

# 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

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>85 kW</b><br>Min Rated Output | <b>100 kW</b><br>Max Rated Output |
|----------------------------------|-----------------------------------|

|             |                             |
|-------------|-----------------------------|
| 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