



## **Regional railcar Regio-Shuttle RS1 for the Erfurter Bahn GmbH (EB)**

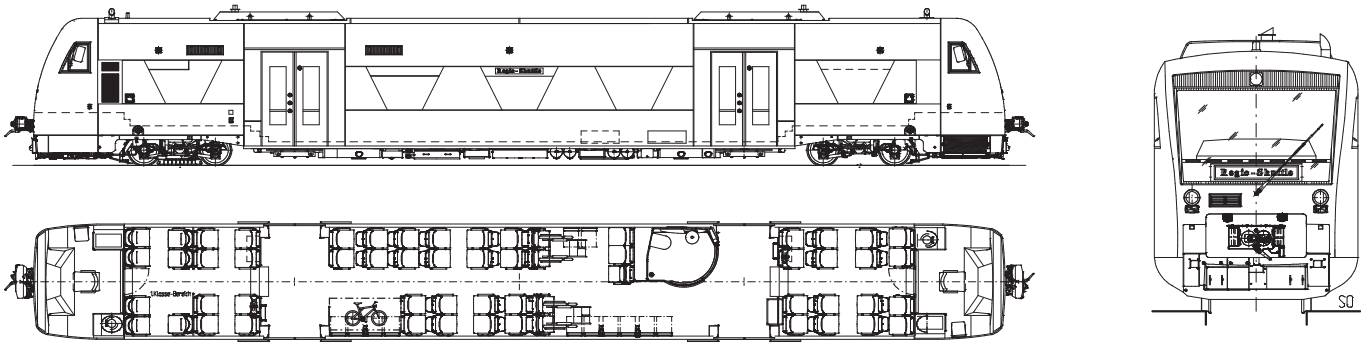
The regional railcar Regio-Shuttle RS1 has been successfully operated on the lines in Thuringia and Bavaria for the Erfurter Bahn GmbH since 1998. 37 Regio-Shuttle RS1 were ordered in 2010 for the diesel net in eastern Thuringia.

The Regio-Shuttle RS1 is a modern fuel-efficient low-floor railcar. It is uniquely designed for regional transport on main and secondary lines.

High acceleration rates and a top speed of 120 km/h as well as comfortably equipped passenger areas provide a fast and relaxed drive. The vehicles are diesel-mechanically powered and operate with two independently functioning drive systems.

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## Technical features

- Air-conditioned passenger compartment and driver cab
- Automatic central buffer coupling
- Vacuum toilet system
- Carbody designed of welded square steel tubes
- The side walls are designed in a typical framework construction in order to achieve a low vehicle weight.
- The side wall covering is made of approx. 20 mm thick GRP sandwich plates which are directly adhered to the carbody structure.
- Carbody designed to withstand a longitudinal force of 1,500 kN
- Air-suspended bogies provide the required smooth running.
- Two independent drive systems ensure a high availability.
- Multiple-unit control for up to 4 vehicles
- Bi-directional vehicle designed for one-man operation
- Spacious passenger area with 65 % low-flow content
- Wide double-leaf swing plug doors with a width of 1,300 mm
- Bright, friendly passenger compartments
- Modern passenger information system
- Ergonomically designed driver working place

## Vehicle data

Customer	Erfurter Bahn GmbH
Operated line	Eastern Thuringia
Number of vehicles	37
Commissioning	2012
Gauge	1,435 mm
Length over coupler	25,360 mm
Vehicle width	2,900 mm
Vehicle height	4,100 mm
Floor height	
low-floor	600 mm
high-floor	1,000 mm
Door width	1,300 mm
Longitudinal force	1,500 kN
Seats	70 (including 12 folding seats)
Standing capacity (4 pers./m <sup>2</sup> )	77
Net weight	42 t
Axle arrangement	Bx'By'
Bogie wheelbase	1,800 mm
Traction wheel diameter	710–770 mm
Drive	2 diesel motors with 257 kW each, diesel-mechanically
Max. speed	120 km/h
Max. acceleration	1.2 m/s <sup>2</sup>

