Railway Technology and Infrastructure in Belgium and Germany: Profiles of the German Companies



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AKG Thermotechnik International GmbH & Co. KG

Am Hohlen Weg 31, 34369 Hofgeismar Germany +49 (0) 56 71 8 83 - 0 Thomas Cott, Head of global Service Business, Team Leader Eng./Sales System Business info@akg-gruppe.de www.akg-group.com/akg-group/

Founding Year 1919 / 3300 employees

Core Competence:

✓ Cooling Experts Around The Globe

Products / Services:

✓ Cooling Solutions & Systems:

- Custom-Built Heat Exchangers: Tailored solutions for rail vehicles and other industries.
- Cooling Modules: Ready-to-install systems delivered directly to the assembly line.
- Comprehensive Cooling Systems: From converter cooling to transformer oil cooling, with accessories like filters, sensors, and expansion joints.

✓ Engineering & Design Support:

- System Solutions: Integration of individual components into complete, cost-effective assemblies.
- Specialists in: noise reduction, strength calculation, hydraulic/electrical drives and sensors
- Comprehensive Testing: Testing of cooling systems to meet international standards, such as EN 45545 (fire protection) and EN 15085 (welding).

Advantages:

"The right solution for every cooling application"

- ✓ 100+ Years in Heat Exchanger Manufacturing: Over a century of innovative solutions and industry-leading competence.
- ✓ Global Presence: Operations in Germany, France, Latvia, Turkey, India, USA, Brazil, and China.
- ✓ Proven Track Record: Extensive experience in providing cooling systems for rail vehicles and other industries Tailor-Made Solutions: Custom engineering to meet specific customer requirements, ensuring optimal cooling performance.
- ✓ High-Efficiency Systems: Advanced heat exchanger designs for superior cooling capacity.
- ✓ Robust & Reliable: Systems built to withstand harsh operating environments, ensuring long-lasting performance.
- Sustainability: Eco-friendly solutions designed to reduce carbon emissions and promote energy efficiency.

Business Partner Research in Belgium:

- Rail operators
- ✓ Public transport companies
- **✓** Vehicle manufacturers







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Axtone GmbH

Rheinstrasse 15, 57638 Neitersen Germany +49 177 7505720 Bettina Hick, Sales & Business Development, Proxy bettina.hick@axtoneglobal.com www.axtoneglobal.com

Founding Year 1925 / 27 employees

Core Competence:

✓ Designs and manufacturing of highly engineered critical components and customized technology solutions

Products / Services:

✓ Crash & Impact Energy Absorption:

- Crash Technology: Development of solutions for controlled transfer and absorption of impact energy during high-speed collisions to ensure safety in rail transport.
- Customized Solutions: R&D department designs individual crash protection systems tailored to various rail vehicles.
- Wide Applications: Technology applied in locomotives, passenger trains, subways, trams, high-speed carriages, and freight wagons.

✓ Rail Vehicle Systems & Components:

- Buffers & CRASH Elements: Provide essential impact absorption technology for passenger and freight transport vehicles, ensuring vehicle safety.
- Product Customization: Tailored buffer and crash absorber solutions to meet individual customer requirements.
- High-Quality Products: Over 200 field tests confirming the reliability and functionality of all products.

Advantages:

"The Axtone Group is an expert in impact energy absorption technologies for all types of rolling stock and can also be used in other industries."

- ✓ Patented technology that absorbs impact energy through the deformation of a steel strip, converting mechanical energy into thermal energy during a collision.
- ✓ Folding Technology: Energy absorption through controlled plastic deformation of the buffer plunger, adjustable for specific customer needs.
- ✓ Advanced Absorption Solutions: High resistance to non-axial impacts and the ability to absorb energy efficiently across a range of rail applications.
- ✓ Modular Designs: Crash absorbers can be mounted in various configurations depending on available space, such as in front of or behind the buffer beam.
- ✓ Further Operation After Impact: Crash absorbers are designed to function even after a crash, ensuring continued operation.

