

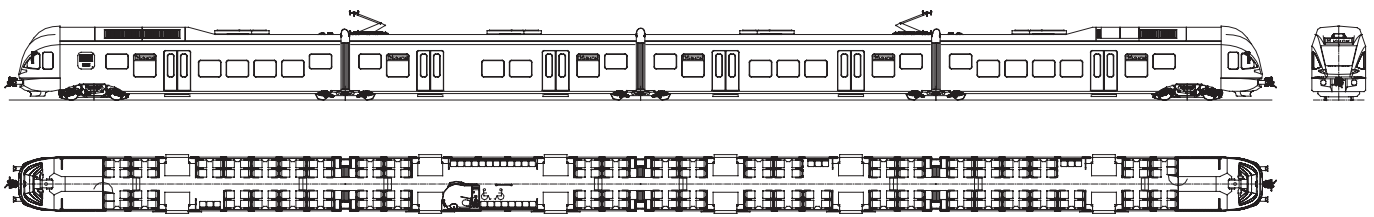


Electric low-floor multiple unit FLIRT for Belarusian Railways, Belarus

The Belarusian railways in Belarus, has ordered from Stadler Bussnang AG 4 four-car trains (EMU's) for the interregional traffic of Belarus. Stadler's FLIRT for Belarus is based on the design of the FLIRT for the Finnish leasing company Junakalusto Oy. This design is well prepared for the specific climatic condition in Belarus. E.g. the car body has been adjusted to the Belarusian vehicle gauge and the bogie to the Belarusian track gauge. Furthermore, the trains have been designed for the extreme climatic challenges of the Belarusian winter by taking the requirements to the thermal insulation etc. into account.

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Technical features

- Bright, passenger-friendly interior with customized design
- Excellent visibility through the whole passenger area
- Low-floor section > 70 %
- Passenger information system
- Spacious multipurpose area in entrance section
- 6 doors on each side for fast entry and exit of passengers
- Air-conditioned passenger and driver compartments
- Vacuum toilet system, also suitable for people with reduced mobility
- Ergonomically designed driver's desk
- Glass fiber reinforced plastic front cabin
- Automatic coupler
- Welded car body structure with extruded aluminum profiles
- Air-suspended bogies
- Redundant traction chain with 4 water-cooled IGBT power converters
- Vehicle control system with train bus, vehicle bus and diagnostic computer
- Video surveillance
- Multiple-traction up to three trains

Vehicle data

Customer	Belarusian Railways
Lines operated	Belarus
Gauge	1520 mm
Catenary voltage	25 kV, 50 Hz
Axle arrangement	Bo'2'2'2'Bo'
Number of trains	4
Service start-up	2012
Seating capacity	188
Fold-up seats	29
Standing capacity (4 Pers./m ²)	348 (accord. to DIN 25008)
Floor height	
Low floor	600 mm
High floor	1120 mm
Door width	1300 mm
Longitudinal strength	1500 kN
Overall length	75 200 mm
Vehicle width	3200 mm
Vehicle height	4400 mm
Tare weight	132 t
Bogie wheelbase	
Motor bogie	2700 mm
Trailer bogie	2750 mm
Powered wheel diameter (new)	860 mm
Trailer wheel diameter (new)	800 mm
Continuous power at wheel	2000 kW
Maximum power at wheel	2600 kW
Starting tractive effort	200 kN
(up to 47 km/h)	
Max. acceleration (full load)	1.2 m/s ²
Service speed	160 km/h