



EURO DuFour

SBB Cargo, Switzerland

In September 2024, SBB Cargo Switzerland became the launch customer for the new EURO DuFour and signed a framework agreement with Stadler for up to 129 locomotives, including an initial batch of 36 units.

The contract covers both electric locomotives and hybrid variants with battery modules, establishing the foundation for a future-proof, flexible and sustainable fleet strategy for SBB Cargo Switzerland in European rail freight. The initial configuration is designed for operation in Switzerland, Germany and Austria and can be extended to additional countries in the future.

The EURO DuFour is a true game changer, setting new standards in performance and efficiency. Equipped with state-of-the-art technology, it delivers high tractive effort and reliable operations. The ergonomic driver's cab, featuring intuitive controls, touch screens and excellent all-round visibility, ensures maximum comfort and safety. Thanks to its energy-efficient operation, regenerative braking system and optional battery solution, it also excels in sustainability. It is approved for operation on C2, C3 and C4 lines, offering outstanding operational flexibility. Lower infrastructure, maintenance and energy costs – thanks to its high efficiency – result in significantly reduced operating costs and high cost-effectiveness.

Stadler Rail Valencia S.A.U.

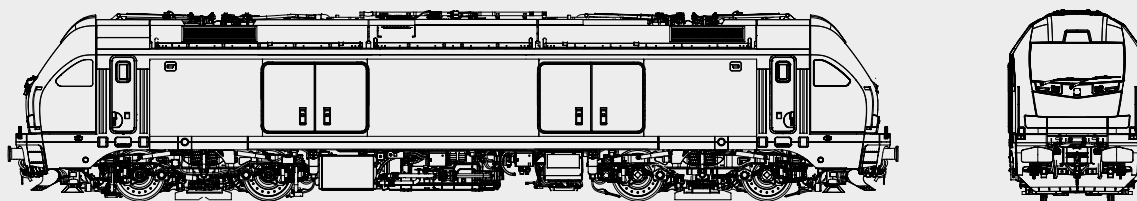
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STADLER



Technical features

Technology

- Applications: freight and passenger transport
- Based on subsystems and components from proven models
- High-efficiency: tri-level inverter technology
- High starting and continuous tractive effort
- High-performance electric brake with energy recovery
- Lightweight monocoque structure made of high-strength low-alloy steel
- Available in hybrid versions
- Ready for hybrid and digital automatic coupler (DAC)
- Access to C2/C3/C4 lines
- Equipped with a Radio Remote Control System

Personnel

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

Reliability/Availability/Maintainability/Safety

- Compliant with the latest TSI
- Ready for condition based maintenance (CBM) and future FRMCS
- Reliable subsystems and high level of in-built redundancy
- Designed to minimize downtimes during maintenance activities

Vehicle data

Customer	SBB Cargo Switzerland
Region	CH / DE / AT
Number of locomotives	up to 129
Commissioning	2027
Locomotive Type	Electric MS Hybrid-mode: E + Batt
Axle arrangement	Bo'Bo'
Track gauge	1,435 mm
Starting tractive effort	350 kN
Maximum speed	160 km/h
Electric energy supply	25 kV 50 Hz AC + 15 kV 16.7 Hz AC (incl. 11 kV 16.7 Hz AC)
Power	E: up to 7 MW Batt: 600 kW
Brake system	Pneumatic (G-P-R) Electric: regenerative / rheostatic
Suspension	Primary: Coil springs and self-steering system Secondary: Coil springs Lateral, vertical and yaw dampers