



KISS – EMU

ÖBB Passenger Transport AG, Austria (Vienna)

In March 2022, ÖBB signed a framework agreement for up to 186 double-decker multiple units.

The units will be used throughout Austria for local and long-distance operation (and for airport transfers between Wien Mitte and Vienna Airport).

In the first call of the framework contract, 41 local transport vehicles are ordered and will be used to expand and partially replace the existing fleet. Due to the high utilisation rate of the existing fleet, the additional vehicles will be used to eliminate capacity bottlenecks. With a seating availability of 373 for the 4-car unit and 593 for the 6-car unit vehicles, the accessible two-floor multiple-unit trains are perfectly suited for transporting a large number of passengers within a very short time.

The units meet all legal requirements, current specifications and TSI's as well as the accessibility-guidelines of the Austrian Council for the disabled (ÖBR) and therefore enable people with reduced mobility to travel independently. The vehicles are equipped with power sockets and multifunctional areas, sufficient toilets as well as a modern and passenger-oriented information system.

Stadler Rail Group

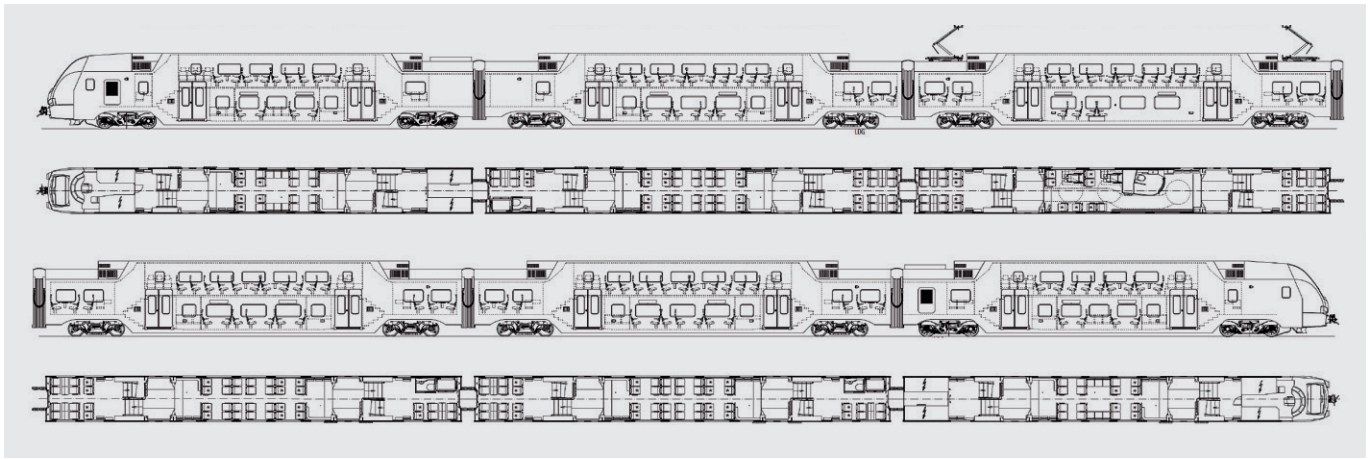
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STADLER



Technical features

Technology

- Interoperable vehicle according to the latest TSI
- ETCS train protection system „Guardia“ Level 3
- Air-conditioning system with natural refrigerant and heat pump
- Multiple unit traction of up to three multiple units

Comfort

- Modern passenger information system
- Barrier-free boarding (low-floor)
- Spacious entrance areas for optimum passenger flow
- Mobile permeable windows for better mobile reception
- At least 2 standard toilet systems + 1 universal toilet system for accessibility according to TSI PRM

Personel

- Ergonomically designed driver's desk
- Train crew cabinet with power sockets and storage facilities for personal belongings in long-distance vehicles
- Height-adjustable and sprung trainer seat in every driver stand
- Refrigerator for drinks and small food containers

Reliability / Availability / Maintainability / Safety

- Redundant drive control, consisting of two pantographs and four powertrains with water-cooled IGBT power converters
- Selective deselection of individual doors depending on platform length and driver request

Vehicle data

Customer	ÖBB-Personenverkehr AG
Operation area	Local transport in AT and DE incl. near-border routes CZ, HU and SK
Gauge	1,435 mm
Designation	4,734 (4 car) / 4,736 (6 car)
Supply voltage	15 kV AC or 25 kV AC
Axle arrangement	Bo`Bo` + 2`2` + 2`2` + Bo`Bo` / Bo`Bo` + 2`2` + 2`2` + 2`2` + 2`2` + Bo`Bo`
Commissioning	2025 (local transport)
Seats	373 (4 car) / 593 (6 car) 2 nd class: 318 (4 car) / 518 (6 car) Wheelchair: 2 (4 car) / 2 (6 car) Tip-up seat: 53 (4 car) / 73 (6 car)
Standing capacity	~ 600 (4 car) / ~ 900 (6 car)
Floor height	Low-floor area 440 mm High-floor area 2,524 mm
Entrance width	1,400 mm
Longitudinal force	1,500 kN
Length over coupling	106.94 m (4 car) / 159.86 m (6 car)
Vehicle width	2,800 mm
Vehicle height	4,630 mm
Bogie wheelbase	Motor bogie 2,700 mm Trailer bogie 2,500 mm
Driving wheel diameter	920 mm (new)
Carrying wheel diameter	920 mm (new)
Continuous power at wheel	4,000 kW
Max. power at wheel	4,800 kW (4 car) / 5,200 kW (6 car)
Starting tractive effort	380 kN
Starting acceleration, gross	1.1 m/s ² (4 car) / 0.95m/s ² (6 car)
Maximum speed	160 km/h