



UKDUAL LOCOMOTIVE

BRLL to be used by DRS, United Kingdom

Beacon Rail Leasing Limited (BRLL) ordered 10 UKDUAL locomotives in August 2013 to be used by British operator Direct Rail Services (DRS) for both passenger and freight services.

This locomotive – named Class 88 in the United Kingdom – is a dual-mode locomotive that can run on electrified lines under 25 kV AC overhead catenary with a power at rail of up to 4000 kW, but also has a diesel engine to run on non-electrified lines. It is a four-axle locomotive adapted to UK loading gauges, with AC/AC transmission and low axle load. It fully complies with all European standards regarding safety, emissions and environmental protection and with British regulations. The UKDUAL locomotive offers excellent flexibility to rail operators since the units can be operated on main lines as well as on secondary lines.

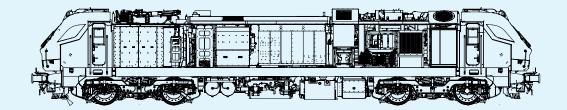
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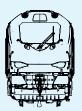
Stadler Rail Group

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Technical features

Technology

- Based on the UKLIGHT locomotive
- Multipurpose locomotive for passenger and freight applications
- Adapted to UK gauges and regulations
- Caterpillar diesel engine C27 Stage IIB
- Electrical transmission manufacturer: ABB
- AC traction system with IGBT
- Traction motors: Frame mounted
- Monocoque structure made of carbon steel, high strength steel and oxidation-resistant steel (copper steel)
- Disc brakes
- Decreased environmental footprint
- Able to operate in multiple unit

Personnel

- Two ergonomically designed driver's cabs with air conditioning

Reliability / Availability / Maintainability / Safety

- Reduced operation costs
- TSI-compliant
- State-of-the-art adhesion control system

Vehicle data

Customer	BRLL/DRS
Region	United Kingdom
Number of vehicles	10
Commissioning	2017
Locomotive type	Dual-mode: electric/
	diesel-electric
Track gauge	1435 mm
Axle arrangement	Bo'Bo'
Power	E: 4000 kW
	D: 708 kW
Overhead line	25 kV AC
Diesel engine	CAT C27
Transmission	AC/AC
Starting tractive effort	317 kN
Coupler	UIC 520
Maximum speed	160 km/h
Brake system	Mechanic: Pneumatic
	Dynamic: Regenerative/
	rheostatic
Suspension	Primary: Coil springs
	Secondary: Coil springs. Vertical
	and horizontal dampers