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Desiro City Class 707

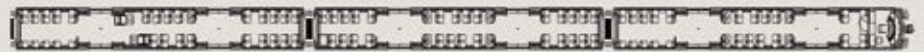
Electrical multiple units
for South West Trains

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 South West Trains Network Rail Alliance to choose 30 five-car Desiro City regional trains.

The 30 trains will commence operation by early 2018. They will be used on the routes operated by South West Trains in the southern suburbs of London and in southwestern England and will serve the London Waterloo station. The trains will be financed by leasing company Angel Trains.



Technical Data

Axle arrangements	Bo'Bo'+2'2'+2'2'+2'2'+Bo'Bo' (5-car EMU)
Gauge	1,435 mm
Maximum speed	160 km/h (100 mph)
Power at wheel	1,200 kW
Approx. acceleration	0.85 m/s ²
Power supply	DC 750 V
Passenger seats excl. tip-ups	271 (all standard class)
Unit length	101,517 mm
Floor height (a.r.l.)	1,100 mm
Width	2,800 mm
Nominal vehicle length	20 m
Weight tare load approx.	165 t
Crashworthiness	TSI

Project features

- Bright, friendly interior with large windows
- Open and unobstructed 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
- Space for wheelchairs
- Provision for 25 kV / 50 Hz catenary supply
- Provision for installation of ETCS
- Provision for installation of UNI WC (TOS(L)W)
- Two trains as dual mode, for testing and approvals
- Passenger WiFi
- Innovative Passenger Information System (PIS) with load status display for individual cars (VLS)
- CCTV
- Advertising screens at entrance area
- Driver Advisory System (DAS) for on-time arrival and energy-saving journeys

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