BREMER STRASSENBAHN AG, GERMANY

Avenio tram – 84 four-section 100 percent low-floor vehicles

Siemens Mobility is one of the leading providers of integrated mobility solutions for urban areas as well as vehicles for mass transit and mainline traffic.

In June 2017, the German operator Bremer Straßenbahn AG (BSAG) ordered 67 Avenio trams from Siemens. The order included an option for up to 17 additional trams. Only seven months later in January 2018, BSAG exercised the first option for ten new vehicles. The second option of seven Avenios followed in December 2021.

The four-car trains are being delivered since 2020 and the last vehicle will be handed over at the end of 2023. The Avenios are replacing the GT8N-series trams currently in service and will have the BSAG type designation GT8N-2.

With the front end painted the company's signature bright red and featuring the BSAG logo, the design references earlier Bremer Strassenbahn trams, clearly identifying the Avenios as new members of the BSAG fleet.

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Painted the company's signature red and with the BSAG logo, easy to identify as a member of the BSAG fleet

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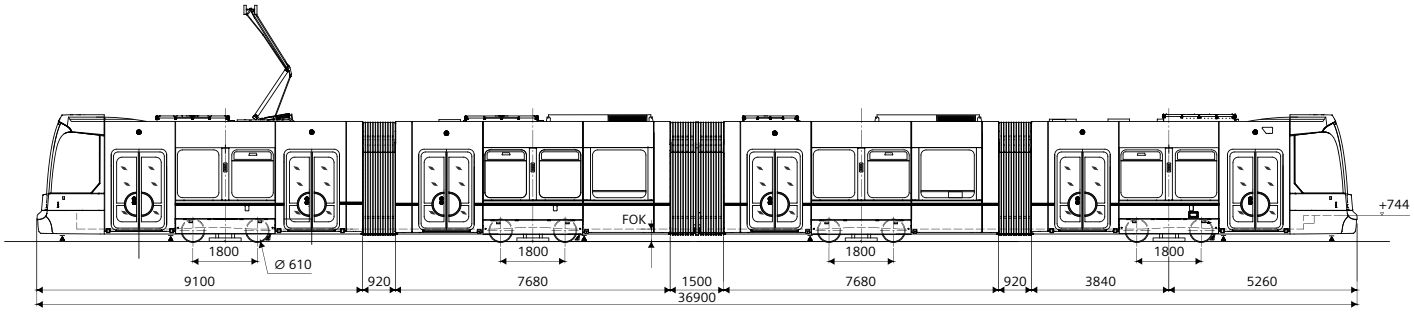
Technical properties / special features

- Excellent passenger comfort thanks to open, bright interior design with seats and handrails optimally designed according to ergonomic criteria; passengers can choose between upholstered and genuine wood seats
- Air-conditioning for passenger area and driver's cab and optimized running characteristics with three suspension stages
- Convenient access for passengers thanks to eight large multifunctional areas for strollers, walkers, and two wheelchairs
- Speedy boarding and alighting thanks to wide doors (seven double doors, 1,300 mm clear width)
- Weight-optimized vehicle design and maximized passenger capacity ensure compliance with limited axle load in existing network and reduced energy consumption
- Improved running characteristics and low wheel-track wear, thanks to longitudinally arranged drives in the bogies and mechanical coupling of the wheels in longitudinal direction, minimal unsprung masses, and optimized bogie-to-car-body coupling
- Highest safety thanks to four independent brake systems
- Compliant with latest safety standards (EN 15227, EN 45545)
- Electro-dynamic brakes to provide comfortable and smooth braking to standstill and low brake wear
- Redundant design of traction equipment provides maximum reliability and failsafe performance (three IGBT pulse inverters, three SIBAS® 32 traction control units)



Technical data

Vehicle type / platform	100% low-floor articulated multiple unit / Avenio
Vehicle configuration	4-section articulated train, unidirectional vehicle
Wheel arrangement	Bo'Bo'2'Bo'
Motor power rating	6 x 120 kW
Car body material	Steel, CDP-coated
Gauge	1,435 mm
Vehicle length over coupler	approx. 36,900 mm
Car width	2,650 mm
Entrance height/floor height above ToR	305 mm / 445 mm above bogies
Passenger capacity with 4 passengers/m^2	250 including 70 seats / 25 folding seats
Passenger doors	7 double doors with 1,300 mm clear width
Maximum operating speed	70 km/h
Power supply	DC 600 / 750 V (catenary voltage)

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