Business Partner Research in Belgium:

- ✓ Rail operators
- ✓ Public transport companies
- ✓ Vehicle manufacturers

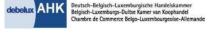






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Gertek Gerätetechnik GmbH

Beethovenstr. 1, 90592 Schwarzenbruck, Germany +49(0)91289228-0
Max Warmuth, Geschäftsführer
postmaster@gertek.com
www.gertek.com

Founding Year 2003 / 27 employees

Core Competence:

✓ **Manufacturer of customized power systems** used to protect from power outages and power quality problems in critical infrastructure, industrial environments, data centers and maritime environments

Products / Services:

- ✓ Hybrid converter SIERRA
- ✓ DC-UPS/rectifier systems
- ✓ Inverter systems
- ✓ AC-UPS-systems
- ✓ Battery systems

Advantages:

"Quality is the basic prerequisite for all activities at Gertek."

- ✓ Innovation & Technological Excellence:
- ✓ Cutting-edge technologies to stay ahead in the market
- Strong focus on the integration of renewable energy and energy-efficient solutions
- ✓ Technological leadership in the energy sector
- **✓ Customer-Centric Service:**
- ✓ Focus on delivering high-quality, error-free products on time
- ✓ Personalized, professional customer service and support
- ✓ Adherence to deadlines and customer satisfaction as the core goal
- **✓ Quality Assurance & Continuous Improvement:**
- ✓ ISO 9001:2015 certified quality management system
- Employee motivation and a culture of continuous improvement
- ✓ Strong internal processes to ensure high product quality and efficiency

Business Partner Research in Belgium:

- **✓ Rail operators**
- ✓ Active in the DACH region
- ✓ Vehicle manufacturers





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Hübner GmbH & Co. KG

Heinrich-Hertz-Straße 2, 34123 Kassel, Germany +49 561 998-0

Mr. Dennis Böhm, Regional Sales Manager info@hubner-group.com https://www.hubner-group.com/

Founding Year 1946 / 3500 employees

Core Competence:

World market leader in gangway systems for articulated buses and trains (Tram, Metro, Highspeed)

Products / Services:

- ✓ MOBILITY: Global leader in gangway systems
 - Systems (gangways, displays for rail (Trams, EMU / DMU, Metro, Highspeed) vehicles and buses
 - Airport technology
 - Chassis technology for buses, commercial vehicles and trains
 - Engineering
- ✓ MATERIAL SOLUTIONS: Specialist for sophisticated solutions
 - Elastomers
 - Insulation and composite materials
 - Industrial textiles
 - Polyurethan (e.g. Front bumpers for Trams)
- ✓ PHOTONICS: Products for a variety of photonic applications
 - High-performance lasers / Display holography
 - Terahertz-technology

Advantages:

"Whether it's a small product, a complete gangway system or an entire series: HÜBNER develops and produces tailor-made solutions for its customers, using the broad know-how of all employees worldwide "

- ✓ Advice about all the options you have in the current job market
- ✓ Highly qualified employees: Hübner is committed to the further training of experienced technicians and engineers
- ✓ The company stands for Future Mobility Innovative & Sustainable Mobility
- ✓ Certifications: ISO 9001 ff., ISO/TS 22163, etc... ECM (Entity in Charge of Maintenance → in preparation)
- ✓ Productions locations / Subsidiary (worldwide): Hungary, China, India, Italy, Netherlands, Austria, Poland, Sweden, Spain, South Africa, Malaysia, USA
- ✓ High-tech materials (partly in house developed produced, globally uniform production standards and trained specialists
- ✓ Around 1,000 patents and numerous certifications, including DIN EN ISO 9001 and DIN EN ISO 14001
- ✓ Customers worldwide

Business Partner Research in Belgium:

- ✓ Rail operators
- ✓ Public transport companies
- ✓ Vehicle manufacturers



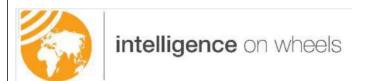




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Intelligence on Wheels GmbH

Talhofstr. 30, 82205 Gilching Germany +49 8153 29940 21 Dr. Thomas Strang, CEO info@intelligence-on-wheels.de www.intelligence-on-wheels.de

