Following on from its original order in 2011, WESTbahn commissioned the
Stadler Rail Group to construct double-deck multiple units for the inter-
city route between Vienna, Salzburg and Munich in December 2014. From
2017 onwards, Stadler will deliver a total of nine 4-car and one 6-car train
configuration. The new double-deck multiple units are 100 and 150 metres
long respectively. The comfort in all carriages corresponds to first class
standard and will be further enhanced thanks to a pressure-resistant
design and an upgraded bogie. All intermediate carriages are equipped
with a modern cafe where passengers can purchase food and beverages.
Separate toilets are also available in all intermediate carriages. During the
journey, passengers will receive comprehensive service from the on-board
stewards. The trains reach a maximum speed of 200 km/h. Commercial
operations are due to start in October 2017.
Technical features

- Light, passenger-friendly interior which can be laid out according to individual requirements
- Bistro in the intermediate car
- 8 or 12 entrance doors on each side enable passengers to enter and exit quickly
- Air conditioning in passenger compartments and driver’s cab, with fresh air circulating via the perforated ceiling elements panel and a heating system
- Closed WC system adapted to the needs of disabled passengers
- Ergonomically designed driver’s cab
- Railcar body made of extruded aluminium profiles in accordance with EN 15227, scenarios 1 & 2
- Air-cushioned drive and trailer bogies
- Redundant propulsion equipment consisting of eight propulsion chains with water-cooled IGBT converters
- Vehicle control system with train bus and diagnostics computer (CANopen bus)
- WLAN for passengers in all passenger spaces

Vehicle data

Customer: Westbahn Management GmbH
Area of use: Vienna – Salzburg intercity
Track gauge: 1435 mm
Supply voltage: 15 kV AC, 16.7 Hz
Axle arrangement 6-part: Bo’Bo’+2’2’+2′2′+2′2′+Bi’Bi’
4-part: Bi’Bi’+2′2′+2′2′+Bi’Bi’
Number of vehicles 6-part: 1
4-part: 9
Commissioning: 2017
Seats, 1st cl.
6-part: 526
4-part: 326
Floor height
Low-floor in entrance: 570 mm
Lower deck: 440 mm
Upper deck: 2515 mm
Entry width: 1400 mm
Headroom: 2000 mm
Axial thrust: 1500 kN
Length over coupling
6-part: 150 000 mm
4-part: 100 000 mm
Vehicle width: 2800 mm
Vehicle height: 4595 mm
Bogie wheelbase
Motor bogie: 2500 mm
Trailer bogie: 2500 mm
Driving wheel diameter, new: 920 mm
Bogie wheel diameter, new: 920 mm
Continuous output at the wheel: 4000 kW
Max. output at the wheel: 6000 kW
Starting traction force (up to 68 km/h): 320 kN
Starting acceleration
6-part: 0.85 m/s²
4-part: 0.9 m/s²
Maximum speed: 200 km/h