

# Traction converters



## 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**

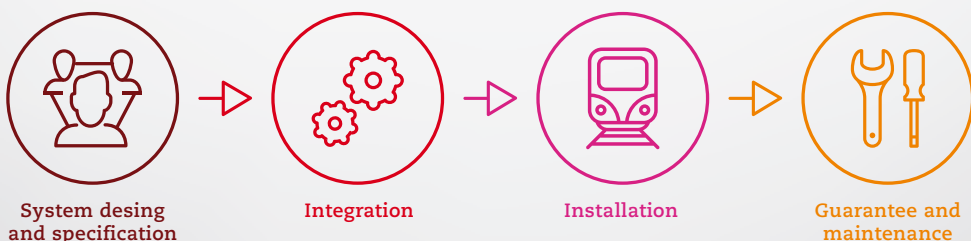
**DIESEL ELECTRIC LOCOMOTIVES**

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



## 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



## 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

