Engineering adapted to projects

CAF Power & Automation, an expert in railway traction converters, offers in each product the most innovative technology customised to the needs of the client. A strong base in research and development of new solutions brings added value to our clients in every continent.

CAF Power & Automation has developed traction converters for:

MULTI - SYSTEM LOCOMOTIVES
DIESEL ELECTRIC LOCOMOTIVES

Our converters are compact and modular allowing the integration of auxiliary converter and the battery charger if required, as well as easy access to components and low maintenance.

Solutions

The good maintenance and modernization of railway systems can prolong the estimated service lifetime of a fleet while adapting to new town/city planning needs and environmental requirements, and offering users greater comfort during their journeys.

CAF Power & Automation shapes the needs of each customer when we upgrade their equipment by optimizing the service lifetime of each locomotive. Our services cover different areas:
**Traction Converter for Electric Locomotive**

**Electrical Co-Co locomotive:**
- Power: 6,000 HP
- Voltage: 25 kV AC 50 HZ
- Speed: 100 km/h
- Weight: 123 Tn (20.5 Tn/axle)

**Traction Solution Characteristics:**
- Power: 2,250 kW (x2)
- Motor: 850 kW AC (x6)
- Liquid Cooling

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**Traction Converter for Diesel Electric Locomotive**

**Diesel-Electrical Co-Co locomotive:**
- Diesel Engine Power: 3,000 HP
- Speed: 90 km/h
- Weight: 114 Tn (19 Tn/axle)

**Traction Solution Characteristics:**
- Power: 2,600 kW
- Motor: 400 kW AC (x6)
- Forced Air Cooling

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**Traction Converter For Multi-System Locomotive**

**Multi-System Bo-Bo Locomotive:**
- Power: 7,200 HP
- Voltage: 3,000 VDC // 1,500 VDC
- Speed: 220 km/h
- Weight: 88 Tn (22Tn/axle)

**Traction Solution Characteristics:**
- Power: 5,400 kW
- Motor: 1,250 kW AC (x4)
- Liquid Cooling