



TINA DARMSTADT ST-15

RHEAG mobilo GmbH, Darmstadt,
Germany

The Darmstadt public transport operator, HEAG mobilo GmbH, placed an initial order for a batch of 14 trams from the latest vehicle generation of TINA (total integrated low-floor drive) products. They have since ordered a further 11 vehicles.

Spacious, airy and with a focus on passenger comfort, these vehicles have a large low-floor area, wide panoramic windows, and barrier-free multifunctional zones. Seats are comfortable and have been laid out to suit passengers. Trams feature clear, comprehensive passenger information screens.

Driving assistance systems increase the operational safety of vehicles for the benefit of passengers. Thanks to efficient energy transfer and modern air-conditioning systems, which use the natural refrigerant, CO₂, the trams' environmental footprint is significantly lower than conventional vehicles. Innovative bogie technology ensures a smoother ride for passengers and makes maintaining these vehicles easier and more efficient.

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Technical features

Technology

- New platform TINA (total integrated low-floor drive)
- Innovative bogie technology for improved passenger comfort
- Multifunctional fields above entrance areas as well as above and below windows
- Panoramic windows in the passenger compartment
- Single-directional vehicle with auxiliary driver's cab at the rear
- Swivel ramp for entrance/exit outside platforms
- Driving assistance systems (Lidar/radar/cameras)
- Emergency battery operation

Comfort

- Support in the entrance area by LED signalling
- Tactile contours
- Low entrance edge
- Air-conditioned passenger compartments
- LED lighting in interior
- Wi-Fi for passengers
- USB charging connection
- CO₂ air-conditioning systems

Personnel

- Ergonomic modern driver workspace
- Modern, screen-based vehicle control system
- Air-conditioned driver's cab (with more environmentally friendly CO₂ technology)
- Additional passenger door for driver

Reliability/Availability/Maintainability/Safety

- Technically optimised vehicle for the requirements of the operator
- Use of maintenance-free components
- Improved access to maintenance areas
- Digital transfer of telemetry data to maintenance operations
- Video surveillance

Vehicle data

Customer	HEAG mobilo GmbH	
Operated networks	Darmstadt tram network	
Track gauge	1000 mm	
Vehicle designation	TINA ST-15	
Contact wire voltage	600 and 750 V	
Number of vehicles	25	
Start of operation	2023	
Seats	Standard seats	97
	Parent-child-seats	3
	Perch seats	8
Standing capacity (4 pers./m²)	171	
Entrance edge	280 mm	
Door width	800 / 1,300 mm	
Passage width	520 mm	
Length over coupling	43,950 mm	
Vehicle width	2,400 mm	
Vehicle height	3,600 mm	
Wheel diameter, new	650 mm	
Max. starting acceleration	1.3 m/s ²	
Maximum speed	70 km/h	