

FLEXITY Outlook Innsbruck, Austria



Bombardier supplies to the Innsbruck transport authority (IVB) 32 trams of the **BOMBARDIER* FLEXITY* Outlook** family. The new 100% low-floor vehicles will gradually replace the old fleet and be put in operation on the city's tram network and the 'Stubaitalbahn' line.

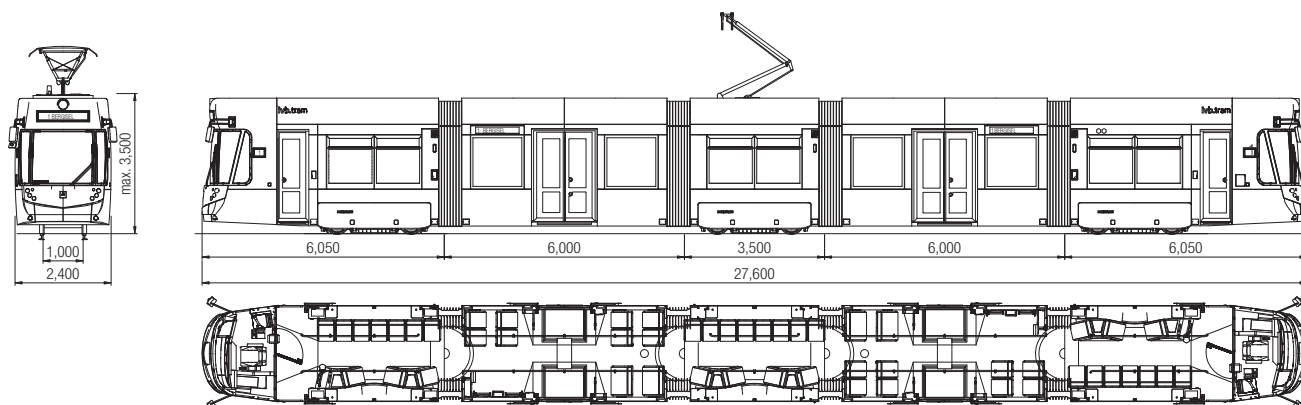
The new trams for Innsbruck impress with comfort features such as level entrances which give passengers with impaired mobility easy and effortless access. The vehicles also feature sufficient room for prams and wheelchairs as well as an airconditioned interior. Based on Bombardier's innovative concept, which allows the use of conventional wheel-set

bogies in a 100% low-floor vehicle, the trams are characterised by an exceptionally quiet riding behaviour and a step-less interior. Special emphasis has been put onto the safety of passengers and drivers. The driver's cab resists a buffer load of 40 tons and the steel-structure, which has been raised up to the side walls, guarantees optimal protection in case of a side-impact.

The modern *FLEXITY Outlook* trams are designed in the colours of the operator IVB and mirror the contemporary urban transport concept for Innsbruck and the region.

FLEXITY Outlook

Innsbruck, Austria



General Data

First contract award	October 2005
Type of vehicle	<i>BOMBARDIER FLEXITY Outlook</i>
Model	bi-directional
Owner	Innsbrucker Verkehrsbetriebe und Stubaitalbah n GmbH (IVB)
Quantity	32
Train consist	5 modules

Dimensions and Weight

Length of vehicle	27.6 m
Height	3.5 m
Width	2.4 m
Floor height above TOR	320 mm
• low-floor entrance	
Percentage of low-floor area	100 %
Doors	
Electric double-sliding doors	2 per side
• door clearance height	2,070 mm
• door clearance width	1,300 mm
Electric single-sliding doors	2 per side
• door clearance height	2,070 mm
• door clearance width	650 mm
Aisle width	490 mm
Wheel diameter (new / worn)	560 / 500 mm
Bogie center distance	9,500 mm
Gauge	1,000 mm
Minimum horizontal curve radius	17.5 m
Minimum vertical curve radius crest	200 m
Minimum vertical curve radius sag	200 m
Car weight (empty)	37.9 t
Car weight (loaded) (4 pass./m ²)	49.8 t
Maximum axle load	9.1 t
Buffer Load	400 kN

Technical Characteristics

Nominal current supply: 600 / 750 Vdc
Energy recuperation
Low voltage: 24 Vdc
Four 3-phase asynchronous motors
100 kW Motor power
Air-cooled motor
2 powered bogies / 1 trailer bogie
• Rubber/metal primary suspension
• Coil spring secondary suspension
• 4 sanders
• Anti slip, anti skid system
Generative service brake
Electro-hydraulic disc brake system
Magnetic brake: 6 x 81 kN

Performance and Capacity

Maximum speed	70 km/h
Acceleration rate (2/3 load)	1 m/s ²
Deceleration	
• service brake	1.26 m/s ²
• emergency braking rate	2.73 m/s ²
Maximum gradient	60 ‰
Seated passengers (incl. 4 seats for 1.5 persons)	56
Standing passengers (4 pass./m ²)	102
Bicycle, pram and wheelchair locations	2

Bombardier Transportation

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