



ELECTRIC DOUBLE-DECKER MULTIPLE UNIT KISS

WESTbahn Management GmbH, Austria

Since 2011, WESTbahn has been operating Intercity services between Vienna and Salzburg using KISS double-decker multiple units on an open-access basis. Thanks to the excellent availability of the trains, WESTbahn scores highly on punctuality against the competition and has seen a sharp rise in passenger numbers. WESTbahn ordered 15 additional formations from Stadler in October 2019 to replace the 17 existing vehicles (eight six-car and nine four-car KISS trains), which were sold to Deutsche Bahn Fernverkehr AG. Stadler supplies a total of 15 six-car formations. The new double-decker multiple units are 150 metres long. The comfort level of all carriages meets first-class standards. The end carriage 600, with its 2+1 seating, is in Plus class. Thanks to the pressure-resistant design, a newly integrated fire detection system and a further bogic upgrade, levels of comfort are even higher. As such, the scheduled route extension to Germany, and possibly Switzerland, can go ahead. All intermediate carriages have a modern bistro where passengers can purchase refreshments, and there are separate toilets in all carriages. Furthermore, a PRM WC is located in the intermediate carriage 400. For the benefit of passengers, stewards are on board the trains throughout the journey. The trains reach a maximum speed of 200 km/h. The new vehicles will be delivered to WESTbahn in 2021.

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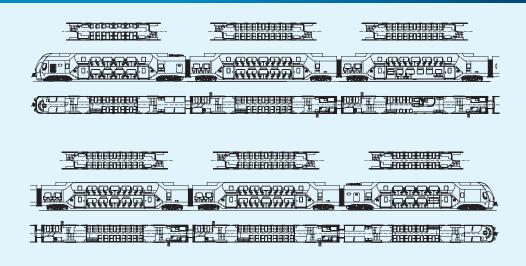
Stadler Rail Group

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Technical features

Technology

- Lightweight car bodies in integral aluminium design in accordance with the latest standards for crashworthiness (EN 15227) and car body strength (EN 12663)
- Motor and trailer bogies with pneumatic suspension
- Fire detection system in all areas
- Upgrade to ETCS BL3

Comfort

- Air conditioning for passenger compartments and driver's cab, with fresh air circulating via the perforated ceiling, and a panel heating system
- Bright, passenger-friendly interior with individual scope for design
- Bistros in the intermediate carriages
- Twelve pressure-resistant passenger doors on each side for rapid passenger boarding and alighting
- Vacuum toilet system with wheelchair access
- Passenger WLAN in all passenger compartments
- Seat reservation system

Personnel

- Ergonomically and comfortably designed working environment to prevent driver fatigue
- User-friendly passenger information system
- Driver's cab for operation with driver and assistant

Reliability / Availability / Maintainability / Safety

- Redundant drive equipment with eight powertrains with water-cooled IGBT power converters
- Vehicle control system with train bus and diagnostics computer (CAN-open bus)
- Clear layout of passenger compartments for passenger orientation and safety

Vehicle data

Customer	WESTbahn Management GmbH
Operated networks	Intercity Vienna-Salzburg
Gauge	1435 mm
Designation	ET 4010
Supply voltage	15kVAC, 16.7Hz
Axle arrangement	Bo'Bo'+2'2'+2'2'+2'2'+2'2'+Bo'Bo
Number of vehicles	15
Delivery	2021
Seats	
First class PLUS	24
First class	461
Second class Other	8
Tip-up seats	13
Standing spaces	758
Floor height	
Low-floor at entrance	570 mm
Bottom deck	440 mm
Top deck	2,515 mm
Entrance width	1,400 mm
Longitudinal force	1,500 kN
Length over coupling	150,000 mm
Vehicle width	2,800 mm
Vehicle height	4,595 mm
Bogie wheelbase	
Motor bogie	2,500 mm
Trailer bogie	2,500 mm
Driving wheel diameter, new	920 mm
Carrying wheel diameter, new	920 mm
Continuous power at wheel	4,000 kW
Max. power at wheel	6,000 kW
Starting tractive effort	320 kN
Starting acceleration, gross	0.85m/s²
Maximum speed	200 km/h