

Urban Electric Multiple Unit Train

This electric multiple unit (EMU) train is designed for urban transportation. It features advanced signaling and control systems for safe and efficient operation.



Overview

Urban Electric Multiple Unit Train

This Urban Electric Multiple Unit (EMU) train is engineered for high-efficiency mass transit, featuring a robust design capable of supporting up to 1580 passengers in high-density scenarios. With a design speed of 90km/h and optimized acceleration capabilities, it ensures reliable service for urban transport networks. The train is built with a standard 1435mm gauge and is powered by an elevated catenary AC20500V system, making it a versatile solution for modern city rail infrastructure.

Performance Metrics

Performance Highlights

1.1 m/s²

Initial Acceleration

0.75 m/s³

Jerk Limit

Design Speed 90 km/h

Max Service Speed 80 km/h

Dimensions and Weight

Vehicle Dimensions

Dimension	Value	Unit
Length	22000	mm
Width	3200	mm
Height	4090	mm

Axle Load d17

Capacity

Passenger Capacity

- Seating: 200P/Train
- AW2 (6P/m²): 1180P/Train
- AW3 (9P/m²): 1580P/Train

Technical Specifications

Power Supply	Elevated catenary AC20500V
Track Gauge	1435 mm
Train Marshalling	4/6 Cars

Braking Performance

Braking Deceleration

Brake Type	Deceleration Rate
Mean Service Brake (80km/h-0)	d1.2m/s ²
Mean Emergency Brake (80km/h-0)	d1.3~1.4m/s ²

Bogie and Wheel

Bogie and Wheel Specs

- Distance between bogie centers: 15000mm
- Wheelbase: 2500mm
- Wheel diameter (New/Worn): 1860/780mm