



J-CLASS UNDERGROUND TRAINS

Berliner Verkehrsbetriebe AöR (BVG)

The Berlin transport operator, Berliner Verkehrsbetriebe AöR (BVG), has placed an order with Stadler for up to 1500 metro cars for use on the Berlin metro network. This large order is for both small-profile routes (JK series) and large-profile routes (J series).

Stadler will deliver 376 cars as two or four-car units in the first round. This delivery is divided into 140 cars for small-profile routes (36 two-car and 17 four-car JK units) and 236 units for large-profile routes (52 two-car units and 33 four-car J units). The first vehicles will be delivered to the customer from 2022.

The new large-profile series, J Class and the small-profile series, JK Class are being developed for the specific requirements of the Berlin underground railway system. There is a particular focus on using identical components in both units as much as possible to speed up development and production and to reduce maintenance and spare parts requirements. The class J series can be configured as continuous 2-, 4- and 6-car units. The units are energy-efficient and low-noise and have a modern passenger information system.

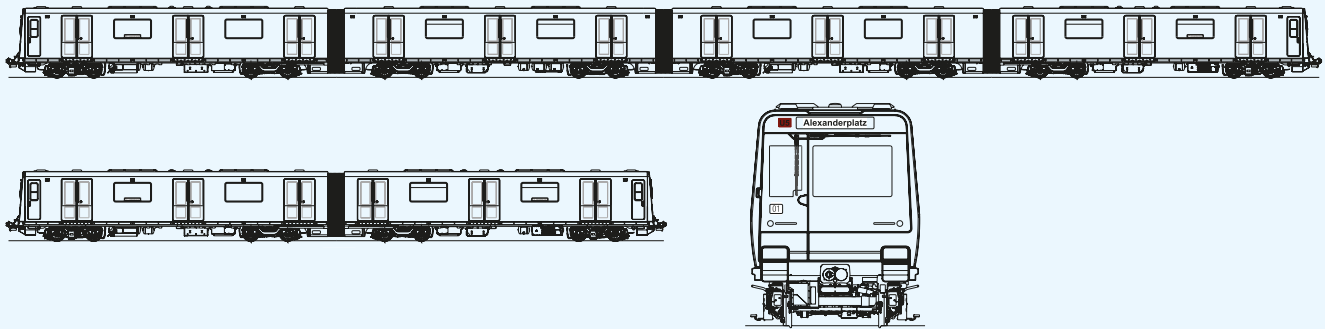
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Technical features

Technology

- The car body is made of aluminium
- The air suspension of the running gear gives a smooth ride
- Modern control and communication system - architecture
- Modular configuration of the vehicle length (2,4 and 6 carriage)

Comfort

- Three doors on each side of the car
- 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 and end and side displays on the outside
- Grab poles between the seats
- Big multifunctional zones in the end carriage
- A 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 device for better maintenance and availability
- A 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)	
	2-car	4-car
Area serviced underground	Large-profile network for Berlin metro	
Gauge	1435 mm	1435 mm
Designation	Class J underground	
Axle arrangement	(1A)Bo' + Bo'(A1)	(1A)Bo' + Bo'(A1) + (1A)Bo' + Bo'(A1)
Number of unit	52	33
Commissioning	2022	2022
Seats	38	110
Standing capacity (4 pers./m2)	177	353
Floor height	950 mm	950 mm
Entrance width	1300 mm	1300 mm
Length over couplers	32 100 mm	64 200 mm
Unit width	2650 mm	2650 mm
Unit height	3425 mm	3425 mm
Bogie wheelbase	1800 mm	1800 mm
Wheel diameter new/old	770/680 mm	770/680 mm
Min curve radius	50 m	50 m
Power traction motor	660 kW	1320 kW
Current System	750 V, conductor rail	
Maximum speed	70 km/h	70 km/h