

# Narrow-Gauge Diesel-Electric Locomotive for Passenger and Freight Transport

The narrow-gauge diesel-electric locomotive is designed for trunk line passenger and freight transportation. It is produced to meet specific technical requirements.



## Overview

### Versatile Narrow-Gauge Performance

This diesel-electric locomotive is engineered for both passenger and freight transport on 1,065 mm narrow-gauge rail networks. It features a robust single-cab design with an exterior aisle and is powered by a high-performance US CAT3516B engine. Equipped with advanced microcomputer control systems, rheostatic braking, and a Co-Co axle arrangement, it offers reliability across diverse environmental conditions.

## Technical Specifications

### Engine Metrics

**1678 kW**

Rated Power (UIC)

**1800 rpm**

Engine Speed

### Dimensional Data

| Parameter             | Value    |
|-----------------------|----------|
| Gauge                 | 1065 mm  |
| Service Weight        | d 11 t   |
| Axle Load             | d 18.5 t |
| Wheel Base            | 1650 mm  |
| Bogie Center Distance | 9300 mm  |

### Operating Capabilities

- Max Speed: 120 km/h
- Min Negotiable Curve Radius: 90 m
- Axle Arrangement: Co-Co

## Operating Environment

### Service Conditions

Temperature -5 to +45°C, Altitude up to 2000m, Relative Humidity up to 98%