

Global. Agile. Digital.

RLE INTERNATIONAL Group



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System Development and Integration for Special Vehicles

Powerful performance under extreme conditions



Special vehicles are designed for use where conventional systems reach their limits. Whether in construction, agriculture, mining, or defense – these machines must deliver reliable, high-performance, and efficient operation under extreme conditions. RLE provides tailored engineering solutions – from powertrain and chassis development to smart control systems and advanced electrical and electronic concepts. We understand the challenges of this demanding sector and respond with technological expertise, holistic engineering, and agile project support.

Our engineering teams contribute in-depth technical knowledge and innovative thinking to every stage of the project. We support our customers from the concept phase through to series production – with efficiency, reliability, and a customized approach.



Extreme Operating Conditions & Vehicle Structure

Durable chassis, reinforced structures, and corrosion-resistant materials ensure maximum reliability – even in harsh temperatures or difficult terrain.



Performance & Load Management

Optimized chassis designs and intelligent load distribution systems guarantee stability, efficient power transmission, and peak performance under heavy loads.



Specialized Powertrain Systems & Energy Supply

Reliable conventional and alternative drive systems, combined with smart energy management, ensure uninterrupted operation – even during extended duty cycles.



Electronics & System Integration

From sensors to control units and assistance systems – modern electronic architectures enhance safety, precision, and automation in complex special vehicles.

Hydrogen Solutions for Heavy-Duty Vehicles

Special vehicles in construction, mining, and logistics are undergoing a technological transformation. Hydrogen propulsion is becoming increasingly relevant, offering a combination of high performance and low emission mobility even in demanding operating environments.

RLE develops efficient system solutions for heavy-duty machines: from the integration of hydrogen-based propulsion architectures and the design of energy storage systems to ensuring secure system networking.

Our engineering expertise bridges robust vehicle technology with cutting-edge energy solutions. Working closely with our customers, we create future-proof heavy-duty vehicle concepts designed for performance, durability and sustainability.



„Each special vehicle has its own requirements, from extreme environmental conditions to complex control systems. Our mission is not just to provide technology, but to find the best solution for each specific application - efficient, practical and tailored to our customers' needs. „

Sandra Hummel
Senior Manager Sales – 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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