Founding Year 2012 / 5 employees

Core Competence:

✓ **Innovative railway safety systems and services**, including on-board train collision avoidance systems, personal track worker & level crossing protection systems and related solutions such as the generation of electronic maps based on cutting edge localization and communications

Products / Services:

- ✓ Collision avoidance and situation awareness systemsTrack worker protection (using personal devices)
- ✓ Level crossing protection (communication with roadside signals)
- Real-time communication between trains and other units
- ✓ Situation analysis & decision support (for collision avoidance)
- Customizable installation (rackmount units, portable units, etc.)
- ✓ Compatible with any rail vehicle (trains, maintenance vehicles, obstacles)
- ✓ Electronic map generation (HD track maps)
- ✓ System installation support (for integration into existing operations)
- ✓ Live-check control beacons (communication with nearby units)
- Track-selective positioning beyond GNSS (for improved accuracy in railway environments)
- ✓ Cooperative train-to-train and train-to-trackworker communication (optimized for railway environments)

Advantages:

"We bring the I to ITS. "

- ✓ No infrastructure modification required (no changes needed to railway track technology)
- ✓ Easy integration into existing rail fleets (does not require changes to trains or tracks)
- ✓ Scalable system & Versatile compatibility (based on the number of trains, not kilometers of track & works with current and future safety systems, like ETCS)
- ✓ Immediate communication between trains (up to 40 km)
- ✓ Safety enhancement (additional layer of safety beyond existing systems)
- ✓ Installable on any rail vehicle (including trains, construction vehicles, and objects as obstacles)
- ✓ Portable system options (supporting non-discriminatory access with all-in-one portable/mobile units)
- ✓ Non-disruptive to existing operations (trains continue using their old safety systems)
- ✓ Protects track workers and emergency vehicles from potential train accidents
- ✓ Flexibility in installation (permanent or temporary options)
- ✓ Aerospace expertise (background in anti-collision systems like TCAS, adapted for rail use)
- ✓ Railway-specific positioning optimization (addresseschallenges in specific railway environments)
- ✓ Robust positioning & communication (critical for safety-of-life applications)
- √ High-load communication management (expertise in handling communication in high-load railway conditions)

Business Partner Research in Belgium:

✓ Belgian Infrastructure manager and rail vehicle operatiors, in particular integrated operator with its own vehicle fleet

✓ Railway construction work providers







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KST GmbH - Kamera & System Technik

Hugo-Küttner-Str. 1a, 01796 Pirna, Saxony, Germany +49 3501 4673-30 info@kst-dresden.de https://www.kst-dresden.de/en/

Mr. Henning Gebel, *international technical sales* +49 3501 4673-37 h.gebel@kst-dresden.de

Founding Year 1999 / 16 employees

Core Competence:

stationary and mobile analogue or digital video solutions for rolling stock market

Products / Services:

✓ MOBILE CAMERAS

- analogue and digital supervision all around the train
- front facing CCTV, rear-view mirror, pantograph and indoor surveillance
- can be expanded to an analogue or digital CMS with SDI for low latency secure streams

✓ STATIONARY CAMERAS

• used for train station platform tracing, i.e., passengers-count and general security



customised according to the client's needs



Advantages:

"We manufacture specialised CMS for qualitative processing and reduce maintenance necessity."

- ✓ designed and manufactured in Saxony, Germany
- ✓ customized analogue or digital solutions with long time availability v
- ✓ tough sapphire and smart nano-coated glass-treatment (i.e., for high-speed trains and rough environments)
- ✓ automatic heating and/or cooling systems
- ✓ additional case protection and tough materials
- ✓ all products can be modified according to customer needs





Business Partner Research in Belgium:

- ✓ system integrators
- √ vehicle manufacturers
- √ distribution partners / representatives





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RAILONE GmbH

Dammstr. 5, 92318 Neumarkt in der Oberpfalz, Germany +49 9181 8952-0

Daniela Götz, Senior Strategic Sales Manager info@railone.com www.railone.com

Founding Year 1894/300 employees in Germany, about 700 in total worldwide

Core Competence:

✓ Leader for more than 70 years in the development of high-quality concrete track and turnout sleepers.

