



CBD90 TONNE HYBRID SHUNTING LOCOMOTIVE



TECHNICAL DATA

Maximum Operating Speed (settable)	30 km/h
Minimum operating horizontal track curve	60 m
Track Gauge	1,435 mm
Weight in service condition	90,000 kg
Maximum tractive effort @ 30% adhesion	27,000 kg
Nominal temperature	-20° + 45° C
Battery Voltage	600 V _{DC}
Battery Capacity	450 kWh
Motor Power (continuous)	200 kW
Number of Motors	4
Engine Power	55 kW
Number of Engines	1
Fuel Specification	EN 590
Length over frame	12,130 mm
Overall width over frame	2,850 mm
Height above rail	4,055 mm
Bogie Wheelbase	1,800 mm
Bogie Centre	5,300 mm
Wheel configuration	BoBo
Track clearance buffer beam (new tyres)	120 mm
Wheel diameter (new tyres)	840 mm

PRODUCT FEATURES

The CLAYTON CBD90 tonne Hybrid locomotive has a bogied frame construction; each bogie housing two traction motors providing a four-wheel drive/brake arrangement.

The locomotive has a total continuous tractive power of 800 kW ASL, each traction motor delivering a continuous 200 kW providing power to the final drive reduction gearboxes. Motor electrical power is provided from two 600V_{DC} traction batteries. Battery charging is via one 55 kW stage 5 diesel engines directly coupled to a generator.

The locomotive is equipped with electronic motor control delivering a continuous rated power of 800 kW ASL with a peak power of 1,200 kW ASL.

PRODUCT OPTIONS

Battery Technology

- ⊗ Lithium
- ⊗ TTPL maintenance free fast charging
- ⊗ Lead Acid

Signalling

- ⊗ ECTS
- ⊗ TPS
- ⊗ KVB
- ⊗ TBL 1+
- ⊗ PZB

Productivity & Safety

- ⊗ LocoWatch™ system available
- ⊗ 100% Battery versions available
- ⊗ Radio control
- ⊗ Automation options
- ⊗ Anti-collision system
- ⊗ Various power options available