



METRO TRAINS SERIES 4300

Ferrocarrils de la Generalitat Valenciana, Spain

Spanish public operator Ferrocarrils de la Generalitat Valenciana (FGV) has ordered in several batches from 2004 to 2008 62 metro trains of the Series 4300 for use in the Metro Valencia network that connects the center of Valencia with its metropolitan area. Some sections are underground.

There are 42 metro trains of 4 cars and 20 of 5 cars in operation. The bidirectional vehicles have a modular and scalable design customized to the Valencia infrastructure and customer requirements. They are able to run on 1500 VDC overhead voltage and 1000 mm-gauge lines and are ready for ATP / ATO operations. They have a spacious and comfortable passenger area with a continuous floor level. Ergonomic seats are wall mounted for easy cleaning. A great number of double-doors and wide corridors allow quick passenger flow and free access along the vehicle.

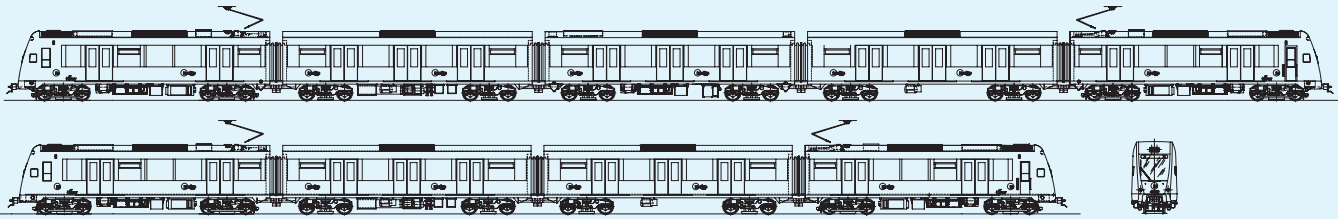
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Technical features

Technology

- Bidirectional vehicles
- Lightweight structure of stainless steel
- High performance of the traction chain (IGBT)
- Rubber/metal primary suspension
- Pneumatic secondary suspension
- Electrical service brake: Regenerative

Comfort

- Double-leaf doors for quick passenger flow
- Bright, pleasant passenger compartments with scope for individual design
- Air-conditioned in passenger area and driver's cab
- Wide corridors allow free access along vehicle
- Multifunction areas and places for PRM
- Modern passenger information system

Personnel

- Wall mounted seats for easy cleaning
- Ergonomically designed driver's cab allowing great visibility

Reliability / Availability / Maintainability / Safety

- Antislip, antislid system
- ATP/ATO capability
- Surveillance CCTV system

Vehicle data

Customer	Ferrocarrils de la Generalitat Valenciana (FGV)
Region	Valencia, Spain
Number of vehicles	42 x 4 cars (MRRM) 20 x 5 cars (MRNRM)
Commissioning	2008
Track gauge	1000 mm
Energy supply	1500 V DC
Vehicle length	60500 mm (MRRM) 75700 mm (MRNRM)
Vehicle width	2550 mm
Vehicle height	4055 mm
Floor height	1150 mm
Seats	116 (MRRM) 144 (MRNRM)
Capacity (6 pers./m²)	588 (MRRM) 750 (MRNRM)
Doors	10 double-leaf doors per side (MRRM) 13 double-leaf doors per side (MRNRM)
Wheel diameter	860 mm
Min. curve radius	60 m
Power traction motor	1485 kW (MRRM) 2200 kW (MRNRM)
Maximum speed	80 km/h