

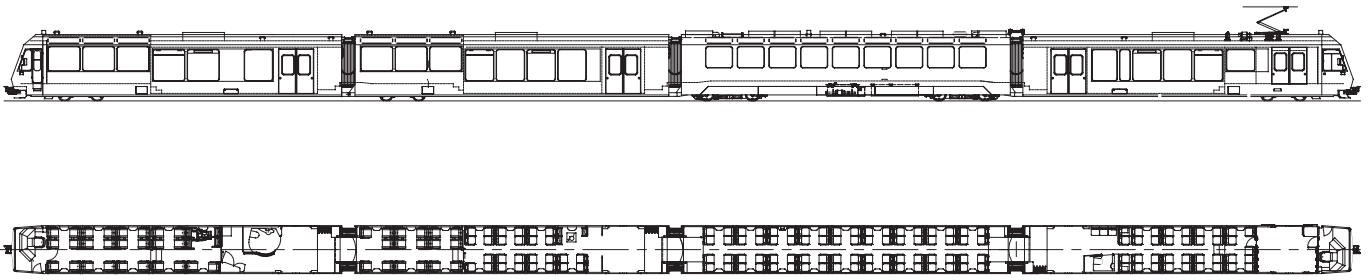


Low-floor panoramic «KOMET» ABDeh 4/10 railcar with rack drive for the Matterhorn Gotthard Bahn (MGB), Switzerland

The Matterhorn Gotthard Bahn is purchasing comfortable new trains to provide a convenient means of transportation for guests from the new NEAT hub in Visp to car-free Zermatt. Wide low-floor entrances with spacious door zones and room for luggage, air-conditioning and comfortable seating in both first and second class means passengers can enjoy a pleasant journey. All high-floor compartments have panoramic windows, allowing the passengers to enjoy the breathtaking landscape of mountains and glaciers. Every vehicle is fitted with bogies with pneumatic suspension. A high-performance three-phase current system with four drives means the trains can be used on both adhesion and rack routes.

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Technical features

- Air-conditioned passenger compartments and drivers' cabs
- Modern passenger information system
- Panorama views in first and second class
- Low-floor intermediate and end carriages made from aluminium
- Wide entrance doors in low-floor area
- Ample space for luggage in the entrance zone
- Barrier-free compartments and toilet in the first class area
- Motor and trailer bogies with pneumatic suspension
- Four combined rack and adhesion drives
- Ergonomically designed driver's cab in line with RAILplus standards
- Autocoupler
- Electrical traction equipment with water-cooled GTO power converter
- Vehicle control system from the MITRAC series with train bus and diagnostics computer
- Multiple-unit control possible, also with the shuttle trains supplied in 2003
- Redundant auxiliary operating equipment: on-board converters, batteries, compressors

Vehicle data

Customer	Matterhorn Gotthard Bahn (MGB), Switzerland
Lines operated	entire rail network
Track gauge	1 000 mm
Supply voltage	11 kV, 16.7 Hz
Designation	ABDeh 4/10, fleet numbers 2011–2013 ABDeh 4/8, fleet numbers 2021–2022
Axle arrangement	2'Bo'Bo'2'2' and 2'Bo'Bo'2'
Number of carriages	4 (4-car) + 8 (3-car)
Commissioning	2007/2008 + 2014
Seats	First class 47 and 30
Seats	Second class 141 and 114
Floor height	
Low-floor areas	415 mm
High-floor areas	950 mm and 1 100 mm
Access width	1 600 mm
Axial thrust	800 kN
Length over coupling	74 728 mm and 56 664 mm
Vehicle width	2 650 mm
Vehicle height	3 950 mm
Operating mass	Unladen weight 95.0 t and 77.0 t
Axle base	
Motor bogie	2 540 mm
Trailer and brake bogie	1 800 mm
Drive wheel diameter	New 796 mm
Carrying wheel diameter	New 685 mm
Continuous rating at wheel	1 000 kW
Max. output at wheel	1 300 kW
Starting traction force	200 kN
Maximum speed	80 km/h

