

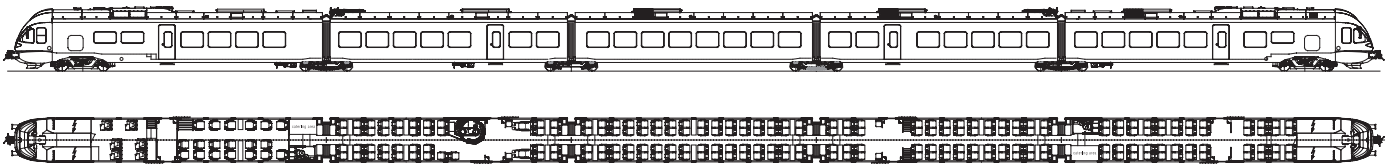


Electric Intercity Multiple-unit FLIRT for LEO Express a.s., Czech Republic

In September 2010, LEO Express a.s. has ordered 5 Intercity-low-floor multiple units of the FLIRT type. They will be operated as “LEO Express” starting in December 2012 on the Prague-Ostrava line and will set a new benchmark regarding passenger comfort. The passenger can choose between Premium-, Business- and Economy class. All classes provide tables and internet access. Spacious luggage holders and racks enable the storage of bigger luggage, which is important for an Intercity vehicle. Passengers with reduced mobility also will find a suitable compartment as well as a vacuum toilet accessible by wheelchair. Two standard vacuum toilets are additionally located in the end coaches. The catering trolley can be stored in a special, lockable compartment. Power supply for the trolley is secured by an electric socket. Exterior as well as interior design underline the special character of these trainsets.

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Technical features

- Three classes (Premium, Business, Economy)
- Bright, passenger-friendly interior with customized design
- Tables/desks at the passenger seats (for food or work)
- End-to-end walk-through Economy compartment, with no steps
- One toilet suitable for use with wheelchair, two standard toilets, vacuum technology (closed system)
- Four doors for long-distance train on each side
- Lockable compartment for catering trolley, with electric socket
- WLAN-Internet in all classes
- Air-conditioned passenger and driver compartments
- Ergonomically designed driver's cab
- Automatic coupling
- Welded aluminium superstructure built up of extruded profiles
- Air-suspended bogies
- Redundant traction chain with water-cooled IGBT power converters
- Vehicle control system on the base of the CANopen-bus, with train bus and diagnostics computer
- Multiple-unit operation

Vehicle data

Customer	LEO Express a.s.
Line operated	Czech Republic, Prague-Ostrava
Designation	FLIRT LEO Express
Gauge	1435 mm
Catenary supply voltage	3 kVDC
Axle arrangement	Bo' 2'2'2'2' Bo'
Number of vehicles	5
Start of operation	2012
Seating capacity total	237
Premium class	6
Business class	19
Economy class	212 (4 of it folding-up seats)
Floor height	
Low floor	780 mm
High floor	1120 mm
Door width	950 mm
Longitudinal strength	1500 kN
Overall length	90178 mm
Vehicle width	2880 mm
Vehicle height	4150 mm
Tare weight	150 t
Bogie wheelbase	
Power bogie	2700 mm
Trailer bogie	2700 mm
Powered wheel diameter (new)	870 mm
Trailer wheel diameter (new)	750 mm
Continuous output at wheel	2000 kW
Maximum output at wheel	2600 kW
Starting tractive power	200 kN
Maximum speed	160 kph

