



ELECTRIC DOUBLE-DECK TRAIN KISS

Alpha Trains, Germany

For operation on the Mittelland line, Alpha Trains uses 13 double-deck trains KISS. The operation of the trains started in december 2015 between the following stops: Braunschweig–Hannover–Minden–Bielefeld/Rheine. The 6-part vehicles have 627 seats, of which 34 are located in 1st class. The modular design allows individual adjustment to the regional requirements – therefore this trains offer generous multi-purpose areas for up to 42 bikes.

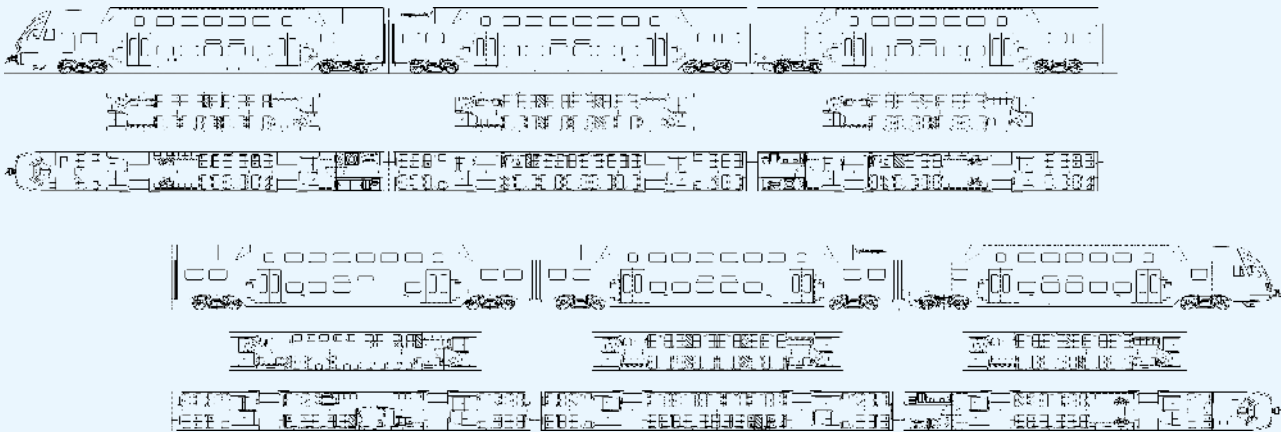
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Technical features

Technology

- Powered head vehicle and middle vehicle
- Car bodies consist of a fully welded aluminium integral design
- Boarding height optimised for “550” platforms
- Air-sprung motor and carrying bogies
- Meets TSI PRM and TSI Noise requirements

Comfort

- 18 bicycle stands, possible to increase to 42 during summer
- Additional possibilities to store luggage in each lower and upper deck
- Light, air-conditioned passenger compartment with individual layout
- LED lighting in the passenger compartment
- Generously sized boarding areas encourage the optimal passenger flows
- 4 closed toilet systems conforming with TSI PRM
- A toilet cabin also suitable for electronic wheelchairs
- 12 access doors per side
- Gap bridging on all doors

Staff

- Ergonomically designed driver’s cab

Reliability / Availability / Maintainability / Safety

- Meets the requirements of DIN EN 15227 (Crash Standard)
- Meets fire protection level 3 in accordance with DIN 5510-1 and operating class 2 in accordance with CEN/TS 45545-1
- Video surveillance in the internal space

Vehicle data

Customer	Alpha Trains
Operator	WestfalenBahn GmbH
Number of trains	13
Lines operated	Braunschweig–Hannover–Minden–Bielefeld/Rheine
Start of operation	December 2015
Gauge	1,435 mm
Supply voltage	15 kV, 16 2/3 Hz
Axle arrangement	2'Bo'+2'2'+Bo'2'+2'2'+2'2'+Bo'2'
Seats	627
1st class	35
2nd class	592 (of which 69 folding seats)
Standing capacity (4 pers./m²)	844 people
Floor height	
Lower deck	440 mm (over rail level)
Upper deck	2,515 mm (over rail level)
Door width	1,300 mm
Floor height	600 mm
Length overall	156,450 mm
Vehicle width	2,800 mm
Vehicle height	4,630 mm
Bogie wheelbase	in the bogie, 2,500 mm
Maximum speed	160 km/h
Drive	
rated power	6 × 500 kW
max. power	6 × 750 kW