Products / Services:

✓ Custom Track Solutions:

- Concrete sleepers: Specialized manufacturing for urban transit and long-distance rail transportation.
- Slab Track systems: Tailored solutions for diverse railway needs, including heavy haul and high-speed lines.
- Consultation services: Comprehensive technical consultation to develop the ideal system for each project.
- Customized systems: Development of solutions based on customer specifications for new routes or existing infrastructure.

✓ Engineering & Plant Construction:

- Expertise in engineering: Solutions for both new and existing rail projects.
- Plant construction: Providing specialized infrastructure development and expertise
- International presence: Global production facilities in countries such as Germany, Hungary, Spain, Saudi Arabia, South Korea, and the United States.

✓ Maintenance & Upgrades:

- Low-maintenance systems: Solutions designed to be durable and easy to maintain.
- Adaptation of existing infrastructure: Products designed to upgrade tracks without interrupting normal
 operations.
- Long-distance & heavy-haul solutions: Tailored for freight and long-distance transport.

Advantages:

"SOLUTIONS YOUR WAY"

- ✓ 100+ years in railway industry: Longstanding knowledge and involvement in track system development.
- ✓ 70+ years of leadership: Innovation in the manufacturing of concrete sleepers and track systems.
- ✓ Proven industry leader: A strong reputation for sophisticated, long-lasting solutions.
- ✓ Made in Germany: High standard of quality with a focus on innovation.
- ✓ State-of-the-art technology: Products optimized for modern, heavy-load, and extreme conditions.
- ✓ High-speed track market leader: Recognized for excellence in the high-speed rail sector.
- ✓ Worldwide production facilities: Presence in key regions like Europe, Asia, and the Americas.
- ✓ Adaptation to local conditions: Solutions tailored to specific geographic, climatic, and normative conditions.
- ✓ Customer-driven innovations: Solutions customized to meet regional and project-specific needs.

Business Partner Research in Belgium:

- ✓ Railway infrastructure/Sales partner
- Storage facilities for sleepers (ideally with a siding)





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tracking-rail GmbH

Josefstraße 10, 51377 Leverkusen, Germany +49 (0)5121-675 46 06 Mr. Marc Stentenbach, CEO info@tracking-rail.de www.tracking-rail.de

Foundation Year 2015 / > 195 Employees

Core Competence:

✓ Craft company and technical service provider specializing in the rail and bus industry with railspecific certification.

Products / Services:

- ✓ Vehicle manufacturer: manufacturing, modification, commissioning and warranty specialist
- ✓ Vehicle owner: Refurbishment and renovation partner
- ✓ Vehicle Operator: Service and maintenance support
- ✓ Vehicle maintenance technician: inspection, maintenance and repair/troubleshooting supporter
- ✓ Supplier: Component manufacturer and installation specialist company in and on the vehicle
- ✓ Expertise/Assessment: Expert for vehicle condition assessment, value and accident reports as well as consulting
- ✓ Qualification: Training and further qualification offers in our own rail TRaining centre
- ✓ Infrastructure: railroad and building infrastructure technology (Signal boxes, signals, induction fuses, balises and switches)

Advantages:

"ON TRACK TO SUCCESS" we are the contact in Europe and worldwide for projects such as service, warranty, modernization, refurbishment, renovation, maintenance, commissioning, component production and consulting

- ✓ Advice about all the options you have in the current job market
- ✓ Highly qualified employees: tracking-rail is committed to the further training of experienced technicians and engineers
- ✓ The company stands for Future Mobility Innovative & Sustainable Mobility
- ✓ Certifications: ISO 9001 ff., SCC and SCP, ECM4 (Entity in Charge of Maintenance), ecovadis
- ✓ Assembly locations (worldwide): Belgium, Italy, Mexico, Netherlands, Austria, Poland, Saudi Arabia, Sweden, Switzerland, Spain, Czech Republic

