

Six-Axle AC Electric Locomotive

This AC transmission electric locomotive is specifically designed for Uzbekistan International Railways. It is used for both passenger and freight transportation.



Overview

High-Performance Six-Axle Electric Locomotive

This six-axle AC electric locomotive is engineered for heavy-duty freight and passenger transport, operating efficiently on 1520mm gauge tracks. Featuring an advanced AC-DC-AC transmission system and a continuous power output of 6000KW, it provides reliable performance across diverse terrains. With a maximum running speed of 120km/h and regenerative braking capabilities, this locomotive combines high traction effort with energy-efficient operation.

Technical Specifications

Axle Arrangement	Bo-Bo-Bo
Track Gauge	1520 mm
Service Weight	138 t
Axle Load	23 t

Performance Metrics

Key Performance Metrics

6000 KW

Continuous Power

120 km/h

Max Speed

450 kN

Starting Traction Effort

Continuous Traction Effort	410 kN
Continuous Power Speed Scope	53km/h - 120km/h

Electrical Systems

Transmission Mode	AC-DC-AC
Power Supply	Single phase 50Hz

Braking System

Braking Performance

- Electric braking effort: 285KN
- Braking power at wheel rim: 5400KW

Electric Braking Mode	Regenerative brake
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Dimensions

Total Wheelbase

17200 mm