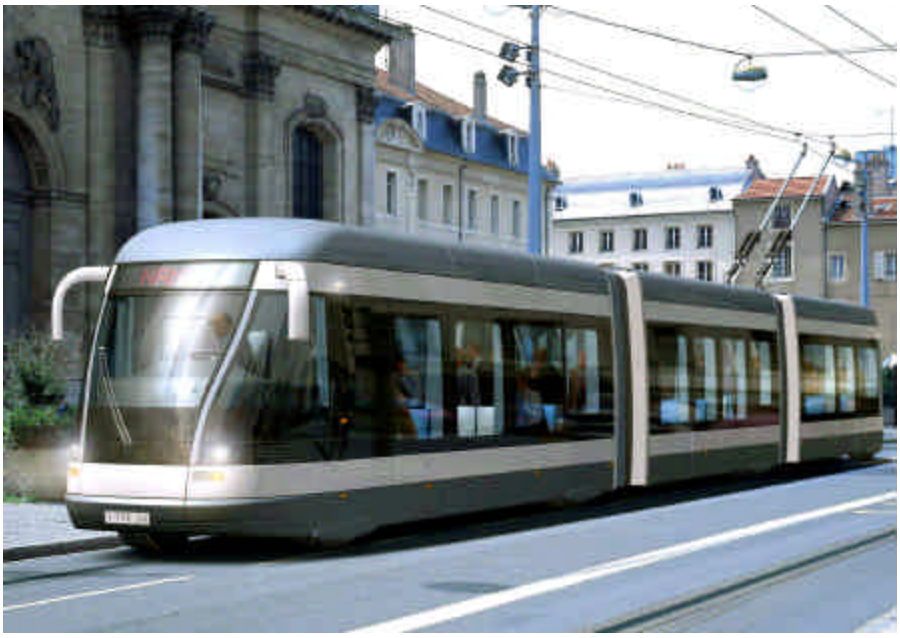
Guided Light Transit System



Guided Light Transit (GLT) offers city planners and developers a new approach to integrating transit within constrained urban areas. Operating on an exclusive right of way, the GLT tram runs on rubber tires and is guided during street operation by a single center beam set into the roadway. In addition, GLT requires less infrastructure than traditional trams, because it uses only one center beam (rather than two rails) and needs no special maintenance facilities.

Capable of operating on street gradients up to 13% and negotiating 39-foot radius curves during normal operation, GLT trams offer exceptional urban maneuverability. Propulsion is electric via an overhead catenary system, while auxiliary diesel-electric power permits movement to and from off-line maintenance facilities.

Similar in appearance to a European street tram, the stylish, articulated vehicles meet high comfort standards for passengers with 100% low floors and air-conditioned interiors. Wide panoramic windows allow passengers unobstructed views of the cityscape. In 1998, Bombardier supplied 25 trams to Nancy, France, which operate on the city's existing trolleybus network. A similar system with 24 trams opened in November 2002 in Caen, France.

BOMBARDIER TRANSPORTATION

BOMBARDIER

GENERAL DATA

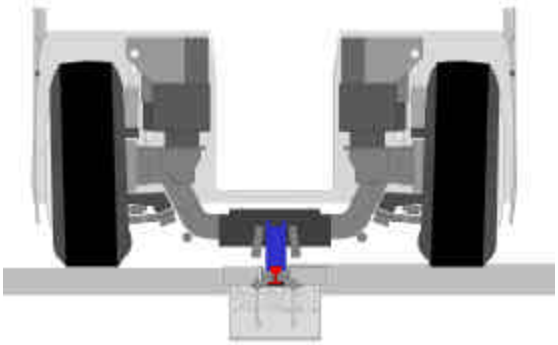
TYPE OF VEHICLE
Guided Light Transit (GLT)

DIMENSIONS & WEIGHT

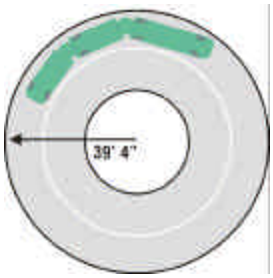
LENGTH
24.5 m / 80' 5"
WIDTH
2.5 m / 8' 2 1/2"
ROOFTOP TO TOP OF RUNNING SURFACE
3.38 m / 11' 2"
FLOOR TO TOP OF RUNNING SURFACE
0.320 m / 12 1/2"
INTERIOR FLOOR TO CEILING
2.4 m / 7' 10 1/2"
DOORWAY WIDTH
2.6 m / 8' 6"
DOORWAY HEIGHT
2.03 m / 6' 8"
NOMINAL WHEEL TRACK
1.95 m / 6' 4 3/4"
VEHICLE WEIGHTS
empty AW0: 27,000 kg / 59,500 lb
maximum: 38,500 kg / 84,800 lb

TECHNICAL CHARACTERISTICS

POWER DISTRIBUTION
750 Vdc
PROPULSION SYSTEM
AC traction motors
VEHICLE GUIDANCE
center beam or unguided
BRAKING
dynamic regenerative drum
SUSPENSION
pneumatic
TRUCKS
four single axle bogies
LOAD TIRES
8 per vehicle with internal run-flat
GUIDE WHEELS
two per axle - solid steel
EMERGENCY BRAKING
drum
CARBODY
aluminum
WINDOWS
fixed, tinted glazing
DOORS
4 per vehicle



Central Guiding System



Turning radius

PERFORMANCE & CAPACITY

MAXIMUM DESIGN SPEED
70 km/h / 43 mph
ACCELERATION RATE
limited to 1 m/s^2 / 2.2 mphps
MINIMUM HORIZONTAL CURVE RADIUS
12 m / 39' 4"
MAXIMUM SUSTAINED GRADIENT
13%
NOMINAL PASSENGER CAPACITY
143

WHEELCHAIR LOCATIONS
2 or 4 per vehicle
(depending on configuration)
SEATED PASSENGERS
48 or 55
(depending on configuration)
CAPACITY
@ 4 pass./m^2 (2.7 sq. ft./pass.)
143 or 147 (depending on configuration)
@ 6 pass./m^2 (1.8 sq. ft./pass.)
178 or 213 (depending on configuration)

BOMBARDIER TRANSPORTATION

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