Business Partner Research in Belgium:

- ✓ Rail Operators, manufacturer trains
- ✓ Logistics and freight transport companies
- ✓ Bus companies (in some cases)
- ✓ Managers of railway stations and infrastructure managers



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Varialux GmbH

Kleinwolmsdorfer Str. 16, 01477 Arnsdorf Germany +49 (0) 35200/27-200 Robert Richter, Sales/ Construction kontakt@varialux.de www.varialux.de

Founding Year 1936 / 65 employees

Core Competence:

✓ Development, production and sales in the area of railway equipment (lights and stop bars)

Products / Services:

✓ Production Capabilities:

- Manufacturing: Pressing, welding, turning, milling, sawing, grinding, punching, edging, gluing, surface finishing, soldering, plastering, bending.
- Prototype & Series Production: Using both manual and CNC machines for custom and high-volume production.
- Assembly & Coating: Assembly of products, wet/powder coating, and surface treatment for durability.

✓ Design & Development:

- Lighting Design: Expertise in the design and development of lighting solutions.
- Quotation Preparation: Providing detailed quotes for customer-specific requirements.
- Order Processing: Efficient handling of customer orders from initial contact to delivery.

Quality Management:

- ISO Certification: Works according to DIN EN ISO 9001:2015 for quality management.
- Quality Control: Focus on delivering durable quality through sophisticated designs.

Advantages:

"Our product portfolio includes object and special lights, special lights for rail vehicles, but also the restoration of historical lights."

- ✓ 50+ Years in Manufacturing: Over five decades of experience in lighting and special/medical technology.
- Depth of Production: Unrivalled production depth, from prototyping to full-scale manufacturing.
- ✓ Flexible Manufacturing: Manual and CNC capabilities allow for custom solutions in various industries.
- ✓ Adaptability: Willingness to take on new challenges, ensuring solutions are tailored to customer requirements.
- ✓ Sophisticated Designs: Durable, high-quality products designed for easy handling and long-term use.
- ✓ Partnership Approach: Focus on building strong, collaborative relationships with customers.

Business Partner Research in Belgium:

- ✓ Rail operators
- ✓ Railway suppliers
- **✓** Vehicle manufacturers







W.S. Werkstoff Service GmbH

Katernberger Str. 107, 45327 Essen Germany +49 201 316844-0 Michael Unger, Vertrieb info@werkstoff-service.de www.werkstoff-service.de

Founding Year 2007 / 35 employees

Core Competence:

√ Testing services, consulting and inspection services in the field of materials testing and materials technology

Products / Services:

✓ Materials Technology & Testing:

- Materials Expertise: Specialization in materials technology, heat treatment, and metallography.
- Accredited Testing Laboratories: ISO/IEC 17025 accreditation for comprehensive materials testing.
- Inspection Centre: Accredited under ISO/IEC 17020 for certified inspection services, damage analyses and preparation expert reports.

✓ Industrial Railway Services:

- Wheelset Testing: Semi-automatic ultrasonic phased array system for freight wagon wheelsets.
- Preparation of test instructions and test plans
- Certification of workshops for maintenance according to DIN 27201-7.
- Special investigations for product and process developments.

✓ Consulting & Training:

- Expert Advisory: Consultancy services at the Zollverein Future Centre for materials and testing technology.
- Training Programs: Certified training in materials technology and non-destructive testing.
- Industry Collaboration: Providing guidance in the industrial railway sector with an emphasis on continuous development.

Advantages:

"We have extensive expertise in materials technology, materials testing, heat treatment and metallography. We are accredited as an inspection body ISO/IEC 17020 and as a test laboratory ISO/IEC 17025."

- ✓ Global Reach: Orders and inquiries from across the world, offering international expertise.
- ✓ Innovative Solutions: Expertise in both traditional and modern materials testing and technology.
- ✓ Compliance with Industry Standards: Adherence to VPI-EMG09, DIN 27201-7, and DIN EN 16910 requirements.
- ✓ Efficiency & Precision: Reduction in testing times, improved detection accuracy, and reproducible results.
- ✓ Automated Documentation: Automatic recording and documentation of test results for efficiency and compliance.

