



Trackside Power Solutions

Sécheron

Driving Rail Power through Heritage, Innovation and Reliability

From energy-efficient power conversion to secure digital solutions, discover Sécheron's latest technologies driving the future of rail electrification.

Sécheron is one of the world's leading suppliers of electrical and electronic safety components and traction power systems for the railway industry. With 147 years of Swiss engineering heritage and a long-standing commitment to safety, reliability and innovation, we bring extensive experience and a customer-centric approach to shaping a cleaner future powered by emission-free mobility and abundant renewable energy. The company's core values revolve around determination, enthusiasm, esteem and sustainability.

Our deep domain knowledge in rail electrification combined with continuous innovation allows us to design and deliver best-in-class solutions and services, providing protection for people and equipment, and ensuring efficient rail operations worldwide. Trusted by leading rail operators and system integrators across the globe, we power mobility and drive electrification.

Power Conversion

Railways require a significant amount of energy to power vehicles and infrastructure, and rail operators seek to improve energy efficiency, reduce the environmental impact of their networks, and optimise lifecycle costs. Power conversion is playing an increasingly important role in addressing these challenges.

Leveraging decades of expertise in power electronics, we develop a comprehensive range of power conversion solutions, including rectifiers, inverters and fully reversible converters. By converting and managing electrical energy efficiently, these technologies help maximise the long-term operational performance and sustainability of rail electrification systems.

A key application is regenerative energy recovery: instead of dissipating braking energy as heat, our converters either feed it back into the power grid, or store and reuse it to power other vehicles within the traction network. By implementing our IGBT inverter system, the Agra Metro (in India) achieved annual energy savings of approximately ₹5 million with a payback period of less than five years. This demonstrates the tangible value of our approach and sets a strong example for other metro projects across India and around the world.

We also support the reduction of diesel usage by contributing to the deployment of battery-powered trains through high-power charging converters that efficiently transform grid power



into the energy required for recharging during scheduled station stops. In Denmark, our rail charging converter architecture is already enabling battery-electric trains to operate on non-electrified lines, offering a cost-effective alternative to full network electrification while supporting the transition towards cleaner regional rail transport.

AC Electrification

Complementing our railway electrification offering, we cover all key equipment applied in AC distribution. We deliver tailor-made solutions based on modular concepts and standard products, integrating vacuum circuit breaker technology, earthing switches, measuring transformers, etc. Our equipment is engineered and produced in accordance with proven design principles and acceptance standards.

As a long-lasting leader in manufacturing AC vacuum circuit breakers for rolling stock applications, we also offer products for the electrification of AC systems – from outdoor railway solutions with our ORS vacuum circuit breaker and our SKID-mounted switchgear, supported by extensive factory testing and ensuring high reliability and performance – to our indoor and environmentally friendly (SF6-free) air-insulated metal-clad switchgear MCS, intended to feed the overhead line and usually placed trackside, in a substation or in a container.

After-Sales Services & Digital Solutions

We are not only an equipment manufacturer, but also a flexible and reliable partner for all after-sales-related questions. We support your business and ensure project continuity through a comprehensive range of services, including spare parts and obsolescence management, repairs and calibrations, modernisation and retrofitting, maintenance contracts, technical support, training, as well as digital services.

Our latest digital solution, the IOMS (Intelligent Operation & Maintenance System), is a smart and efficient software for optimising maintenance costs, predicting equipment wear and enhancing operational performance; it enables rapid response during emergencies and contributes to reduced operational expenditure (OPEX). By delivering precise operational insights, it improves equipment maintainability and reliability throughout the entire



lifecycle, maximising uptime and streamlining energy management in demanding rail environments.

Cybersecurity

All our AC and DC traction power systems are developed in accordance with cybersecurity best practices. This commitment is deeply embedded in Sécheron's corporate culture.

From design to delivery, cybersecurity lives in every step we take. Our company is ISO/IEC 27001 certified. Our key products – particularly our renowned control & protection relays SEPCOS – are cyber-certified and compliant with the IEC 62443 standard. This guarantees seamless security and the highest level of protection for our customers and their installations.

Sécheron at InnoTrans 2026

Visit us at InnoTrans from 22 to 25 September 2026 in Berlin, Germany, and meet our experts at **Booth 240, Hall 9**, to discover how our solutions can support safer, smarter and more sustainable rail networks!

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