



SALi DIESEL-ELECTRIC LOCOMOTIVE

New benchmark for South America

SALi (South American Light Loco) is a diesel-electric locomotive type Co'Co' with an ultra light-weight design and with forefront technology to successfully face the challenges entailed in operating on metre-gauge track under conditions of great altitude (over 5,000 metres above sea-level) and capable of reaching a speed of 100km/h, combining a high-power output at great altitude with reduced fuel consumption. The weight of the locomotive can vary between 16 and 20 tons per axle. It features 6 AC traction motors and two acoustic and heat-insulated driver's cabs, to enhance comfort under extreme temperature conditions. Due to its design and performance, SALi is destined to become the benchmark locomotive of the Bioceanic Rail Integration Corridor which, crossing Bolivia, will link the Peruvian port of Ilo with the port of Santos, near Sao Paulo in Brazil.

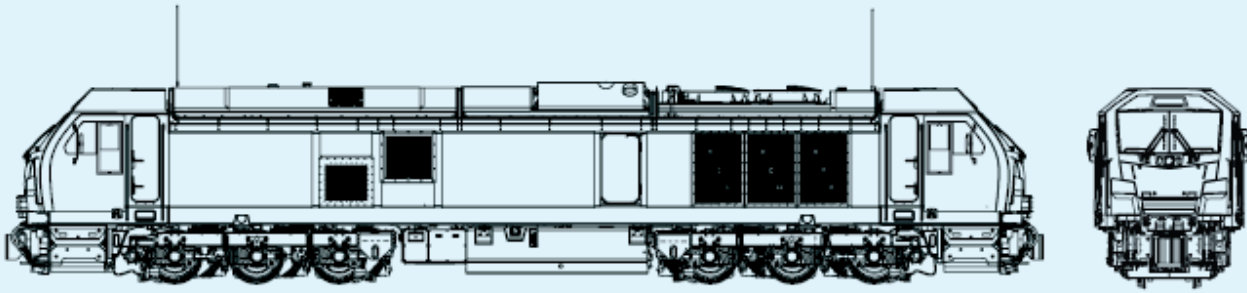
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Technical features

Technology

- Based on proven models such as the EURO4000, UKLIGHT and EURODUAL.
- Suitable for operations at high altitude (over 5,000 m above sea level)
- Freight applications
- Monocoque light structure made of carbon steel, high strength steel and oxidation-resistant steel
- AC traction system with IGBT
- 6 traction motors: Nose suspended
- State-of-the-art adhesion control system
- Able to operate in simple or multiple unit (up to 3 locomotives)

Comfort / Personnel

- Two acoustic and heat-insulated driver's cabs with air conditioning.
- Ergonomically designed driver's desk
- Adjustable driver and assistant seats
- Lighting of the engine room with incandescent or fluorescent or LED lamps

Reliability / Availability / Maintainability / Safety

- Reduced operation costs
- Impressive visibility from driver's desk
- Energy absorption system in the front
- Outdoor lighting with LED multifunction headlights

Vehicle data

Locomotive type	Diesel-electric
Track gauge	1,000 mm / 1,067 mm / 1,435 mm 1,676 mm
Axle arrangement	Co' Co'
Axle load	16-20 ton/eje
Power	1500-2400 kW
Diesel engine	CUMMINS
Transmission	AC/AC
Maximum speed	100 km/h
Starting tractive effort	415 kN
Coupling	AAR
Fuel tank	Up to 6,000 l
Brake system	Pneumatic y electric
Suspension	Primary: Coil springs Secondary: Rubber metal