Business Partner Research in Belgium:

- Rail operators
- ✓ Public transport companies
- **✓ Vehicle manufacturers**
- ✓ Railway workshops







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Wagner Rail GmbH

Hans-Pinselstraße 9b, 85540 Haar Germany +49 511 97 383 – 0 Dr. Isabelle Vinage, Sales Manager info@wagnergroup.com www.wagnergroup.com

Founding Year Wagner Group 1976 / 35 employees (Wagner Rail GmbH)

Core Competence:

✓ Fire protection as a holistic solution. Pioneering. Worldwide.

Products / Services:

✓ Fire Protection Solutions:

- Early Fire Detection: TITANUS® system detecting early fire signs (smoke).
- Automatic Fire Extinguishing: Water mist, gas, and aerosol extinguishing systems.
- Customised Solutions: Tailored fire protection based on customer needs and specific applications.

✓ Project Support and Management:

- Planning & Project Management: Full-service project management from design to implementation.
- Training: Providing system training to ensure proper use and maintenance.
- System Commissioning: On-site setup and activation of fire protection systems.

✓ Risk Analysis and Consultation:

- Risk Analysis: Identifying fire risks specific to the railway environment.
- Consultation: Developing custom fire protection strategies based on risk and protection goals.
- Expertise: Industry expertise in delivering tailored fire protection for rolling stock.

Advantages:

"Fire is what fuels us"

- ✓ Safe & Certified: Protects passengers, staff, and vehicles from fire-related dangers through compliance with international standards and guidelines (ISO 9001, IRIS certification underway).
- ✓ Reliable: Prevents damage caused by smoke, soot, and extinguishing water.
- ✓ Proven Success: TITANUS® system with 30,000 installations globally.
- ✓ Customised: Tailored solutions for diverse railway applications.
- ✓ Flexible: Systems that adapt to different fire protection needs.
- ✓ Scalable: Easily scalable solutions for both small and large applications.

Business Partner Research in Belgium:

- ✓ Local operators
- ✓ Service providers
- ✓ Consultants



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WINDHOFF Bahn- und Anlagentechnik GmbH

Hovestr. 10, 48431 Rheine Germany

+49 5971/58-0

Björn Janßen; Lasse Schulte-Farwig, Vertrieb

Schienenfahrzeugtechnik

Info@windhoff.de www.windhoff.de

Founding Year 1889 / 310 employees

Core Competence:

√ Global technology leader with over 130 years of innovation and experience in rail technology

Products / Services:

- Innovative Product Development:
 - Rail Vehicle Technology: Development, manufacturing and homologation acc. to TSI of efficient rail maintenance vehicles and track construction equipment.
 - **Modular Systems**: MPV® VentuS® modular system offering maximum flexibility and sustainability for mainline and light-rail.
 - Rail grinding vehicle: Preventive maintenance of tracks for better acoustic behavior and longer product lifetime.
- **Project Management & Service**
 - Planning & Project Supervision: Full support for complex vehicle projects to find the best-fitting solution for the customer based on a broad modular system that includes plenty of technologically proven modules.
 - **Life Cycle Support:** Providing solutions from development to maintenance and disposal. Services like spare parts, annually maintenance and accordingly are provided as well.
 - **Products "off-the-shelf":** Minimizing risks by strictly applying a modular design strategy.

Advantages:

"Windhoff stands for innovation, quality and reliability in the fields of rail vehicles and track construction technology. "

- Global Technology Leader: Over 130 years of innovation and experience in rail transport.
- Advanced Technology: Use of cutting-edge technologies for efficient operations.
- Modular Platforms: Flexible, modular systems like MPV® VentuS®.
- Maximised Efficiency: Modular design for optimal flexibility and sustainable operations.
- Sustainable Development: Focus on creating products that are eco-friendly and long-lasting.
- Environmental Management: Setting new standards for environmentally responsible infrastructure.
- Emission-Free Operations: Zero-emission travelling and working modes by applying cutting-edge technology.

