

Innovations for Cardiovascular Medical Devices

EMPOWERING MEDICAL DEVICE COMPANIES TO DESIGN, DEVELOP AND BRING CARDIOVASCULAR THERAPIES TO MARKET FAST.



Medical devices for cardiology play a critical role in diagnosing, monitoring and treating cardiovascular diseases. From wearable electrocardiogram monitors to advanced catheter technologies, these devices have revolutionized patient care, enabling earlier detection and more precise interventions.

The journey from concept to market-ready products comes with challenges like navigating supply chain issues, meeting regulatory requirements, keeping up with technological advancements, and understanding clinical workflows and patient experiences.

Trelleborg specializes in producing a range of components and finished level assemblies critical for cardiology applications, including but not limited to:

Implantable leads

Using advanced materials, we offer superior grades of implantable single or multi-lumen extrusion, insert overmolded components and drug-eluted components for implantable cardioverter-defibrillators (ICD), cardiac resynchronization defibrillators (CRT) and neurostimulators.

Catheter components

Expertise in complex molding and slitting for hemostasis valves and valves stack assemblies, handle mechanisms and overmolded proximal ends ensures precise and reliable designs.

Drug-eluting technologies

From biodurable and bioresorbable distal components used for active fixation to reducing the risks of infection or implant rejection, Trelleborg supports the next generation of cardiovascular drug-eluting devices.

Hemostasis Valves



Collaborating on critical components

Partnering with our customers, we engineer hemostasis valves to prevent backflow, reduce air embolism risks and accommodate varying French sizes without limiting a physician's ability to guide devices through intricate vascular pathways.

Leveraging advanced molding, slitting and post-processing techniques, Trelleborg ensures these valves meet the highest standards of functionality and reliability. By integrating solutions like surface modifications to reduce friction, these devices offer superior performance during complex procedures.

THE TRELLEBORG DIFFERENCE



Diverse Production Capabilities

We excel in extrusion, custom molding, overmolding and multicomponent molding, dipping and coating technologies and high-volume automated assembly using a range of materials. This integration means we offer superior quality and efficiency under one roof.



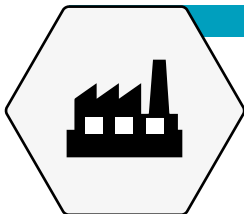
Materials Expertise

Trelleborg doesn't just offer cutting-edge engineering—we also have a robust library of materials. With elastomers, thermoplastics, silicones and metals managed in-house, we provide unmatched flexibility to optimize device design.



Simplified Supply Chain

Our all-in-one approach reduces the complexity of working with multiple suppliers by providing a single-source solution. This minimizes logistical challenges, streamlines quality assurance processes, lowers costs for customers and creates efficiencies to develop and scale projects quickly to help medical device engineers stay focused on what matters most—innovation.



Local Manufacturing Presence

While Trelleborg operates on a global scale, we understand the importance of nearsourcing. Our strategically placed facilities enable us to meet customer demands wherever they are. This commitment to “local for local” ensures that projects are developed and produced near their intended markets, reducing lead times and logistical hurdles. With operations expanding to areas like Costa Rica and Malta we're making it easier than ever for global customers to reach their target markets.



Partnering for Innovation

At our Innovation Center, Trelleborg collaborates with customers from early feasibility to final production, offering guidance on geometry, materials and manufacturability. Our team's commitment to innovation and quality ensures your devices not only meet industry standards but also exceed user expectations. Our technical teams are an extension of our customers' development teams offering resources for design collaboration like finite element analysis (FEA), design for manufacturability (DFM) and mold flow simulation.

CONTACT US

Do you need support with medical devices for cardiology projects?
Reach out to Trelleborg Medical Solutions to learn how we can support you.
www.trelleborg.com/medical/contact-us



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