

Meter-Gauge Diesel-Electric Locomotive

This meter-gauge diesel-electric locomotive is designed for light axle load railways. It is suitable for passenger and freight operations on narrow-gauge tracks.



Overview

Meter-Gauge Diesel-Electric Locomotive

This meter-gauge diesel-electric locomotive is engineered for reliable performance on light axle load railways, suitable for both passenger and freight operations. It features a robust AC-DC electric transmission system powered by a high-efficiency diesel engine. Equipped with an advanced microcomputer control system, it ensures operational safety through integrated failure diagnosis capabilities.

Technical Specifications

Diesel Engine	CAT3508B
Main Generator	JF217C
Traction Motor	YZ34C
Transmission	AC-DC Electric

Performance Metrics

Key Performance Metrics

880 KW

Max Output Power

100 Km/h

Max Speed

149 kN

Max Starting Traction

Continuous Speed	19.4 Km/h
Continuous Tractive Force	110 kN

Dimensions & Configuration

Locomotive Dimensions

Parameter	Value
Length (between coupler centers)	15300 mm
Width	d 2850mm
Height (excluding horn)	d 3700mm

Weight Specifications

- Axle load: 15 ± 3% t
- Calculated weight: 60 ± 3% t

Axle Arrangement	Bo-Bo
Gauge	1000 mm

Operational Capabilities

Min. Negotiable Curve Radius	80 m
Intended Use	Main line passenger, Freight