



METRO JK SERIES

Berliner Verkehrsbetriebe AöR (BVG)

The Berlin public transport operator, Berliner Verkehrsbetriebe AöR (BVG), has signed a framework agreement with Stadler for the delivery of up to 1 500 underground cars for use on the Berlin underground network.

This large order includes vehicles for both small-profile lines (JK series) and large-profile lines (J series).

Stadler will deliver 376 cars as two- or four-car units in the first call-off. This delivery is divided into 140 cars for small-profile lines (36 two-car and 17 four-car JK units) and 236 cars for large-profile lines (52 two-car vehicles and 33 four-car J units). The vehicles have been in test mode since 2022 and have also been operating for testing purposes on the BVG rail network since 2024.

The new small-profile series JK and the large-profile series J have been developed for the specific requirements of the Berlin underground. There is a particular focus on using identical components in both vehicles as much as possible to speed up development and production and to simplify maintenance and spare parts requirements. The JK series consists of two- or four-car units that can be combined to form six- or eight-car trains. The vehicles are energy-efficient, low-noise and have a modern passenger information system.

Stadler Deutschland GmbH

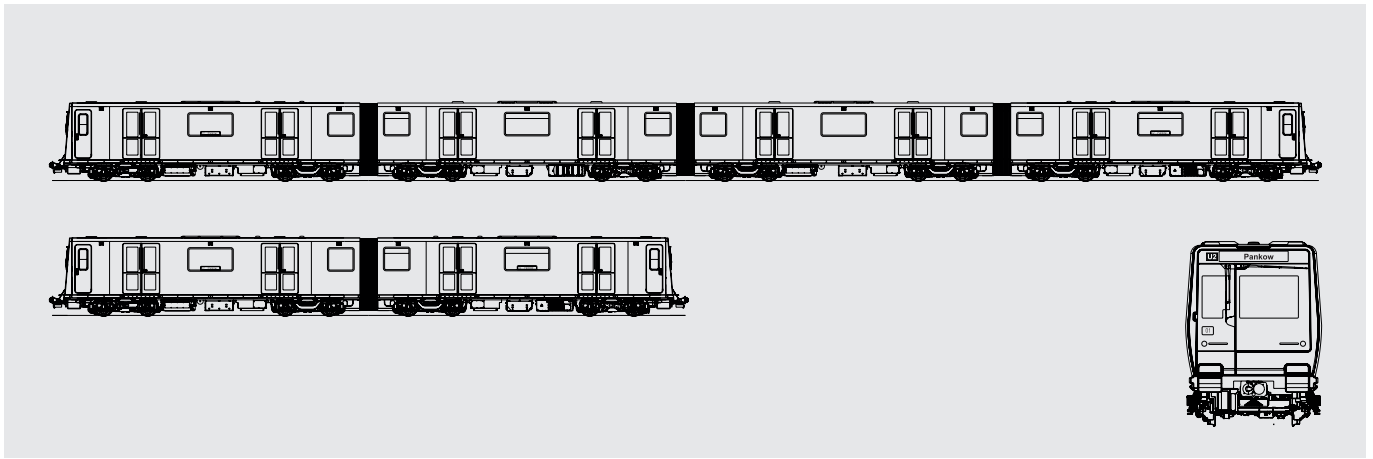
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STADLER



Technical features

Technology

- Car body made of aluminium
- Smooth ride thanks to air suspension of running gear
- Modern control and communication system-architecture
- Modular configuration of the vehicle length (2 and 4 cars)

Comfort

- 2 doors per car body and side
- Enhanced sense of space due to the ultra-slim door pillars
- Large entrance areas to the passenger compartments for a rapid exchange of passengers
- Well-lit, welcoming passenger compartments
- Modern passenger information system with interior monitors. Front and side displays on the outside
- Grab poles between the seats
- Big multifunctional zones in the end carriage
- Large number of seats in the intermediate carriages

Personnel

- Ergonomically designed driver's cab
- Increased user comfort due to memory functions

Reliability / Availability / Maintainability / Safety

- Modern diagnostics system for better maintenance and availability
- High proportion of identical parts between the J and JK series
- Crash norm EN 15227 compliant
- Fire protection standard EN 45545 compliant

Vehicle data

Customer	Berliner Verkehrsbetriebe AöR (BVG)
Area serviced underground	Small profile network for Berlin metro
Track gauge	1,435 mm
Designation	Underground trains JK series
Axle arrangement	2-car: (1A)Bo' + Bo'(A1) 4-car: (1A)Bo' + Bo'(A1) + (1A)Bo' + Bo'(A1)
Number of cars	2-car: 36 4-car: 17
Commissioning	2022 (start test mode)
Seats	2-car: 22 4-car: 82
Standing capacity (4 pers./m²)	2-car: 118 4-car: 227
Floor height	875 mm
Entrance width	1,300 mm
Length over couplers	2-car: 25,820 mm 4-car: 51,640 mm
Car width	2,400 mm
Car height	3,160 mm
Bogie wheelbase	1,800 mm
Wheel diameter new/old	720/630 mm
Min curve radius	50 m
Power traction motor	2-car: 540 kW 4-car: 1,080 kW
Current System	750 V, conductor rail
Maximum speed	70 km/h