



## ***KISS Double-Decker Electric Railcar for the Aeroexpress, Moscow***

On 12 February 2013 the Russian company Aeroexpress made the decision to purchase 25 double-decker railcars from Stadler; 9 6-part and 16 4-part formations. They will be introduced on 3 routes between the centre of Moscow and the airport as of 2015.

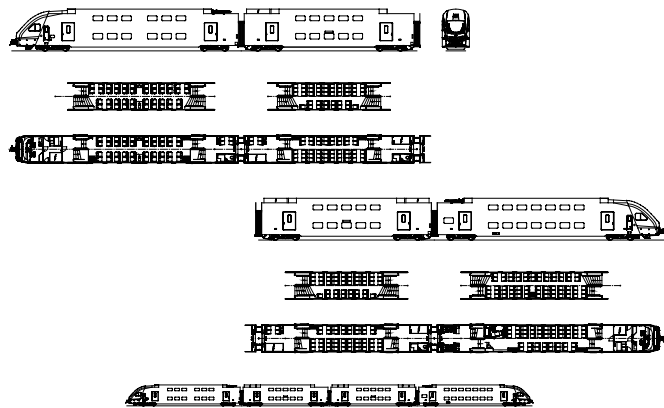
With these new trains, Aeroexpress will be able to meet the quickly increasing levels of demand and offer its passengers greater levels of comfort. The new trains have 396 or 700 seats, 84 of which are Business Class. They will fulfil all relevant Russian standards and, at the same time, set new standards for commuter traffic in Russia.

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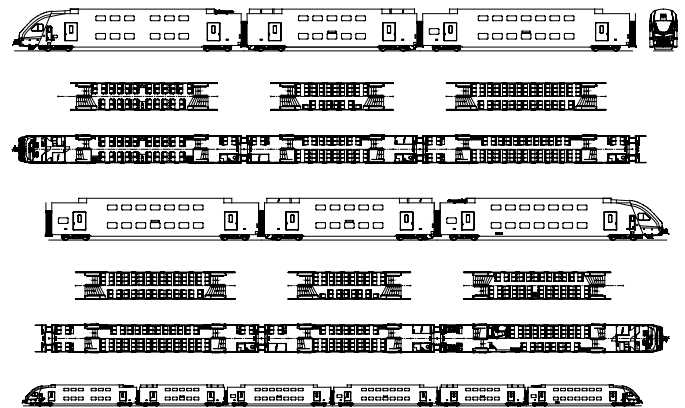
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## 4-part



## 6-part



## Technical features

- Bright, passenger-friendly interior with individual scope for design
- Generously dimensioned entrance areas for optimum passenger flow
- 8 or 13 entrance doors on each side for a rapid exchange of passengers
- Air conditioning for passenger compartment and driver's cab adjusted to Russian climatic conditions
- Closed WC systems in every carriage, one of which per train has disabled access
- Ergonomically designed driver's cab
- Vehicle body made of extruded aluminium sections
- Motor and trailer bogies with pneumatic suspension
- Redundant drive equipment with 3 or 4 drive chains with water-cooled IGBT power converters
- Vehicle control system with train bus and diagnostics computer (CAN open bus)
- Multiple-unit control for up to 3 trains



## Vehicle data

Customer	Aeroexpress
Area of operation	Moscow airport link
Gauge	1524 mm
Supply voltage	3 kV direct current
Axle arrangement	2'2'+Bo'2'+Bo'Bo'+2'2' or 2'2'+Bo'Bo'+2'2'+2'2'+Bo'Bo'+2'2'
Number of vehicles	25
Commissioning	2015
Seating capacity 1st + 2nd class	84 + 312 or 84 + 616
Tip up seats	8
Standing capacity (7 pers./m <sup>2</sup> )	523 or 842
Floor height	
Entrance door	1285 mm
Lower deck	685 mm
Upper deck	2974 mm
Access width	1400 mm
Headroom	2150 mm
Length over coupling	101700 mm or 155100 mm
Vehicle width	3400 mm
Vehicle height	5240 mm
Service weight, unladen weight	237 t or 349 t
Bogie wheelbase	
Motor bogie	2500 mm
Trailer bogie	2500 mm
Diameter of driving wheel, new	920 mm
Diameter of carrying wheel, new	920 mm
Continuous output at wheel	2400 kW or 3200 kW
Maximum output at wheel	3900 kW or 5200 kW
Starting tractive force (up to 54 km/h)	300 kN or 400 kN
Starting acceleration up to 60 km/h	0,8 m/s <sup>2</sup>
Maximum speed	160 km/h