

X'TRAPOLIS Mega

Benefitting from the technological expertise acquired from over 30 years of regional transport experience, Alstom, via Gibela joint-venture, expands the X'Trapolis train range with X'Trapolis Mega, the optimal train for the metric gauge market.

HIGHLIGHT

- Up to 30,000 pphpd, multiple doors to ease passenger flow & high rate of acceleration
- Alstom delivered 3,500 regional trains which have covered a total distance of over 5 billion kilometres

General Description

Featuring wide-ranging modularity, high capacity and reliability, the new X'Trapolis Mega addresses the suburban and regional services required by the ever-growing number of commuters while mitigating traffic congestion. A metric gauge train, X'Trapolis Mega can travel at speeds of up to 120 km/h with the ability to upgrade to 160 km/h (with crashworthiness standards).

CUSTOMER BENEFITS

High degree of passenger comfort and convenience

New levels of comfort include full-length connecting gangways, spacious design with 3 wide doors per car and step-free entrances to improve passenger ease of boarding and exiting. In addition, Air-conditioned coaches with ergonomic seat design, Real-time information on board, Wi-Fi Internet access and a combination of direct and indirect lighting based on LED technology increases the sensation of space - and all lead up to a more pleasurable travel experience.

High capacity operation

X'Trapolis Mega was created for high density lines thanks to the train's architecture, high passenger flow and short boarding time.

High reliability & availability

Alstom's well established reputation for reliability and availability: X'Trapolis train fleets continuously reach 97% availability.

Reduced energy consumption

31% consumption saving (compared to existing fleet in service) due to:
-IGBT regenerative braking system associated to 66% motorization ratio
-Lighter train because of its stainless steel bodyshell.



TECHNICAL SPECIFICATIONS

Train length (6 car-train)	131.42 m	
Vehicle width	2.75 m	
Track gauge	1,067 mm	
Number of bogies per vehicle	2	
Number of car body modules per vehicle	6	
Modularity	Design for 4, 5 & 6 car consist, multiple units up to 18 cars	
Floor height	1,100 mm	
Platform height	860 / 1070 mm	
Gangway width	1,350 mm	
Number and type of doors per coach	3 double external sliding doors per side	
Seating configuration	Modular arrangement (longitudinal or transversal seats)	
Passenger Capacity	Seated	From 234 to 380 per vehicle
	(@6 pax/m ²)	Depending on seat arrangement and on option like toilets
	Seated + standing pax	From 1088 to 1218 per vehicle
	Wheelchair	2 per vehicle (compliant TSI-PRM)
	Toilet	2 Universal per trainset
Passenger information equipment	Wifi, CCTV, infotainment, Real time ground communication	
HVAC (Heating, Ventilation & Air Conditioning)	Independent units and controls for passengers and drivers areas	
Signalling System	ERTMS level 2	
Motorization ratio	66% (6 cars unit)	
Maximum speed in service	120 km/h and with crashworthiness designed for 160km/h	
Maximum acceleration	0.85 m/s ²	
Compression load	150 kN	
Crash absorption resistance	Meets EN15227 standard	
Minimum horizontal curve radius	90 m	
Power supply voltage	3kV or 25kV	



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