



EURO4001 DIESEL- ELECTRIC LOCOMOTIVE

High performance and operational flexibility

The EURO4001 is the pure diesel version of the EURODUAL family. A Co'Co' locomotive used for freight and, optionally for passenger transport, at speeds up to 120 km/h. Its design, based on in-service proven components from first class suppliers, and its high level of equipment redundancy ensure high reliability. Powerful and greener, the EURO4001 locomotives feature state-of-the-art diesel engines. They meet the latest exhaust gas emission regulations (EU Stage V), thus significantly lowering the emissions of polluting gases. They are able to use HVO fuel supporting the decarbonisation of the transport sector. The EURO4001 are available in Iberian (1,668 mm) and standard gauge (1,435 mm), and in several country configurations. They can be fitted with "universal" bogies that allow the easy change of wheelsets in a workshop. As a successor to the successful EURO4000 locomotive, the EURO4001 has inherited incredible performance, versatility and reliability.

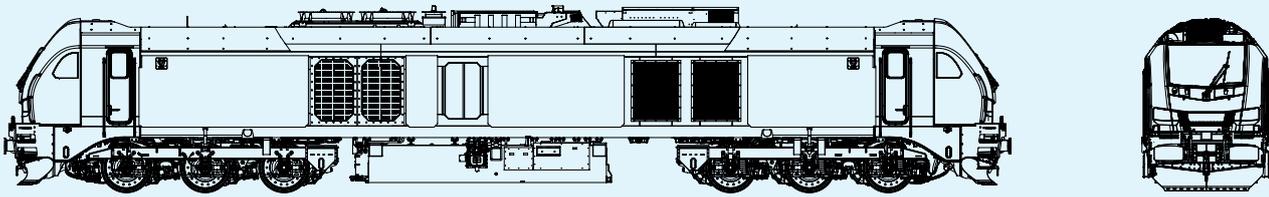
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Technical features

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 high-strength low-alloyed steel
- Cross-border operations. ETCS equipped with various country packages
- Low-emission Stage V engine approved for 100% EN15940-compliant HVO operation

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	Diesel - Electric	
Axle arrangement	Co'Co'	
Track gauge	1 435 mm	1 668 mm
Operation area	1) ES/FR	3) ES
	2) UY	
Transmission	AC/AC	
Diesel engine	CAT C175-16, Stage V	
Diesel engine power	up to 3 000 kW	
Fuel tank	up to 6 500 l	
Urea tank	up to 800 l	
Starting tractive effort	500 kN	
Continuous tractive effort	430 kN	
Maximum speed	120 km/h	
Brake system	Pneumatic brake	
	Dynamic brake: Rheostatic	
Suspension	Primary: coil springs	
	Secondary: rubber-metal springs	
	Vertical and horizontal dampers	