



EURODUAL LOCOMOTIVE

European Loc Pool AG, Switzerland

European Loc Pool AG (ELP) acquired its first batch of ten EURODUAL locomotives in August 2018. Eight of them will be operated in Germany and two in Norway and Sweden. In May 2019, ELP expanded its fleet signing a framework agreement with Stadler for 100 Co'Co' locomotives in various configurations. ELP intends to lease the powerful locomotives to freight rail operators. The versatile machines can run on AC electrified lines (15 kV 16.7 Hz and 25 kV 50 Hz) rated at 6,150 kW. They feature a powerful diesel engine for non-electrified lines. The locomotives for Scandinavia have been designed for temperatures as low as -40°C and include a winterisation package for reliable operations in extreme weather conditions with snow and ice. On many EU freight corridors, a single Co'Co'-hybrid locomotive can replace two Bo'Bo' locomotives with double-traction composition. The latest bogie technology results in lower wear and tear on the infrastructure and reduced track access costs.

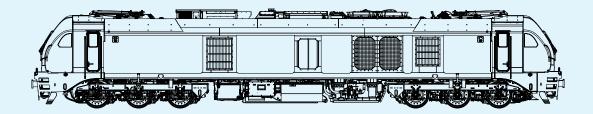
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Stadler Rail Group

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Technical features

Technology

- Based on subsystems and components from proven models such the EURO4000 and EUROLIGHT
- Application: rail freight operations
- AC traction system with IGBT, one inverter per axle
- High starting and continuous tractive effort
- State-of-the-art adhesion control system
- Extremely low track forces (best non-self steering bogie)
- Monocoque structure made of carbon steel, high strength steel and oxidation-resistant steel (copper steel)
- Equipped with ETCS BL3 and PZB for Germany or ATC2 for Scandinavia

Personnel

- Two ergonomically designed driver's cabs with HVAC system
- High cab comfort and visibility beyond TSI requirements
- Full cab isolation

Reliability / Availability / Maintainability / Safety

- Reduced operation costs
- Decreased environmental footprint
- EC 26/2004 Stage IIIB and Stage V compliant
- TSI compliant
- Equipped with remote diagnostic system (TWC), remote control and cameras
- Winterization package for locomotives being used in Scandinavia

Vehicle data

Customer	ELP
Region	Germany, Norway, Sweden
Commissioning	2020
Locomotive type	Dual-mode:
	Electric/Diesel-electric
Track gauge	1435 mm
Axle arrangement	Co'Co'
Electric energy supply	15 kV 16,7 Hz + 25 kV 50 Hz
Diesel engine	CAT C175-16
Diesel engine power	2800 kW
Electric power at wheel rim	6150 kW
Transmission	AC/AC
Starting tractive effort	500 kN
Fuel tank	3500 l
Ureatank	400 l
Maximum speed	120 km/h
Brake system	Mechaninc: pneumatic
	Dynamic: regenerative/
	rheostatic
	Bail Off functionality
Suspension	Primary: coil springs
	Secondary: rubber metal
	Vertical and horizontal dampers