In October 2013, Belarusian Railway (BZD) ordered two seven-part low-floor multiple unit FLIRTs from Stadler. The trains are designed for a maximum speed of 200 km/h and are used as Intercity trains and on interregional transport routes. They offer 382 seats and 412 standing spaces. The new-generation FLIRT is based on the established FLIRT platform and has been developed for the special conditions in Finland, Norway, Estonia, Russia and Belarus. The generous, comfortable interior allows the passengers to experience a pleasant journey. The modern passenger information system provides travellers with relevant information, and the video surveillance system guarantees maximum safety.
Vehicle data

<table>
<thead>
<tr>
<th>Customer</th>
<th>Belarusian Railway</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lines</td>
<td>operated Belarus</td>
</tr>
<tr>
<td>Gauge</td>
<td>1520 mm</td>
</tr>
<tr>
<td>Catenary voltage</td>
<td>25 kV, 50 Hz</td>
</tr>
<tr>
<td>Number of trains</td>
<td>2</td>
</tr>
<tr>
<td>Start of services</td>
<td>2016</td>
</tr>
<tr>
<td>Seating capacity</td>
<td>382</td>
</tr>
<tr>
<td>Standing capacity</td>
<td>412 (DIN 25008)</td>
</tr>
</tbody>
</table>

Floor height

- Entrance: 600 mm
- Low floor: 700 mm
- Intercar connection: 900 mm
- High floor: 1240 mm

Door width: 1000 mm

Longitudinal strength: 2000 kN

Overall length: 134500 mm

Vehicle width: 3480 mm

Vehicle height: 4600 mm

Bogie wheelbase

- Motor bogie: 2700 mm
- Trailer bogie: 2750 mm

Driving wheel diameter (new): 870 mm

Carrying wheel diameter (new): 800 mm

Continuous power at wheel: 3000 kW

Maximum power at wheel: 3900 kW

Starting tractive effort (up to 47 km/h): 300 kN

Max. acceleration (0– 47 km/h): 0.9 m/s²

Maximum operating speed: 200 km/h

Technical features

Technology

- Lightweight aluminium car body design according to the newest crashworthiness (EN 15227) and structural strength (EN 12663) standards
- Automatic coupler, Scharfenberg coupler type 10
- Air-suspended bogies
- Welded aluminium car body structure made of welded aluminium profiles
- Multiple traction of up to 2 vehicles

Comfort

- Comfortable and bright interior with customised design
- Business and economy class compartments
- Barrier-free and gap free entrance with sliding steps for persons with reduced mobility (wheelchairs, elderly, prams and bikes), > 80% low-floor area
- Space for up to two wheelchairs
- Bistro for the sale of snacks and hot and cold beverages
- Powerful heating and air conditioning with heat recuperation
- Single leaf doors and sliding steps for fast and easy passenger flow
- 6 vacuum toilets (1 with access for people with reduced mobility)
- Passenger information system
- Equipped with passenger WLAN

Personnel

- Ergonomically and comfortable designed working environment to prevent inanition of driver (for 1 or 2 drivers)
- Ease control of train operation, safety, passenger comfort and service related systems by train attendants
- Easy cleaning and safety risk detection inside the train by train attendants (while running the train)
- Expiration optimized kitchen layout

Reliability/Availability/Maintainability/Safety

- Video surveillance
- Intercom system with train driver and attendants
- Emergency brakes, emergency buttons
- Fire detection, alarm and extinguishing systems
- Passenger information system (PIS on disturbance and emergency situations)
- Intermittent or continuous train control systems (E)TCS
- Occupational safety, ergonomics, operator friendliness