



## VARIOBAHN LOW-FLOOR LIGHT RAIL VEHICLE

Letbanen I/S in the city of Aarhus, Denmark

In July 2014, Stadler received an order for the delivery of 26 vehicles for the new tram system in Aarhus, the second largest city in Denmark. The order includes 14 Variobahn low-floor Light Rail Vehicles and 12 Tango low-floor tram trains. In 2017, Aarhus will be the European Capital of Culture. To mark the start of the cultural year, the Variobahns will be put into service between Lystrup and the main station. The bi-directional vehicles for Aarhus have a floor height of 385 millimetres (100% low-floor) and a gauge of 1435 millimetres.

The Variobahn is a modern, modular tram system with a high level of flexibility in terms of length, width, gauge and catenary voltage.

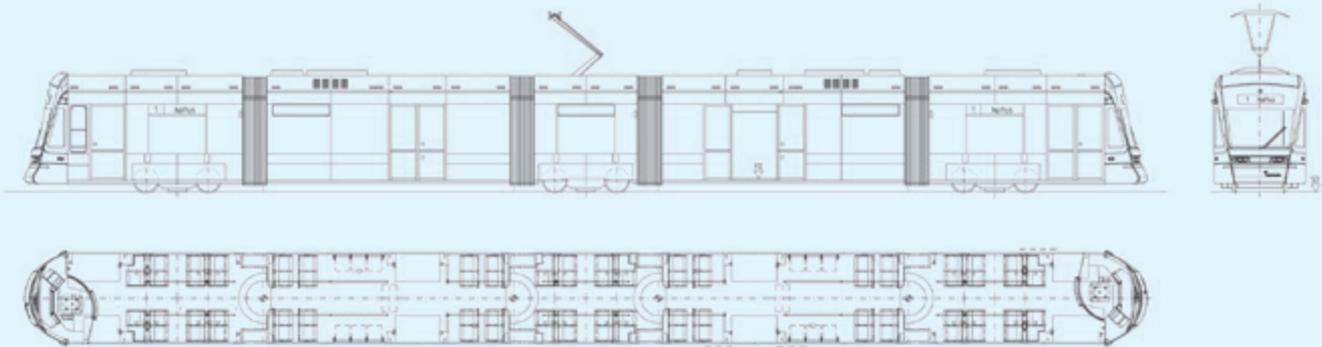
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## Technical features

### Technology

- Modular design based on main functions
- Bi-directional vehicle
- Body shell made of stainless steel
- Adhesive bonding technology for external panelling
- Energy-efficient double glazing of side windows
- Pneumatic suspension with constant height
- Length and width can be adjusted using selected modules
- Spacious articulated area with flexible interior panelling
- Optimum use of minimum clearance outline

### Comfort

- Constant floor level: 100% low-floor
- Free seat configuration in the passenger modules
- Air-conditioned passenger compartments
- WIFI for passengers
- LED lighting in interior

### Personnel

- Ergonomically designed driver's cab
- Modern, screen-based vehicle control system
- Air-conditioned driver's cabs

### Reliability / Availability / Maintainability / Safety

- Technically optimised to the conditions in Scandinavia based on experience in the field from the Variobahn Bergen (Norway) maintenance project
- Digital transfer of telemetry data to maintenance operations
- Video surveillance

## Vehicle data

<b>Customer</b>	Aarhus Letbanen I/S
<b>Area serviced</b>	Aarhus city centre
<b>Number of vehicles</b>	14
<b>First delivery</b>	2016
<b>Vehicle length</b>	32560 mm
<b>Vehicle width</b>	2650 mm
<b>Height (with roof-mounted components)</b>	3540 mm
<b>Access height</b>	350 mm
<b>Floor height</b>	385 mm
<b>Aisle width</b>	695 mm
<b>Gauge</b>	1435 mm
<b>External doors</b>	4 on each side
<b>Wheel diameter</b>	650/570 mm (new/worn)
<b>Driving wheels/carrying wheels</b>	8/4
<b>Catenary voltage</b>	750 V
<b>Drive system</b>	8 × 45 kW
<b>Max. speed</b>	80 km/h
<b>Seats</b>	84 (incl. tip-up seats)
<b>Standing capacity (4 pers./m<sup>2</sup>)</b>	132
<b>Curve radius</b>	25 m