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 on electric mode. They feature a powerful diesel IIIIB 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.
Technical features

Technology
- Based on subsystems and components from proven models such as 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
- 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 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 and 25 kV 50 Hz
Diesel engine | CAT C175-16, IIIB
Diesel engine power | 2800 kW
Electric power at wheel rim | 6150 kW
Transmission | AC/AC
Starting tractive effort | 500 kN
Fuel tank | 3500 l
Urea tank | 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