



Compact, lightweight and reliable
Traction transformers for rolling stock

ABB, the world's leading independent supplier

ABB is the world's leading independent supplier of traction transformers for railway rolling stock.

Building on a worldwide presence and proven track record, ABB offers a wealth of experience in the rail industry. With a global network of strong local resources, ABB supports railway operators, contractors, and OEMs with the expertise they need for their rail projects.

ABB is continually pushing the boundaries of design to new limits in order to excel in the crucial performance areas of compactness, low weight and reliability in single and multiphase systems.

World leader in transformer technology

ABB has manufactured several thousand traction transformers currently in operation worldwide in all types of rail electrification systems, and is honored to be working in close proximity to all the prestigious names in the rail industry.

Today, ABB is the global leader in transformer technology, with a global market share more than double that of its nearest competitor and an innovation track record that is second to none. For instance, ABB power and distribution transformers are found in power plants and substations, skyscrapers and shopping malls, ships and oil platforms, locomotives and railway lines, wind parks and solar power fields, water and wastewater treatment plants.

Tailor-made solutions

ABB traction transformers have accumulated massive running hours worldwide. Characterized by their modular design, ABB traction transformers provide a competitive edge in the key operating areas of size, weight and reliability.

Our comprehensive range of traction transformers covers:

- Single to multiphase systems (AC only, AC/DC, diesel/AC, 16.7 Hz, 25 Hz, 50 Hz, 60 Hz)
- Inductors
- Power range (up to 10 MVA for locomotives and EMUs)
- Mounting positions: roof, underframe, machine room
- Auxiliaries: pumps, pipes, cooling system, etc.

Suitable for all applications

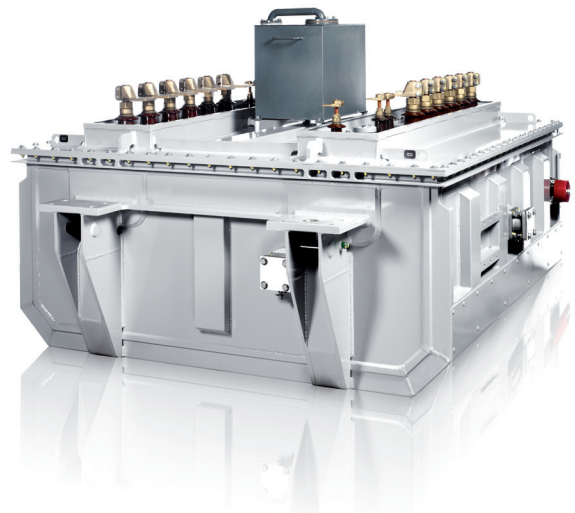
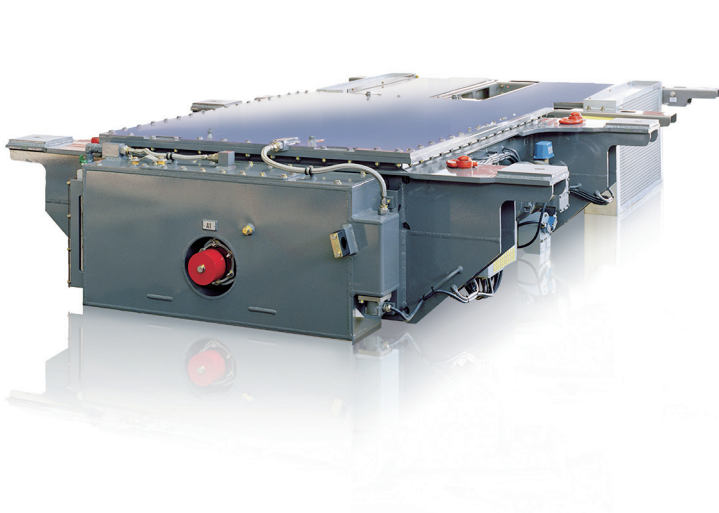
ABB traction transformers meet the challenges posed by the physical and operating constraints of the trainset's environment, and the customer's requirements for fast acceleration, low noise emissions, passenger comfort, and use on cross-border networks.

Innovation is of paramount importance to our engineering teams. ABB provides optimized, cutting-edge solutions for all applications: high speed and very high speed, regional, locomotive, tram-train, AC metro.

Global footprint and an efficient customer service

Present in more than 100 countries, ABB has a truly global and comprehensive support network, providing 24/7 assistance and service all over the world. Our customers can rely on 30 centers of transformer expertise and draw on the knowledge of some 1,000 experts.

Our TransForLife Solutions™ service concept is a proven and widely used service package that meets customer requirements for individual traction transformers or an entire fleet, all in accordance with international standards. ABB customers benefit from more cost-effective maintenance schemes and faster access to spare parts.



A deep customer understanding



High-performance traction solutions

ABB uses its vast technical experience to design traction transformers that continually set new performance benchmarks in terms of compactness, low weight and reliability. Using the latest simultaneous engineering technologies (3D design, finite element analysis), ABB produces both plug-and-play and cost-optimized solutions with the most competitive rates in terms of lifecycle costs and mean time between failures.

Strong commitment to customer satisfaction

ABB responds quickly and innovatively to customer requirements. Our customer-oriented sales teams and direct channels of communication focus on creating long-term relationships with our customers and responding promptly with immediate expert input. ABB is also renowned for its dedication to energy efficiency, environmentally friendly solutions and its commitment for a greener world.

Contact us

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ABB traction transformers are IRIS certified. This certification, such as the ISO14001 and the OHSAS 18001, demonstrate our capacity to meet the needs of our clients in the dynamic and challenging rail market.