

Urban Transport

1846

Tram-on-Tires

Nancy, France



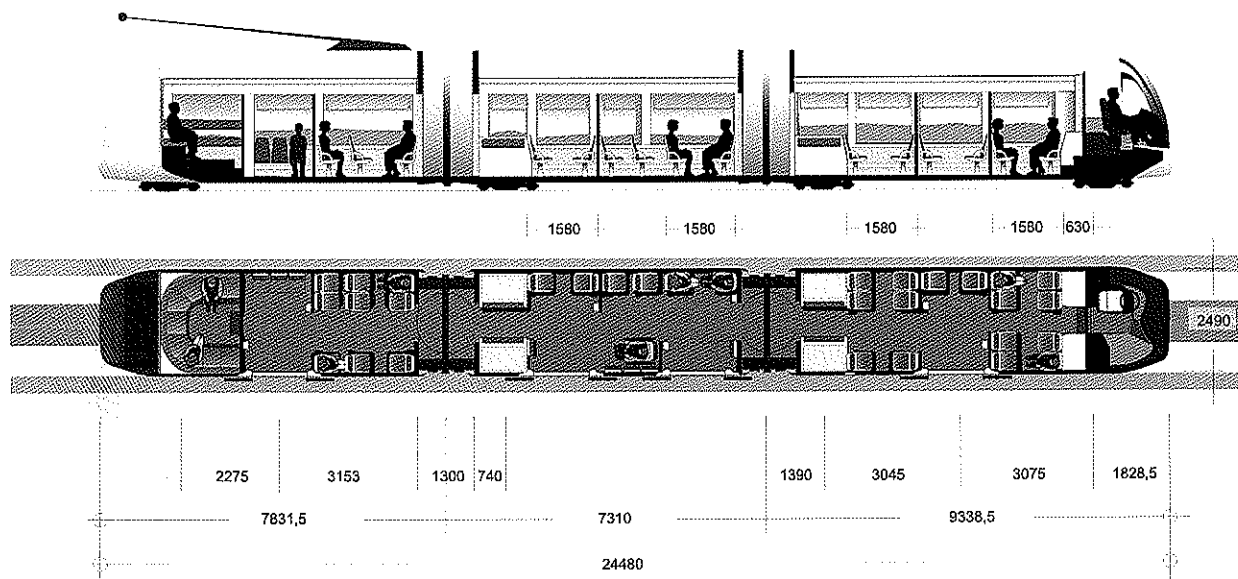
In 1998, the Greater Nancy Urban Community (CUGN) of France ordered 25 Tram-on-Tires units from Bombardier Transportation, with the objective of equipping its segregated-lane transit system. The Tram-on-Tires' main benefit is its rail and road bi-modality: it can be operated on a segregated electrified lane with a single central guiding rail, or operated as a road vehicle on tires, driven independently and powered by a diesel-electric system. The Greater Nancy urban area will accommodate the new Tram-on-Tires units on its existing trolleybus network. High comfort standards for passengers are met with 100% low-floor and air-conditioned accommodations, along with wide panoramic windows that allow unobstructed viewing of the city landscape. These units offer exceptional urban maneuverability, with the capacity for 12-meter radius curves and 13% gradients during normal operation. Tram-on-Tires is brightening the city of Nancy with its innovative, modern and environmentally-friendly features.

BOMBARDIER
TRANSPORTATION



NONSTOP

Tram-on-Tires



GENERAL SPECIFICATIONS

vehicle type	bi-modal
length	24,500 mm
width	2,500 mm
height	3,220 mm
passenger capacity	143
number of seats	40 (48 including tip-ups)
standees (4 persons/m ²)	103
vehicle weight	25.5 t
traction:	
- electrical motors	300 kW
- auxiliary autonomous (depending on options)	200 kW

ELECTRICAL/MECHANICAL SPECIFICATIONS

steering	on 4 axles
maximum speed	70 km/h
acceleration rate	1.2 m/s ²
service braking rate	1 m/s ²
emergency braking rate	min. 5.5 m/s ²
gradients	13%
steering axles	All
minimum radius curves	12 m
design life	
(aluminum under frame and car body)	30 years
track:	
- width (straightaway)	3,030 mm
- width (curves of 12 m)	3,420 mm
- guiding rail	central embedded

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