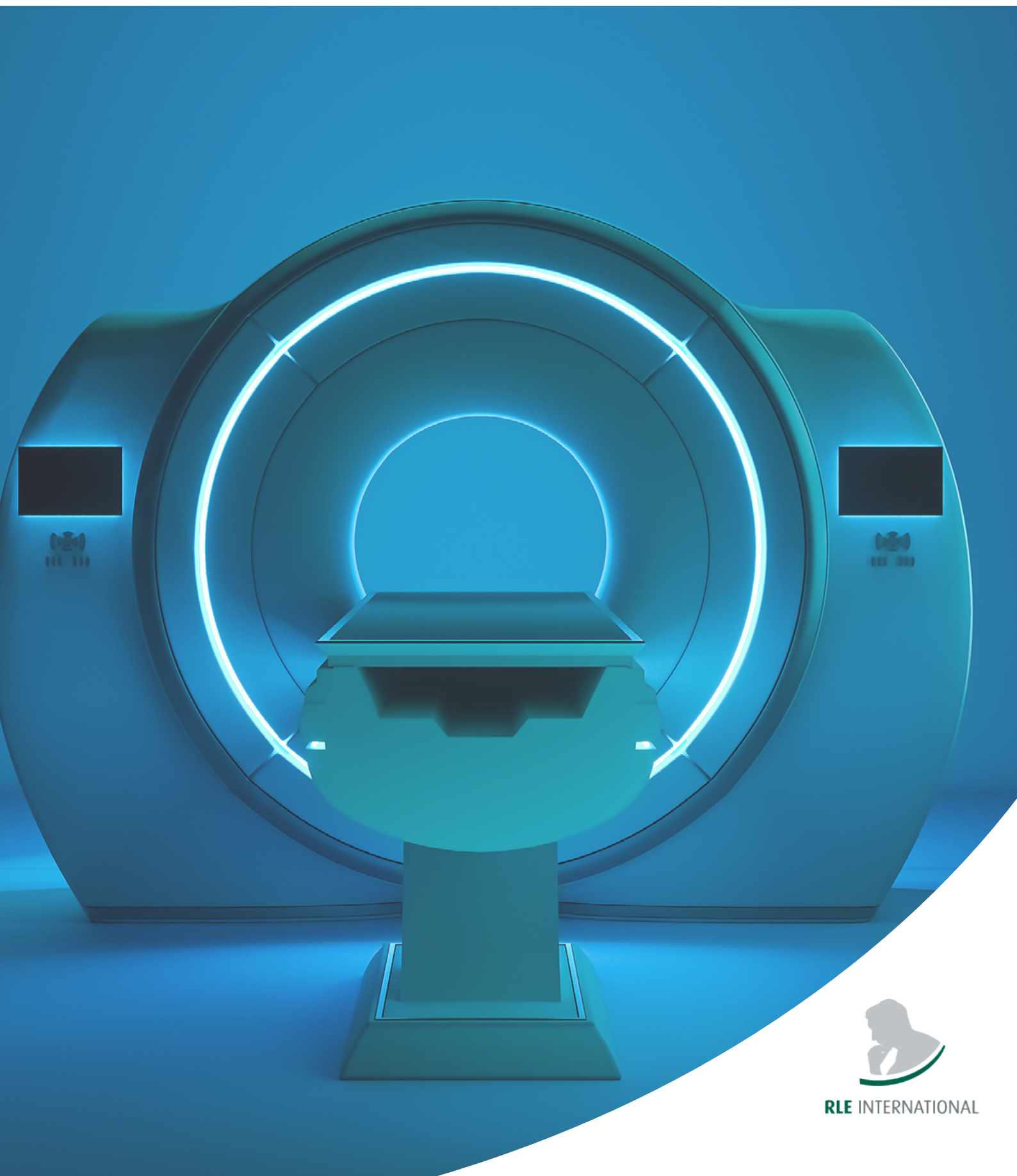


Global. Agile. Digital.

RLE INTERNATIONAL Group



RLE INTERNATIONAL

System Development and Integration for Medical Technology

Technological Precision Meets Regulatory Confidence



Developing modern medical technology requires the perfect interplay of innovation, precision, and regulatory compliance. Complex system architectures, highly integrated components, and digital development processes form the foundation for safe, high-performance products.

As an experienced development partner, RLE supports companies in the medical technology sector with tailored solutions – from embedded software and system integration to simulation-based testing procedures. We understand the industry's specific requirements and work alongside our clients to develop systems that are technologically advanced and fully compliant with regulatory standards.



Regulatory requirements & quality assurance

Strict standards such as ISO 13485 and the MDR demand precise development processes. We support our clients with validated methods, simulation-based testing, and thorough documentation to ensure compliance.



Miniaturization & high-precision manufacturing

Smaller device designs and precision components place high demands on development and production. We deliver technological solutions that enable advanced functionality within compact form factors.



Digital assistance systems & automation

From smart diagnostic tools to surgical robotics – we develop and integrate complex systems that enhance precision, safety, and efficiency in clinical environments.



Engineering know-how & specialized talent

Medical technology development requires interdisciplinary teams. Our experts bring targeted expertise in mechanics, electronics, and software into every project phase.

System Solutions for the Maritime Industry – Focused on Efficiency and Integration

Medical systems development demands the highest levels of precision, safety, and compliance. To meet these demands, RLE combines advanced systems engineering with simulation-driven development, embedded software expertise, and a deep understanding of regulatory processes.

We design customized architectures for connected safety-critical systems – from concept to series production. Validation and quality assurance are enabled through digital twins, automated testing, and model-based systems engineering (MBSE).

With our capabilities in system integration, compliance strategies, and embedded software, we deliver solutions that unite technological innovation with regulatory readiness – for safe, high-performance medical devices ready for market approval.



"In medical technology, it's not enough to develop functional systems. They must also be safe, durable, and seamlessly integrable within regulatory frameworks. With our engineering expertise, we unify complex software, electronics, and mechanics into one solution – efficient, reliable, and ready for certification."

Volker Piel
Head of Business Unit Vehicle
Engineering – RLE International

RLE INTERNATIONAL Produktentwicklungsgesellschaft mbH
Brodhausen 1, 51491 Overath, Germany

Phone: +49 (0) 22 04 | 97 25-0
Email: info@rle.de
www.rle.international

CEO authorized to represent the company:
Ralf Laufenberg (Chairman)

Register court:
Cologne Local Court / HRB: 19445
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