



reddot winner 2023

TRAMLINK LOW FLOOR LIGHT RAIL VEHICLE

Bernmobil, Switzerland

In December 2019, Bernmobil ordered 20 bidirectional and 7 unidirectional TRAMLINK vehicles from Stadler to serve the Swiss capital. On the one hand, these vehicles will replace the twelve Vevey and nine RBS trams, which will reach the end of their useful life between 2023 and 2025. On the other hand, they will be used for the extension of line 9 to Kleinwaben and a frequency increase of line 9. The contract includes options up to a total of 50 trams. The TRAMLINK Bern has won the Red Dot Design Award 2023.

The metre-gauge 100% low floor light rail vehicles are 42.5 m long and 2.3 m wide and provide capacity for around 260 passengers. The vehicles offer spacious, bright and barrier-free passenger compartments with wide gangways, continuous low floor and several multifunctional areas for wheelchairs, strollers and luggage. The exclusive interior design serves to ensure the comfort of the passengers and the crew.

TRAMLINK is a modern and modular multi-articulated light rail vehicle characterized by an innovative real-axle bogie that allows a quiet and comfortable ride and maximum seating capacity over the bogies, without ramps or steps.

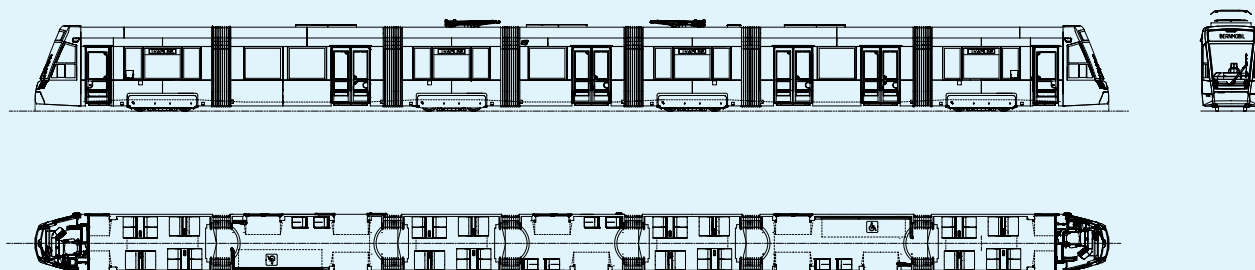
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Technical features

Technology

- Lightweight structure made of high-strength stainless steel (duplex)
- Optimized vehicle weight to maximize energy efficiency
- Innovative bogie concept with real axles that allows a quiet and comfortable ride and maximum seating capacity
- Low noise and vibration level

Comfort

- Barrier-free 100% low floor vehicle
- Doors with sliding step for gap-bridging at the stops, thus facilitating passenger entry and exit.
- Bright, pleasant passenger area with HVAC
- Two multifunctional areas for wheelchairs, strollers and luggage
- Advanced passenger information system
- Wooden passenger seats

Personnel

- Ergonomically designed driver's desk with a great visibility for urban operations
- Modern, screen-based vehicle control system
- Brake assistance system for collision avoidance
- Rearview cameras and video surveillance system of the doors
- Driver's cab with independent air conditioning

Reliability / Availability / Maintainability / Safety

- Efficient HVAC system: air conditioning by CO₂ measurement and heat pump system
- Full compliance with structural requirements EN 12663 P-IV and crash requirements EN 15227 C-IV

Vehicle data

Customer	Bernmobil	
Region	Bern , Switzerland	
Type of vehicle	one-way	bidirectional
Number of vehicles	7	20
Delivery	2023	
Track Gauge	1,000 mm	
Supply voltage	600/ 750 VDC	
Length over coupling	42,500 mm	
Vehicle width	2,300 mm	
Vehicle height	3,620 mm	
Entrance height	320 mm	
Seats	71	56
Capacity (4 pers./m²)	186	198
Doors	7	6 per side
Wheel diameter	600 mm	
Min. curve radius	16.5 m (on route)	
Power traction motor	6x105 kW	
Maximum speed	70 km/h	