



TRAMLINK LOW-FLOOR LIGHTRAIL VEHICLE

EMTU Santos, Brazil

At the end of 2012, Empresa Metropolitana de Transportes Urbanos de São Paulo (EMTU) ordered 22 multi-articulated 100% low-floor light rail vehicles of the Tramlink type to be used in the metropolitan region of Baixada Santista (Brazil).

Each bidirectional 43.7-metre-long, 2.65-metre-wide LRV will accommodate up to 408 passengers, 74 of them seated. The vehicles are equipped with batteries for catenary-free operation on a section of the route in the city centre. They offer barrier-free passenger compartments with wide gangways, continuous low floors and several multifunctional areas.

Tramlink is a modern and modular multi-articulated 100% low-floor light rail vehicle adaptable to customers' needs and characterised by an innovative real-axle bogie that allows a quiet and comfortable ride and maximum seating capacity over the bogies (16 seats) without ramps or steps.

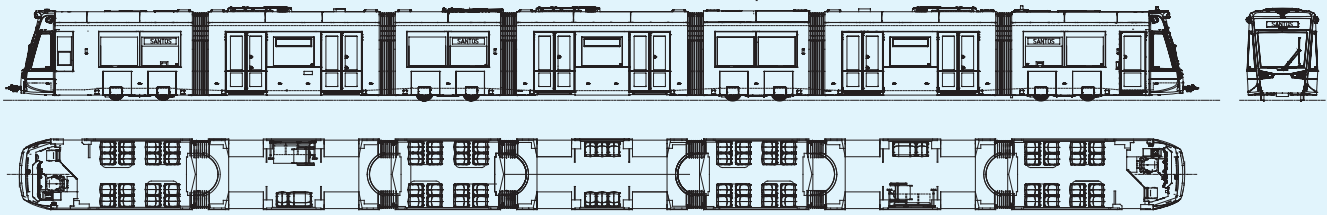
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Technical features

Technology

- Multi-articulated 7-car light rail vehicle
- Bidirectional
- Light structure made of high-strength stainless steel (duplex)
- Driving on multiple units of up to 2 vehicles
- Innovative bogie concept with real axles that allow maximum seating capacity
- Regenerative brake with storage energy systems
- Free catenary operation available

Comfort

- Barrier-free 100% low floor
- Bright, pleasant passenger compartment with scope for individual design
- Air-conditioned passenger area and driver's cab
- Multifunctional areas including 2 wheelchair spaces
- Advanced passenger information systems

Personnel

- Ergonomically designed driver's cab with great visibility for city operation

Reliability / Availability / Maintainability / Safety

- Fulfills crashworthiness standard EN15227
- CCTV system integrated in TCMS

Vehicle data

Customer	EMTU
Region	Baixada Santista, Brazil
Number of vehicles	22
Commissioning	2015
Track gauge	1435 mm
Energy supply	750 V DC
Axle arrangement	Bo'2'2'Bo'
Vehicle length	43700 mm
Vehicle width	2650 mm
Vehicle height	3560 mm
(folded pantograph)	
Entrance height	300 mm
Seats	74
Total capacity (6 pers./m²)	408
Doors	6 double doors per side
Wheel diameter	600 mm
Min. curve radius	25 m
Power traction motor	4 × 105 kW
Maximum speed	70 km/h