

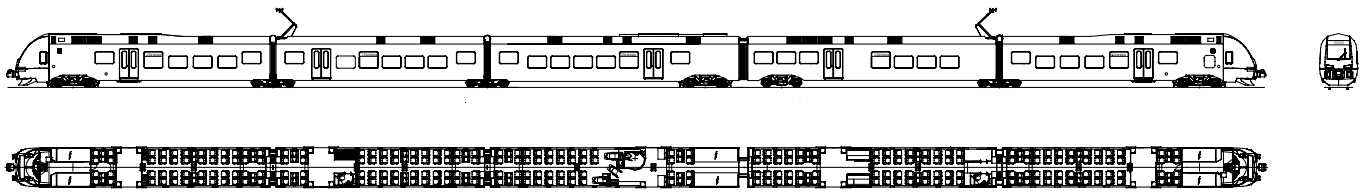


Electric Low-floor Multiple-unit FLIRT for MTR Express, Sweden

MTR Express has purchased six 5-car electrical trains of the FLIRT family from Stadler. The trains have been designed to meet MTR's high requirement for premium class service on intercity rail routes. Since its market launch in 2004, more than 1000 FLIRT railcars have been sold, some 160 of which are in operation in Norway, Finland, Estonia and Belarus – countries with extreme winter conditions. The FLIRT Nordic has been tested in the climate chamber in Vienna for a temperature range down to -40° . Sealed compartments provide the traction equipment with optimum protection from rain, snow and ice, while double gangway bellows are used in the intercarriage connections. Air suspension, high-grade materials, a modern passenger information system and a proven HVAC system guarantee comfortable travel for everyone on board.

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Technical features

- Transparent, open interior design and easy access for the elderly, families and people with reduced mobility.
- Air conditioned passenger compartments and driver's cabs. Optimised thermal insulation.
- Vacuum toilet system in the low floor area, suitable for people with reduced mobility.
- Low floor area 70%.
- Spacious multipurpose area in entrance section.
- Air-suspended trailer bogies.
- Ergonomically designed driver's desk.
- Redundant propulsion equipment consisting of 6 drive chains with water-cooled IGBT power converters.
- Vehicle control system with train bus and diagnostic computer.

Vehicle data

Customer	MTR Express
Lines operated	Gothenburg – Stockholm
Gauge	1435 mm
Catenary supply voltage	15 kV, 16.7 Hz
Axle arrangement	Bo'2'2'Bo'+2'2'Bo'
Number of vehicles	6
Delivery	2014/2015
Seating capacity	244
Floor height	
Low floor	800 mm
High floor	1180 mm
Door width	1300 mm
Longitudinal strength	1500 kN
Overall length	105.5 m
Vehicle width	3200 mm
Vehicle height	4380 mm
Tare weight	216.3 t
Bogie wheelbase	
Power bogie	2500 mm
Trailer bogie	2750 mm
Powered wheel diameter	920 mm
Trailer wheel diameter	920 mm
Maximum output at wheel	4500 kW
Starting tractive power	240 kN
Maximum speed	200 km/h

