



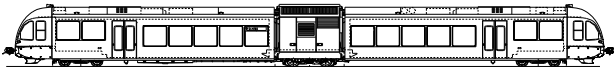
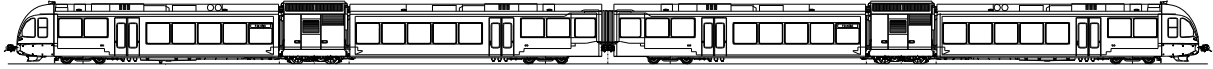
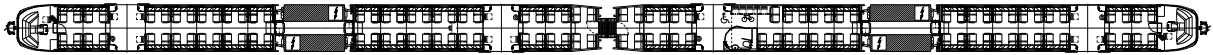
Six 2/6 and 4/12 Low-floor DMU GTWs for Sistemi Territoriali, Italy

The Sistemi Territoriali S.p.A is purchasing 6 new diesel articulated railcars for service on the Udine-Cividale and Adria-Mestre lines (4 GTW2/6 and 2 GTW 4/12). The new GTW 2/6 trains are virtually identical to those already delivered for service on the Merano-Malles line. These trains are equipped with seating 111 passengers and a disabled-accessible WC. The diesel-electric traction unit fully redundant. Two 390 kW diesel engines are employed. The GTW 4/12 trains are permanently coupled GTW 2/6 having a bellows gangway connection. These vehicles offer 245 passenger places and are also equipped with a disabled-accessible WC.

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GTW 2/6

GTW 4/12


Technical features

- Bright, friendly interior with large window areas
- Transparent, open interior design
- Air-conditioned passenger and driver compartments
- Closed toilet system with easy access for the disabled
- Stepless passenger compartment with wide doors: low floor section > 75%
- 2 entrance doors per side
- Spacious multipurpose area in entrance sections
- Air-suspended power and trailer bogies
- Ergonomically designed driver's cab
- Traction equipment housed in a separate power car
- Redundant traction chain consisting of two units, each with a diesel engine, asynchronous generator, IGBT power converter and asynchronous drive motor
- Vehicle control system with train bus and diagnostics computer (CAN open bus)
- Multiple-unit control for up to three vehicles

Vehicle Data

| | GTW 2/6 | GTW 4/12 |
|------------------------------|------------------------------------|-------------------|
| Customer | Sistemi Territoriali | " |
| Lines operated | Udine - Cividale Adria - Mestre | Adria - Mestre |
| Gauge | 1'435 mm | " |
| Designation | -- | " |
| Axle arrangement | 2'Bo'2' | 2'Bo'2' + 2'Bo'2' |
| Number of vehicles | 4 | 2 |
| Service start-up | ab 2006 | " |
| Seating capacity 2. Kl. | 102 | 230 |
| Fold up seats | 9 | 15 |
| Floor height | | |
| Low floor | 585 mm | " |
| High floor | 996 mm | " |
| Door width | 1'320 mm | " |
| Longitudinal strength | 1'500 kN | " |
| Overall length | 39'500 mm | 77'330 mm |
| Vehicle width | 3'000 mm | " |
| Vehicle height | 4'035 mm | " |
| Tare weight | 68 t | 2 x 68 t |
| Bogie wheelbase | | |
| Power unit | 2'100 mm | " |
| Trailer unit | 2'100 mm | " |
| Powered wheel diameter (new) | 860 mm | " |
| Trailer wheel diameter (new) | 750 mm | " |
| Maximum power at wheel | 600 kW | 2 x 600 kW |
| Starting tractive power | 80 kN | 2 x 80 kN |
| Maximum speed | 140 km/h | " |