



PROSPER MULTIPLE UNITS

Urban Version

More space and comfort for your daily commute

The urban version of PROSPER Multiple Units is a versatile option designed to facilitate passenger transportation in cities. Greenfield or systems in recovery can be installed with low operating costs. All this with an innovative, safe and comfortable design for the user.

Marcopolo
RAIL

PROSPER MULTIPLE UNITS

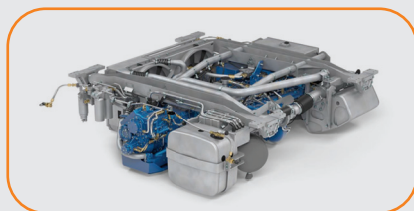
Urban Version

TECHNOLOGY

- Compliance with international railway standards
- One-piece air conditioning system
- Bogies with secondary air suspension
- Large glass area
- Cab with ergonomic headliner
- High customization capacity
- Bidirectional

DIESEL-HYDROMECHANICAL POWERPACK

Composed of a 390 kw @ 1800 rpm horizontal diesel engine with integrated electric generator, 4-speed automatic transmission and reversing gearbox.



ADVANTAGES

- Ease of maintenance and repair
- Lower risk compared to high-voltage equipment
- Low lcc - life cycle cost



The internal layouts are developed according to each project, with a view to passenger comfort and greater use of the passenger area.

2 cars - 360 passengers



3 cars - 560 passengers



4 cars - 760 passengers



TECHNICAL DATA

DMU – Diesel Multiple Units

Operational Unit Composition (TRAM) cars	2	3	4
Car motorization configuration MC = Motor Car \ TC = Trailer Car	MC+MC	MC+TC+MC	MC+TC+TC+MC
Track gauge (mm)	1000 (1435 / 1600 on request)		
Movement	bi-directional		
Number of cabs per tram	2 (two)		
Window material	Polycarbonate / Glass		
Railing and handrail material	Stainless steel		
Approximate length of each carriage	18,000 mm		
Maximum external width	2,900 mm		
Maximum vehicle height	3,900 mm		
Height from floor to rail billet in door area	1,100 mm		
Type of motorization for traction	Diesel-hydraulic		
Maximum axle weight	13000 Kgf		
Door span width	>=1200 mm		
Number of door openings per car side	3 (three)		
Internal circulation between cars	Gangway		
Minimum horizontal curve radius	90 m		
Minimum vertical curve radius	500 m		
Maximum ramp	3%		
Total passenger capacity per tram (6 passengers/m ²)	360	560	760
Seated passenger capacity per tram (6 pass/m ²)	84	128	172
Maximum operating speed	80 Km/h		
Acceleration at start	0.95 m/s ²	0.70 m/s ²	0.55 m/s ²
Deceleration at maximum service	0.8 + 10% - 5% m/s ²		
Emergency deceleration	1.0 ± 10% m/s ²		
Maximum bump level	1.0 m/s ³		



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