



EURO6000 ELECTRIC LOCOMOTIVE

Carbon-free operations

The EURO6000 is an electric multi-system Co'Co' locomotive that belongs to the EURODUAL family and can run on 1.5 kV DC, 3kV DC and 25 kV AC overhead lines at speeds up to 120 km/h (optionally up to 160 km/h). Its design, based on in-service proven components from first class suppliers, and its high level of equipment redundancy ensure high reliability. Available in Iberian (1,668 mm) and standard gauge (1,435 mm), the locomotives can be fitted with "universal" bogies that allow the easy change of wheelsets in a workshop. The EURO6000s feature a compact design, lightweight monocoque structure, AC/AC transmission system, six motorized wheelsets as well as a state-of-the-art adhesion control system. With an output exceeding 6 MW and a tractive effort of up to 500 kN, they are characterised by their high performance, which, in many cases, enables the transport of longer and heavier trains with a single locomotive. They also offer excellent comfort, safety and visibility for drivers. Featuring cutting-edge technology that exceeds TSI requirements, the EURO6000 locomotives offer rail operators high hauling capacity, low energy consumption, reduced LCC and promote a carbon-free rail freight transport.

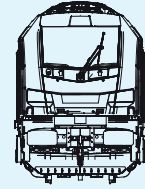
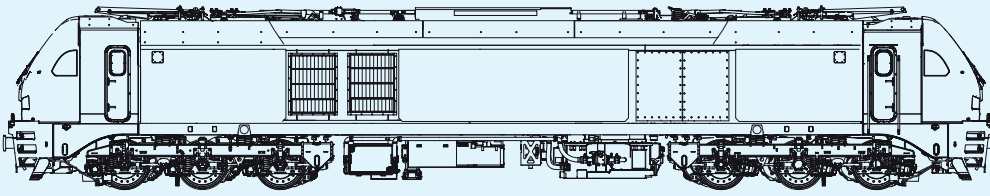
www.stadlerrail.com

Stadler Rail Group

Ernst-Stadler-Strasse 1
CH-9565 Bussnang
Phone +41 71 626 21 20
stadler.rail@stadlerrail.com

Stadler Rail Valencia S.A.

Pol. Ind. Mediterráneo. Mitjera 6
E-46550 Albuixech (Valencia)
Phone +34 96 141 50 00
stadler.valencia@stadlerrail.com



Technical features

Technology

- Applications: freight and optionally passenger transport
- Based on proven models such as the EURO DUAL locomotive
- High starting and continuous tractive effort
- Highly efficient AC traction system with IGBT. One inverter per axle for improved adhesion performance
- High-performance electric brake with energy recovery
- Latest 3-axle bogie technology: high adhesion, low track forces
- Lightweight monocoque structure made of carbon steel, high strength steel and oxidation-resistant steel
- Cross-border operations. ETCS equipped with various country packages

Comfort / Personnel

- Two driver's cabs with HVAC and universal central desk designed according to safety and ergonomic criteria
- High cab comfort, safety and visibility, beyond TSI requirements
- Full cab insulation

Reliability / Availability / Maintainability / Safety

- Reduced operation and maintenance costs
- Reliable operations: high level of in-built redundancy and in-service proven components from first class suppliers
- Designed to minimise downtimes and costs during maintenance tasks
- Latest generation of vehicle control system including advanced remote diagnosis system
- TSI compliant
- LED lighting

Vehicle data

Locomotive type	Electric MS	
Axle arrangement	Co'Co'	
Track gauge	1 435 mm	1 668 mm
Operation area	1) ES/FR/LU/BE	2) ES 3) ES/PT
Transmission	AC/AC	
Electric power supply	25 kV AC + 1.5 kV DC + 3 kV DC	
Power at wheel rim	6 170 kW @ 25 kV AC 6 170 kW @ 3 kV DC 4 100 kW @ 1.5 kV DC	
Maximum speed	120 km/h (designed for up to 160 km/h)	
Starting tractive effort	500 kN	
Continuous tractive effort	430 kN	
Brake system	Pneumatic brake Dynamic: regenerative / rheostatic	
Suspension	Primary: coil springs Secondary: rubber-metal springs Vertical and horizontal dampers	