

Urban Electric Multiple Unit Train for Rapid Transit

This electric multiple unit (EMU) train is designed for urban rapid transit systems. It features a streamlined exterior, large passenger windows, and advanced signaling for efficient operation.



Overview

High-Efficiency Urban Rapid Transit EMU

This Urban Electric Multiple Unit (EMU) train is engineered for high-capacity passenger transport in rapid transit environments. Featuring a 6-car marshalling configuration, it offers exceptional flexibility for urban networks with a design speed of 90km/h. Designed with passenger safety and efficiency in mind, the unit provides high acceleration and braking performance suitable for frequent-stop transit operations.

Technical Specifications

Track Gauge	1435 mm
Max Axle Load	16 t
Power Supply	DC1500V Elevated Catenary

Dimensions

Physical Dimensions

Parameter	Value	Unit
Length	22800	mm
Width	3000	mm
Height	3800	mm
Wheelbase	2500	mm

Performance

Speed Performance

90 km/h

Design Speed

80 km/h

Max Service Speed

Acceleration & Braking

- Mean initial acceleration (0-35km/h): $e1.0m/s^2$
- Mean service brake deceleration (80km/h-0): $1.0m/s^2$
- Mean emergency brake deceleration (80km/h-0): $e1.3m/s^2$
- Jerk limit: $0.75m/s^3$

Capacity

Passenger Capacity

- Seating: 384 P/Train
- Fixed capacity AW2 (6P/m²): 2464 P/Train
- Fixed capacity AW3 (9P/m²): 3278 P/Train