

FLEXITY Outlook Valencia and Alicante, Spain



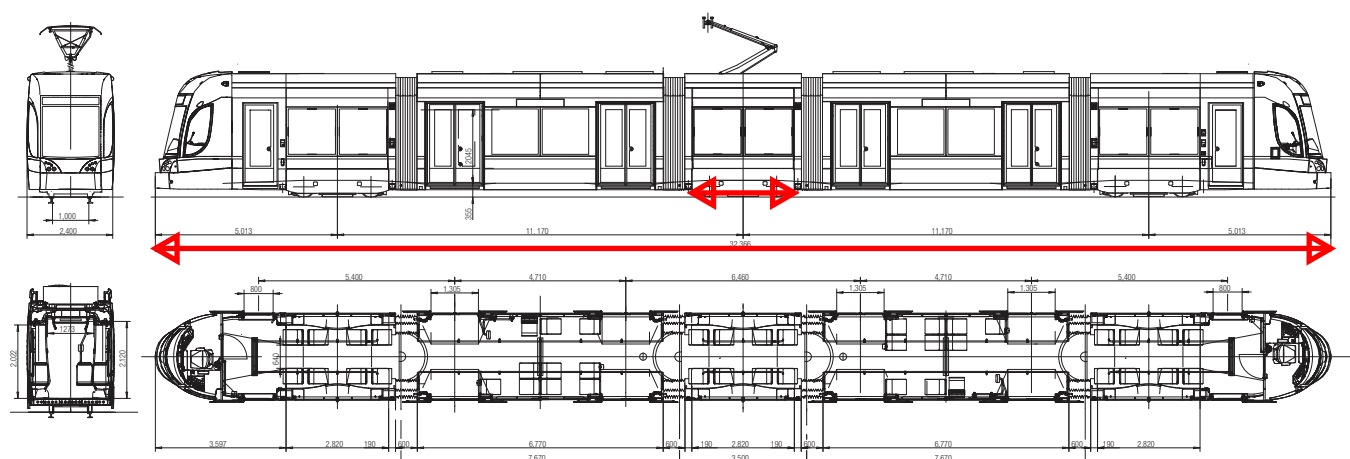
The order for 30 low-floor vehicles by the operator FGV (Ferrocarrils de la Generalitat Valenciana) marks a significant breakthrough for Bombardier in the Spanish trammarket. The 100% low-floor trams of the **BOMBARDIER* FLEXITY* Outlook** family will be put in service in Valencia and Alicante.

The passenger-friendly vehicles feature a thoroughly step-less interior while using conventional wheel-set bogies. The low-floor trams offer entrances at platform level; additionally,

an electric sliding step will facilitate boarding and exiting the vehicle. An especially strong air-condition keeps the temperature low even in midsummer. For the first time the *FLEXITY Outlook* vehicles can be also operated in double traction which allows quick reaction to increasing passenger volumes.

FLEXITY Outlook

Valencia and Alicante, Spain



General Data

Contract award	January 2005
Type of vehicle	<i>BOMBARDIER FLEXITY Outlook</i>
Model	bi-directional
Owner	Ferrocarrils de la Generalitat Valenciana (FGV)
Quantity	30 (19 for Valencia, 11 for Alicante)
Train consist	5 modules

Dimensions and Weight

Length of vehicle	32.37 m
Height	3.55 m
Width	2.4 m
Floor height above TOR	
• low-floor entrance	350 mm
Percentage of low-floor area	100 %
Doors	
Electric double-sliding doors	4 per side
• door clearance height	2,052 mm
• door clearance width	1,305 mm
Electric single-sliding doors	2 per side
• door clearance height	2,052 mm
• door clearance width	800 mm
Aisle width	640 mm
Wheel diameter (new / worn)	570 / 510 mm
Gauge	1,000 mm
Minimum horizontal curve radius	25 m
Minimum vertical curve radius, crest	500 m
Minimum vertical curve radius, sag	500 m
Car weight (empty)	41.6 t
Car weight (loaded) (4 pass./m ²)	55 t
Maximum axle load	10.4 t
Buffer load	400 kN

Technical Characteristics

Nominal current supply: 750 Vdc
Energy recuperation
Low voltage: 24 Vdc
Four 3-phase asynchronous motors
4 x 105 kW Motor power
Air-cooled motor
Two powered bogies / one trailer bogie
• Rubber/metal primary suspension
• Coil spring secondary suspension
• 8 sanders
• Flange lubrication device
• Anti slip, anti skid system
Electrodynamic regenerative service brake
Disk brake: electrohydraulic spring operated brake
Magnetic brake: 6 x 66 kN

Performance and Capacity

Maximum speed	70 km/h
Medium acceleration	1.2 m/s ²
Deceleration	
• service brake	1.2 m/s ²
• emergency brake	2.6 m/s ²
Maximum gradient	60 ‰
Seated passengers	50 (incl. 6 tip-up seats)
Standing passengers (4 pass./m ²)	150
Multipurpose Areas	2

Bombardier Transportation

Hermann Gebauer Straße 5

A-1220 Vienna, Austria

Tel (43-1) 25 110-760

www.bombardier.com

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