Business Partner Research in Belgium:

- Rail & Infrastructure operators
- **Public transport companies**
- Infrastructure construction companies





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Deutsch-Belgisch-Luxemburgische Handelska
Belgisch-Luxemburgs-Duitse Kamer van Koopha
Chambre de Commerce Beloo-Luxemburgeoise



Witt Solutions GmbH

Dyrotzer Ring 3, 14641 Wustermark-Elstal Germany +49 33234 243-300 Sabine Gradischek, CFO info@werkstoff-service.de www.witt-solutions.de

Founding Year 1972 / 11-50 employees

Core Competence:

✓ Intelligent measurement technology for higher-level protection systems (DC)

Products / Services:

✓ Smart Measurement & Testing Solutions:

- Measurement Technology: Specialised in physical and electrical measurement variables.
- Medium-Voltage Networks: Focused on monitoring and qualifying DC medium-voltage systems.
- Modular System Structure: Flexible, modular systems designed and manufactured in-house.

✓ Autonomous & Expert Systems:

- Loweii System: Autonomous measurement technology combined with AI and ML components for energy optimisation.
- Miraculum Expert System: Data analysis system that provides insights, predictions, and evaluations on energy-saving potential and system health.
- Industry 4.0 Hardware Platform: 'WITT Bridge' enables integration between analogue and digital data.

✓ Customised Solutions & Research:

 Innovation & Customization: Focus on creating customer-specific solutions, particularly in energy optimisation for DC networks.

Advantages:

"Thanks to our modern measurement and testing systems, we take part to the digitalization of railway companies and are well-established in the sector of renewable energy."

- ✓ 50 Years in Measurement Technology: Expertise in developing smart, high-quality measurement solutions for over five decades.
- ✓ Global Presence: Products manufactured in Germany, used worldwide, including in direct current railways.
- ✓ AI and ML Integration: Miraculum system uses artificial intelligence and machine learning to optimize energy usage and predict system behavior.
- ✓ Holistic Energy Optimization: Loweii offers a new, innovative, and complete view of electrical infrastructure to improve efficiency.
- Active Participation in Research: Member of the European Assets4Rail project, researching new innovations in measurement technology.

Business Partner Research in Belgium:

- ✓ Rail operators
- ✓ Railway distributor
- **✓ Vehicle manufacturers**







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G. Zwiehoff GmbH

Tegernseestr. 15, 83022 Rosenheim, Germany +498031 23285 0 Elisabeth Schömer, Exec. Assistant to MD & International Sales

info@zwiehoff.com www.zwiehoff.com

Founding Year 1995/33 employees

Core Competence:

✓ One of the world leader in road-rail vehicle development

Products / Services:

- ✓ Vehicle Solutions:
 - **Road-rail vehicles** (multifunctional for road and rail)
 - Custom solutions (tailored to individual customer applications)
 - Maintenance-friendly vehicles (easy upkeep with eco-friendly design)
- ✓ Support & Advisory:
 - Advisory services (guidance on purchasing, renting, and leasing)
 - Worldwide service network (global support for customer mobility)
 - **Flexible purchasing options** (options for purchase, hire, or financing)
- **✓** Technology Integration:
 - **High-quality systems** (use of leading technology, such as Knorr braking systems)

Advantages:

"We are specialists for road/rail technology"

- ✓ **Safety and efficiency** (safe, efficient, and durable solutions)
- ✓ **Reliability** (enhanced by top-tier systems like Knorr braking systems)
- ✓ **Eco-friendly design** (vehicles built with sustainability in mind)
- ✓ **Low operating costs** (minimized expenses with high-quality systems)
- ✓ **Easy maintenance** (designed for low operational downtime)
- ✓ **Global mobility** (ensured by a worldwide service network)
- ✓ **Flexible purchasing options** (advisory on purchase, hire, or financing)

Business Partner Research in Belgium:

- Rail operators
- **✓** Contacts with Railway siding





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