



FLIRT AKKU 3-CAR

Test carrier

The FLIRT AKKU is the battery-operated version of the FLIRT type series. Designed for non-electrified or partially-electrified tracks, the vehicle is highly versatile. 80 percent of the non-electrified tracks in Germany can be used by the regional train in battery mode. The FLIRT AKKU is a single-storey, flexible regional train that can be customised. The vehicle concept is primarily based on the previously approved and tested electrical multiple-unit FLIRT trains purely for operation below the catenary. The traction elements and the most important mechanical components are largely the same. One thing that all FLIRTs have in common is their lightweight design made of aluminium. Maintenance-friendly components that have been tried and tested a thousand times over help to keep the operating, energy and maintenance costs as low as possible. 2 to 4-car train combinations can be realised in the model equipped with lithium-ion batteries. Here, the FLIRT AKKU, like the FLIRT, can be customised to meet requirements with respect to the number of seats, passenger flow or interior design. The 3-car test carrier offers space for 310 passengers, of this number 154 on seats. The FLIRT Akku test carrier is used for testing and the continuous further development of the technology.

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Technical features

Technology

- Automatic central buffer couplings
- Lightweight aluminium construction
- Meets the requirements of DIN EN 15227 (Crash Norm)
- Air-sprung bogies ensure smooth running
- Catenary operation with 15 kV and catenary-free operation with lithium-ion traction battery

Comfort

- Bright and friendly passenger compartment
- Passenger compartment fully steplessly walk-through
- Air-conditioned passenger compartment and driver's cab
- Generously designed multi-functional compartments at all entrance-areas
- 3 doors per side
- Sliding steps and gap-bridging at all doors
- Cycle racks / wheelchair
- Modern passenger information system
- Service area
- Universal WC and standard WC acc. to TSI PRM

Personal

- Ergonomically designed driver's cab
- Service area

Reliability / Availability / Maintainability / Safety

- Fulfilment of the Crash Norm EN 15227
- Fulfilment of the TSI PRM and the TSI Noise

Vehicle data

Gauge	1,435 mm
Supply voltage	15 kV AC
Axle arrangement	Bo'2'2'2
Seats	154
Standing capacity (4 pers./m2)	156
Floor height	
Low floor	780 mm
High floor	1,200 mm
Door width	1,300 mm
Door height	780 mm
Longitudinal strength	1,500 kN
Length overall	58,600 mm
Vehicle width	2,880 mm
Vehicle height	4,120 mm
Bogie wheelbase	2,500 mm
Running bogie	2,700 mm
Drive wheel diameter	
new	920 mm
worn	850 mm
Trailer wheel diameter	
new	760 mm
worn	690 mm
Maximum speed	140 km/h
Drive	2 × 500 kW