

OUR MARKETS: CREATING VALUE IN

HEALTHCARE

We provide design and manufacturing solutions for a range of diagnostic, surgical and direct patient care devices critical to the identification, treatment and prevention of disease.

The past two years have reinforced the importance of public health to the smooth functioning of society. Efforts to improve healthcare infrastructure have intensified globally, with wellness and longevity a top priority for consumers. These forces serve to accelerate the pace of innovation within the healthcare ecosystem. Given the central role that electronics play in advancing medical technology, the COVID-19 pandemic has strengthened many of the tailwinds which have long supported the market.

Market trends and drivers

The global medical device manufacturing market is expected to have grown by over 6% in 2021. This attractive growth is characteristic of healthcare. While certain sub-segments of the market, such as elective surgery equipment, have not been immune to the idiosyncratic progress of the pandemic, return to growth is a hallmark of healthcare's inelastic demand profile. The medium- and long-term outlook for the global medical device manufacturing market is equally optimistic, with an expected CAGR of 5-7% to 2025.

Notable drivers include technological advancement, the increasing ageing population, and rising patient awareness. Technology has prompted many end users to overhaul or update their medical manufacturing systems. As this is a costly process, end users are increasingly seeking trusted third-party partners, such as TT, to service these needs. Additionally, we are well placed to capitalise on increasing demand for high-complexity products which is structurally driven by technological advancement. We therefore continue to expect favourable shifts in product mix towards high-value, high-margin devices suited to our capabilities. Finally, these dynamics are supported by consistent increases in life expectancy with the world's population of over 60s expected to double by 2050.



Contribution to Group

25%

of Group revenue



progress in areas of drug discovery, vaccine production, and more. And, through developing smaller, lighter, more precise surgical devices, we are reducing the size of incisions, shortening recovery times, and improving overall patient outcomes. In addition, by improving the portability and ease of use of diagnostics, we are increasing the availability of medical imaging to point-of-care facilities. This promotes earlier detection and better monitoring, hence supporting measures taken to address the rising prevalence of cancer, cardiac, neurological, and musculoskeletal disorders.

While there is emphasis on addressing supply chain challenges across the Group, the urgency of ensuring healthcare products are delivered in a timely manner is top of mind given the human cost associated with such issues. We are proactively working with customers to mitigate global shortages and extend visibility into future demand. At the same time, we are able to leverage our globally integrated manufacturing footprint to mitigate local issues and seamlessly deliver products by collaborating across the network. We believe that enhanced dialogue and continued performance under adversity has deepened our relationships with key customers.

Expected market growth

5-7%

Healthcare market 2021-25 CAGR

Our response

The pandemic created an opportunity to demonstrate to customers the extent of TT's agility by maintaining quality standards while rapidly and flexibly scaling production of urgently needed products. Over the past year we have sought to capitalise on that positive momentum. Our strategy has been tailored to bolster our technical expertise and capability in areas which OEMs find most complex to navigate, such as where significant engineering precision is required or there are constraints due to regulatory compliance.

Notable focus areas for the Group include life sciences and laboratory equipment, surgical devices, medical implants, and diagnostics and imaging equipment. In line with our purpose, we are energised by the tangible contributions we can make to health and quality of life in society. By supporting our life sciences partners, we are collectively improving laboratory automation systems and enabling samples to be collected and analysed with minimal human intervention, the benefits of which are improved data reliability and accuracy, minimised wastage, and time-efficient experiments. Ultimately, this is enhancing scientific

TECHNOLOGY SHAPING THE FUTURE OF HEALTHCARE

What we do

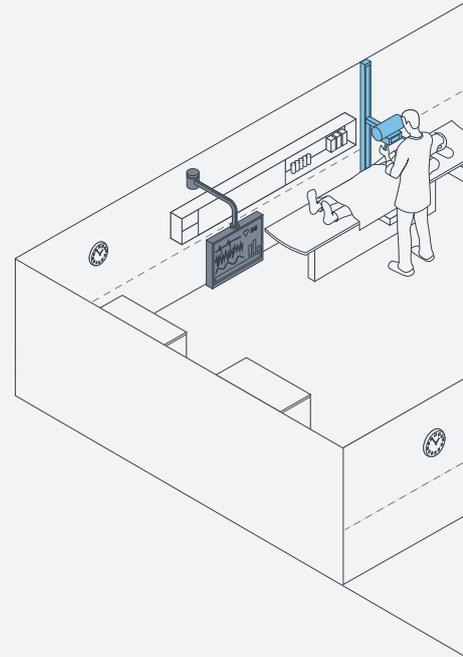
Our power, connectivity, and sensor technologies span the modern surgical suite; from patient monitoring and therapeutic devices to surgical navigation, diagnostic equipment and life sciences.

Our products 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.

Market revenue by division



TT Electronics in action



Advanced interventional and surgical devices

- Surgical navigation technology for ablation and resection procedures
- Implantable pacemakers and defibrillators
- Neuromodulators
- Implant programmers and chargers
- Ventricular assist systems
- Robotic assisted surgery



Innovative diagnostic and Imaging

- Ultrasound, X-ray and MRI machines
- Radiotherapy equipment for cancer treatment
- Sensor-enabled diagnostic devices

Direct patient care and monitoring

- Patient monitoring equipment, including remote applications
- Anaesthesia machines
- Surgical lighting
- Cardiopulmonary perfusion equipment
- Ventilators and defibrillators
- Fluid monitoring
- Wearable technologies

Laboratory and life sciences

- Therapeutic drug monitoring
- Gene sequencing
- Immuno-assay
- Pill counting and dispensing
- Portable hemodialysis systems
- Scientific instrumentation