in surgical navigation systems to help deliver therapy directly to patients during minimally invasive procedures, as well as in implantable devices and other external applications that require high reliability power and sensor-enabled communication.



## ABOUT TT ELECTRONICS

TT Electronics is a global provider of engineered electronics for performance critical applications. TT solves technology challenges for a sustainable world. TT benefits from enduring megatrends in structurally high-growth markets including healthcare, aerospace, defence, electrification and automation. TT invests in R&D to create designed-in products where reliability is mission critical. Products designed and manufactured include sensors, power management and connectivity solutions. TT has design and manufacturing facilities in the UK, North America, Sweden and Asia.

For more information about TT Electronics, visit [www.ttelectronics.com](http://www.ttelectronics.com).



A woman with blonde hair is lying on a medical table, looking upwards. Her face is marked with two horizontal red laser lines. She is wearing a blue hospital gown. In the background, a white medical device with a small red light is visible. The overall scene is brightly lit, suggesting a clinical or hospital setting.

**TACKLING THE  
TOUGHEST  
HEALTHCARE  
CHALLENGES**