



ELECTRIC THREE-SYSTEM MULTIPLE UNIT FLIRT

Slovenske Železnice, Slovenia

In April 2018, Stadler won a tender from the Slovenian state railway company, Slovenske Železnice which was replacing its regional fleet. Initially, they ordered 26 single-decker and double-decker vehicles and in May 2019, decided to order a further 26 vehicles. Stadler stood out during the tender process, largely because it offered a combination of single and double-decker versions of all of the trains in the original order. The initial order comprised five single-decker FLIRT diesel multiple units, but ultimately, 21 were ordered. These trains are approved for use in Slovenia and Croatia and as part of local border traffic to Austria. The three-car regional trains belong to the flagship FLIRT family, which have already been produced for many operators with various operating profiles. FLIRT for Slovenske Železnice meets the latest technical specification for interoperability including the legal requirements for people with disabilities. Low flooring allows level boarding at every external passenger door. This means that passengers can get on and off the train more easily and that waiting time is reduced. The multiple unit offers 235 seats, 12 of which are in first class, standing room for a further 184 passengers, as well as two wheelchair bays. There is space for ten bicycles in two multifunctional zones. The vehicles are fully air conditioned and have two toilets, a modern passenger information system and wifi.

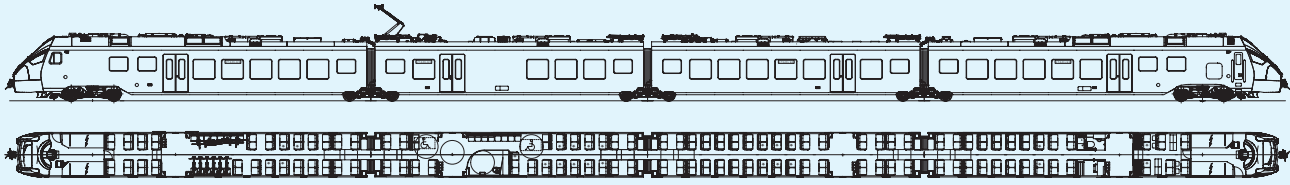
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Technical features

Technology

- 3 kV DC, 15 kV / 16.7 Hz AC, 25 kV / 50 Hz AC
- Maximum speed of 160 km/h
- Welded car body structure made of extruded aluminium profiles
- Front cab made of glass-reinforced plastic
- High tractive efforts and acceleration

Comfort

- Low-floor area and level-boarding to improve passenger flow
- Bright, passenger-friendly interior with customer-specific design
- Air-conditioned passenger compartments and driver's cabs
- Vacuum toilet system, also suitable for passengers with disabilities
- Multifunctional zones and cycle compartments
- Wifi

Personnel

- Separate entrance for drivers
- Ergonomically designed driver's desk and thermo pocket
- Conductor compartment

Reliability / Availability / Maintainability / Safety

- Redundant powertrain
- Easy access for maintenance
- Vehicle control system with train bus and diagnostics computer (CAN open bus)
- ETCS and PZB safety technology

Vehicle data

Customer	Slovenske Železnice
Operated networks	Slovenia, Croatia, Austria
Track Gauge	1435 mm
Designation	FLIRT
Supply voltage	3 kV DC, 15 kV AC, 25 kV AC
Axle arrangement	Bo'2'2'2'Bo'
Number of vehicles	11 + 10
Commissioning	2020
Seats	235
1st class	12
2nd class	201
Tip-up seats	22
Wheelchair bays	2
Standing capacity	184
Floor height	
Low-floor	600 mm
High-floor	1145 mm
Entrance width	1300 mm
Axial thrust	1500 kN
Length over coupler	80700 mm
Vehicle width	2820 mm
Vehicle height	4280 mm
Bogie wheelbase	
Motor bogie	2700 mm
Jacobs bogie	2700 mm
Driving wheel diameter, new	870 mm
Carrying wheel diameter, new	760 mm
Max. power	3000 kW
Max. tractive effort	200k N
Starting acceleration	1.3 m/s ²
Maximum speed	160 km/h