



Low-floor tramway, type Variobahn for Bochum-Gelsenkirchener Straßenbahnen AG (BOGESTRA)

BOGESTRA ordered 30 vehicles of type Variobahn for the use in Bochum, Gelsenkirchen and Herne. The bi-directional vehicles own a constant floor level (100 % low floor) and will come into operation as from 2008.

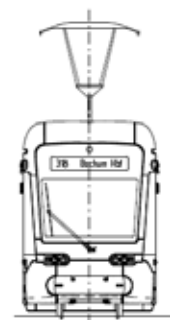
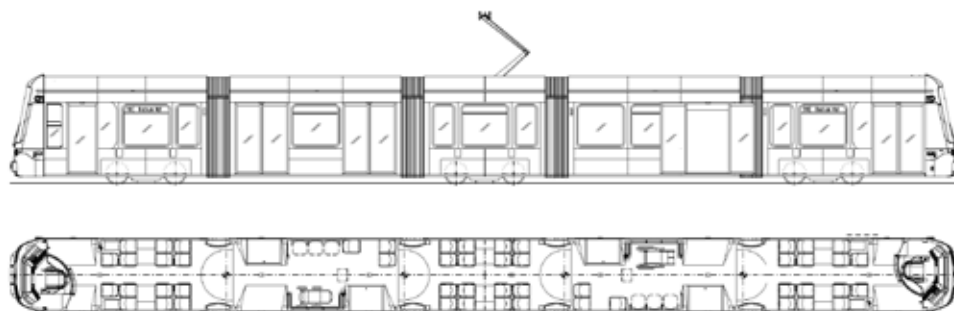
The Variobahn is a modern and modularly constructed tramway system with defined interfaces and a good deal of flexibility concerning the length, the width, the gauge and the catenary's supply voltage. A maximal adaptation to the needs of the customer is possible.

The vehicle has a bright and comfortable passenger module thanks to the carbody width.

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Technical features

- Modular construction based on main functions (front module, motor bogie module, passenger module, trailer bogie module)
- Bi-directional vehicle
- Constant 100 % low floor over the whole vehicle
- Body-shell in high-alloyed steel
- Exterior covering made with bounding technology
- Free arrangement of doors in front and end module
- Free seating organisation in passenger modules
- Adjustment of length and width through chosen modules and grid dimensions
- Spacious fixed articulation covering for the passage
- Possible undershooting of given disengagement volume, as well as for the curve running-in and narrow curves
- Cantilever seats
- Fire protection for vehicles which go under tunnels
- Ticket selling by the driver
- Air-conditioned passenger and driver compartments
- Ergonomically designed driver's cab

Vehicle data

Customer	Bochum-Gelsenkirchener Straßenbahnen AG (BOGESTRA)
Operated lines	Bochum, Gelsenkirchen and Herne, Germany
Number of vehicles	30 (+15 in option)
First delivery	2008
Vehicle length	29,620 mm
Vehicle width	2,300 mm
Height above roof devices	3,350 mm
Access height	300 mm
Constant low-floor height	350 mm
Aisle width	520 mm
Tare weight	38,800 kg
Gauge	1,000 mm
Exterior sliding doors	5 on each side
Wheel diameter	650/570 mm (new/used up)
Powered/trailer wheel	8/4
Catenary's voltage	600/750 V
Drive	8 x 45 kW
Maximum speed	70 km/h
Seating capacity	56 (including 6 folding seats)
Standing capacity (4 pers./m ²)	128
Minimal curve radius	18 m

