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Ingenuity for life

Desiro City Class 717

Electrical Multiple Units for Govia Thameslink Railway

The Desiro City is the UK's first second-generation commuter platform, providing an outstanding solution for London mass transit systems and regional lines. It has been developed based on the expertise and feedback of UK train operators, maintenance and cleaning crews. Designed to be lightweight (both train and bogie) and featuring an innovative single-car concept, the Desiro City provides optimal ease of maintenance and a customizable, modular interior design.

Features such as maximum flexibility, perfect comfort, and low energy consumption are what convinced British rail operator Govia Thameslink Railway to choose 25 six-car Desiro City regional trains.

The 25 trains will commence operation in 2018. The Units will operate on Great Northern suburban services from Welwyn Garden City, Hertford, Stevenage and Letchworth into London's Moorgate station. The trains will be financed by Rock Rail, with equity provided by SL Capital (part of Standard Life Investments) and debt from Aviva Investments.



Technical data

Axle arrangements	Bo'Bo'+2'2'+2'2'+Bo'Bo'+2'2'+Bo'Bo' (6-car EMU)
Gauge	1,435 mm
Maximum speed	136 km/h (85 mph)
Power at wheel	1,200 kW
Approx. acceleration	0.85 m/s ²
Power supply	AC 25 kV 50 Hz and DC 750 V
Passenger seats excl. tip-ups	362 (all standard class)
Unit length	121,674 mm
Floor height (a.r.l.)	1,100 mm
Width	2,800 mm
Nominal vehicle length	20 m
Weight tare load approx.	204 t
Standards	TSI 2014 & EN45545 OC4 HL3

- Passenger WiFi
- Innovative Passenger Information System (PIS) with real-time information
- CCTV (DOO, Pantograph and Third Rail Camera)
- Advertising screens at entrance area
- Driver Advisory System (C-DAS) for ontime arrival and energy-saving journeys

Project features

- Front egress device for operation in Moorgate tunnel
- Bright, friendly interior with large windows
- Open and unobstructed full width intervehicle gangways
- Two sliding entrance doors per car / side
- Passenger door opening of 1,500 mm
- Automatic Selective Door Opening (ASDO)
- Comfortable seats with plug socket
- Air conditioning, ventilation and heating unit with CO₂ sensor
- Designed in accordance with TSI PRM 2014
- Space for wheelchairs
- Provision for installation of UNI WC in (TOS(L)W)

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