



# TINA DEN HAAG

HTM Personenvervoer NV,  
Den Haag, The Netherlands

In December 2022, HTM Personenvervoer NV, transport operator in Den Haag, ordered 56 TINA-vehicles. With the first call-off of 6 additional vehicles in October 2024, HTM has become the proud owner of the biggest TINA-fleet as of today.

The frame contract contains in total 100 vehicles. These 3-car bi-directional full low floor vehicles are 37,35 metres long, 2,65 metres wide, fully air-conditioned, and can accommodate up to 230 passengers. The vehicles are barrier-free, with no steps and a spacious interior. Maximum ceiling height in the aisles, as well as panorama windows provide a sense of space offering ample room for pushchairs and wheelchair users.

Four specially designed bogies ensure smooth running and reduce wear on the wheels and tracks, while the energy-efficient drive concept of the TINA tram will improve the environmental friendliness of the local public transport system in Den Haag. Equipped with LTO-Batteries, the tramways can cross 1,26 km non-electrified sections, which improves the operational flexibility significantly.

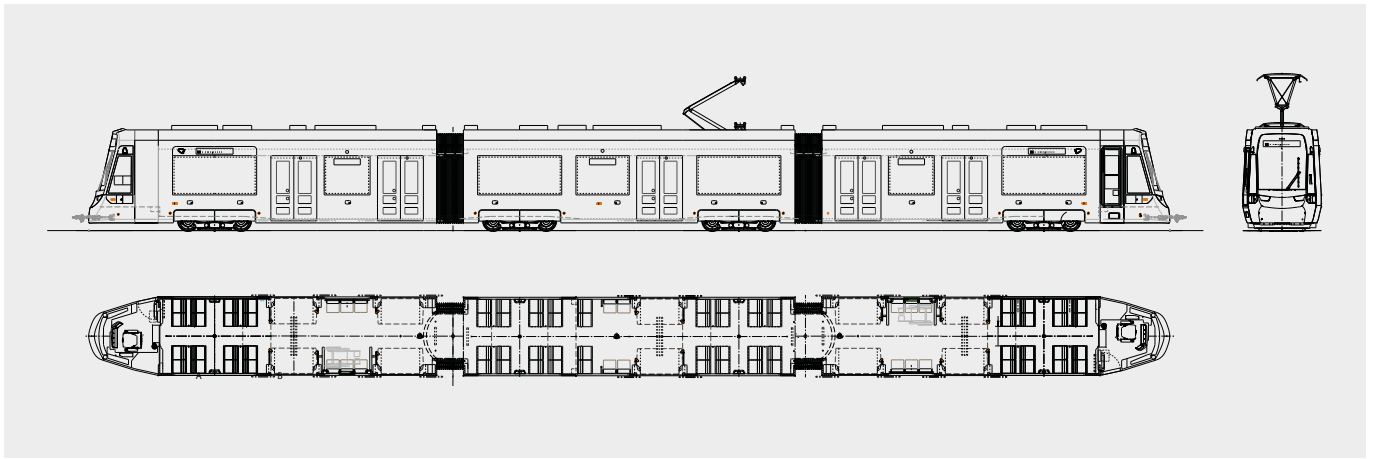
The innovative driver assistance systems include a new type of collision warning system. This will increase the safety of tram operations. The digital UNIBOARD® display adapts to the particular situation, allowing driving personnel to focus on what is important, thus also increasing the level of safety. The intuitive operability makes TINA a thoroughly enjoyable experience for the driver.

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## Technical features

### Technology

- Bi-directional light rail vehicle
- Innovative TINA bogies for maximum space in the interior and a high level of travel comfort
- Large wheel diameter
- LTO-Batterie-Package to cover up to 1,26 km non-electrified sections

### Comfort

- Completely barrier-free without steps or raised bases
- Generous legroom
- High ceilings
- Large panorama windows provide an unobstructed view and unique sense of space
- Excellent travel comfort due to innovative suspension system

### Personnel

- The Stadler UNIBOARD® ensures maximum safety and comfort for the driving personnel due to integrated functions, automatic display adapted to the particular situation, simple and fast visual detection and intuitive operability
- Ergonomically designed workplace for an ideal view of the route

### Reliability/Availability/Maintainability/Safety

- Innovative shimless wheel wear compensation in the primary suspension
- Redundant control and communication system
- Driver assistance systems, including collision warning system

## Vehicle data

<b>Customer</b>	HTM Personenvervoer NV	
<b>Operated networks</b>	Urban	
<b>Track gauge</b>	1435 mm	
<b>Designation</b>	TINA	
<b>Supply voltage</b>	750 V	
<b>Number of vehicles</b>	62 + 38 optional	
<b>Seats</b>	68	
<b>Tip-up seats</b>	16	
<b>Standing capacity</b>	162	
<b>Floor heights</b>	Low-floor	400 mm
	Entrance	350 mm
<b>Entrance width</b>	1300 mm	
<b>Length</b>	36 500 mm	
<b>Vehicle width</b>	2650 mm	
<b>Vehicle height</b>	3500 mm	
<b>Bogie wheelbase</b>	1800 mm	
<b>Maximum speed</b>	70 km/h	