



MULTIPLE UNITS FOR MIXED OPERATION – ABEH 2/6

Transports Montreux–Vevey–Riviera (MVR), Switzerland

Under the leadership of the GoldenPass Group, Transports Montreux–Vevey–Riviera (MVR) ordered eight new ABeh 2/6 multiple units from Stadler for mixed adhesion and rack-and-pinion operation in March 2013. The modern trains are mainly used for the lines between Vevey and Les Pléiades, which were also converted to a quarter-hour cycle at the same time. The low-maintenance metre-gauge railway is designed for a maximum running speed of 60 km/h. The bright, comfortable passenger compartments are equipped with modern safety technology to make travelling a pleasant experience. The train has 106 seats, of which 12 are in first class. The variable multifunctional zones in the entrance areas can be adapted to seasonal requirements. The ergonomically designed, comfortable driver's cab with separate access meets the requirements of the personnel. With this order, MVR standardised its vehicle fleet and thus optimised maintenance.

www.stadlerrail.com

Stadler Rail Group

Ernst-Stadler-Strasse 1
CH-9565 Bussnang
Phone +41 (0)71 626 21 20
stadler.rail@stadlerrail.com

Stadler Bussnang AG

Ernst-Stadler-Strasse 4
CH-9565 Bussnang
Phone +41 (0)71 626 20 20
stadler.bussnang@stadlerrail.com



Technical features

Technology

- Car body made of extruded aluminium profiles for higher durability and easier maintenance as well as reduced vehicle weight
- Bogies with pneumatic suspension for increased comfort and improved even running
- Impact-absorbing front section for improved protection for the driver
- High-performance electric regenerative brake
- State-of-the-art vehicle control system electronics

Comfort

- Airy, bright and inviting interiors for the passengers
- Excellent visibility through the whole train thanks to wide gangways and an extensive low-floor area
- Multifunctional zones in all entrance areas
- Two entrance doors on each side for rapid exchange of passengers
- Dedicated access for mobility impaired customers
- Passenger information system in the train
- Innovative light strips with LED technology
- Air-conditioned passenger compartments

Personnel

- Multiple unit train control possible for up to three vehicles
- Ergonomically designed driver's cabs
- Air-conditioned driver's cabs

Reliability / Availability / Maintainability / Safety

- Increased safety: video surveillance, SOS columns and fire detectors
- Water-cooled power converters using new technology
- Redundant vehicle control system with train bus and diagnostic system

Vehicle data

Customer	MVR (GoldenPass)
Lines serviced	Vevey–Les Pléiades Montreux–Zweisimmen
Gauge	1000 mm
Vehicle designation	ABeh 2/6
Supply voltage	960 VDC
Axle arrangement	2'B0'2'
Number of vehicles	8
Commissioning	2016
First class seats	12
Second class seats	63
Tip-up seats	31
Standing capacity (4 pers./m²)	65
Floor height	
Low-floor	400 mm
High-floor	980 mm
Entrance width	1300 mm
Axial thrust of car body	800 kN
Length over buffers	39234 mm
Vehicle width	2650 mm
Vehicle height	3852 mm
Wheelbase	
Motor bogie	2480 mm
Trailer bogie	1900 mm
Wheel diameter	
Driving wheels, new	798 mm
Carrying wheels, new	700 mm
Output	900 kW
Max. tractive effort	
Adhesion	70 kN
Rack-and-pinion	135 kN
Maximum starting acceleration	1.3 m/s ²
Maximum speeds	
Rack-and-pinion, on a gradient	20 km/h of 200‰ (downhill)
Adhesion (permitted maximum speed)	60 km/h