



TRAMLINK LOW FLOOR LIGHT RAIL VEHICLE

Ferrovie Luganesi SA, Lugano, Switzerland

In 2018, Ferrovie Luganesi SA (FLP) ordered 9 multi-articulated 100% low floor light rail vehicles of the Tramlink type to facilitate the communications between the city of Lugano and its neighborhood.

The bidirectional metre-gauge vehicles offer spacious, bright and barrier-free passenger compartments with wide gangways, continuous low floor and several multifunctional areas. The low entrance height and eight wide doors per side facilitate a fast flow of passengers. The 45.4 m long and 2.4 m wide light rail vehicles comply with extended crash requirements as per EN 15227 C-IV and C-III scenario III.

Tramlink is a modern and modular multi-articulated light rail vehicles characterized 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

- Bidirectional vehicle
- Lightweight structure made of high-strength stainless steel (duplex)
- Innovative bogie concept with real axles that allows a quiet and comfortable ride and maximum seating capacity
- Optimal use of the vehicle enveloping gauge

Comfort

- Barrier-free 100% low floor passenger compartment
- Bright, pleasant passenger area with scope for individual design
- Eight double sliding doors with sliding step per side for a fast flow of people
- Efficient HVAC system in passenger area and driver's cab
- Multifunctional areas including two wheelchair and four bicycle spaces
- Advanced passenger information system and surveillance CCTV system

Personnel

- Ergonomically designed driver's cab with great visibility for city operation
- Modern, screen-based vehicle control system
- Air-conditioned driver's cabs

Reliability / Availability / Maintainability / Safety

- Full structure EN 12663 P-IV and crash EN 15227 C-IV and C-III scenario III compliance
- Fire and smoke: EN45545/DIN5510 compliance
- Compliance with Swiss rail normative AB-EBV

Vehicle data

Customer	Ferrovie Luganesi SA (FLP)
Region	Lugano, Switzerland
Number of vehicles	9
Commissioning	2020
Track gauge	1,000 mm
Supply voltage	1,200 V CC
Axle arrangement	Bo' Bo' 2' Bo'
Seats	70
Standing capacity (4pers./m²)	228
Entrance height	360 mm
Length over coupling	45,420 mm
Vehicle width	2,400 mm
Vehicle height	3,560 mm
Doors	8 double doors per side
Wheel diameter	610 mm
Min. curve radius	20 m
Power traction motor	6 x 100 kW
Maximum speed	80 km/h