

4-Cylinder Diesel Engine

This light-duty motor vehicle diesel engine is designed for automobile and locomotive applications. The 4F series engine meets State IV emission standards.



ADDITIONAL IMAGES



Overview

High-Efficiency 4F Series Diesel Engine

The 4F series is a robust 3.8L light-duty diesel engine designed for versatility in automotive and locomotive applications. Engineered for performance, it features advanced electronic high-pressure common-rail technology, turbocharging, and intercooling to deliver reliable power ranging from 85 to 100 kW. This engine is optimized for 4-8 ton trucks and 5-8 meter buses, offering a balance of high efficiency, low emissions, and reliable operation.

Technical Specifications

Displacement	3.857 L
Cylinder Configuration	4-Cylinder
Bore & Stroke	102*118
Fuel System	High-pressure common-rail
Intake System	Turbocharged and inter-cooled

Performance Metrics

Rated Output

85 kW Min Rated Output	100 kW Max Rated Output
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Rated Speed	2800 rpm
Max Torque	320~400 N.m @ 1600~1800 rpm

Compliance & Features

Emission Standard

State Four

Key Features

- Water-cooled EGR system
- Electronic controlled high-pressure common rail
- Finite element analysis for low noise and high reliability
- Easy cold start with pre-heat in cylinder
- Compact structure with automatic tensioner