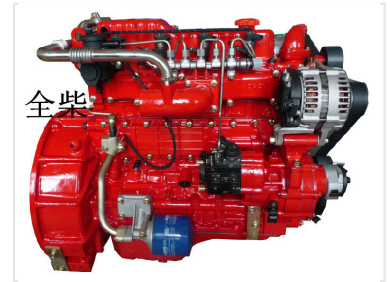


## 3.857L 85-100kW Diesel Engine for Automotive and Locomotive Applications

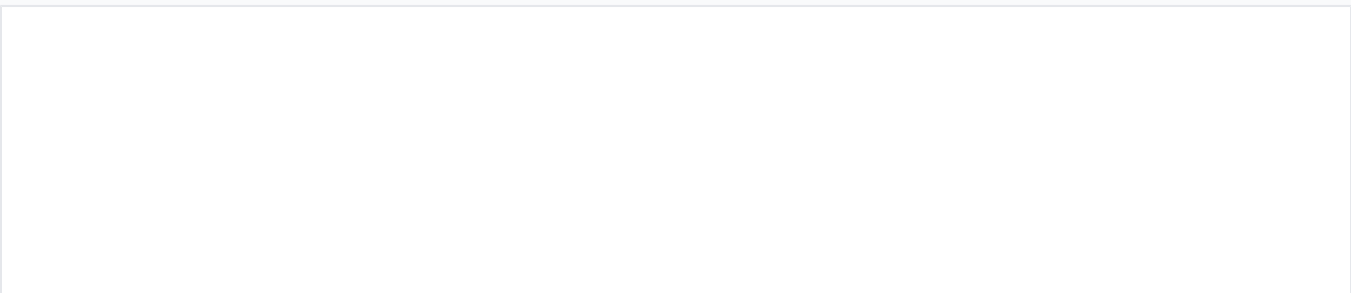
This 3.857L diesel engine provides 85-100kW of power at 2800rpm. It is designed for use in automobiles and locomotives.



### ADDITIONAL IMAGES



### Product Overview



Compact and efficient design suitable for medium-duty trucks and buses.

### High-Performance 4F Series Diesel Engine

The 4F series is a 3.857L automotive diesel engine designed for 4-8T trucks and 5-8M buses. Developed with advanced electronic controlled high-pressure common rail technology, it offers a power range of 85-100kW. This engine combines turbocharging and intercooling with a water-cooled EGR system to deliver high efficiency, low emissions, and reliable performance for demanding automotive and locomotive applications.

## Performance Metrics



Engineered for strong power and low fuel consumption in vehicle applications.

### Key Performance Metrics

**100 kW**

Max Power

**3.857 L**

Displacement

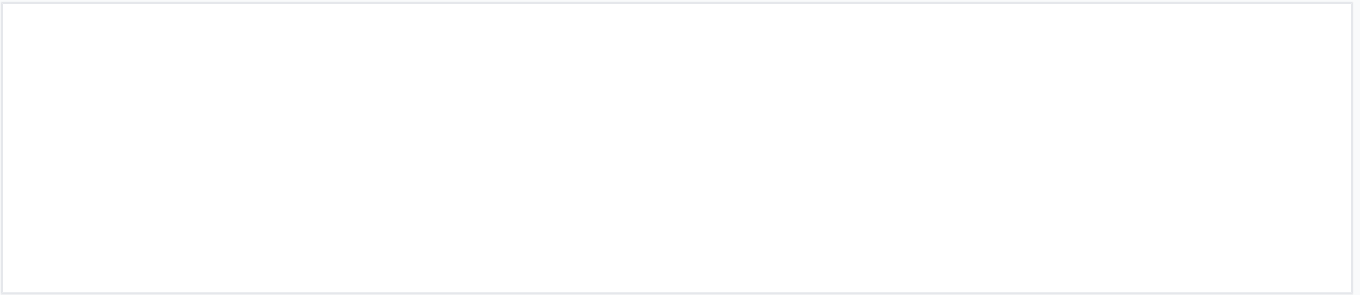
**400 N.m**

Max Torque

**2800 rpm**

Rated Speed

## Technical Specifications



The 4F series engine features a robust 4-cylinder design with integrated cooling fan and alternator.

### Engine Layout

Parameter	Details
Model	4F
Cylinder Configuration	4 Cylinders
Bore x Stroke	102 x 118 mm
Intake System	Turbocharged and Inter-cooled
Fuel System	High-pressure common-rail (BOSCH)
Emission Standard	State IV / State Four

## Output Ratings

### Output Ranges

Metric	Range
Rated Output (kW)	85 ~ 100 kW
Rated Output (Ps)	110 ~ 135 Ps
Max Torque (N.m)	320 ~ 400 N.m
Torque Speed Range	1600 ~ 1800 rpm

## Key Features & Technology

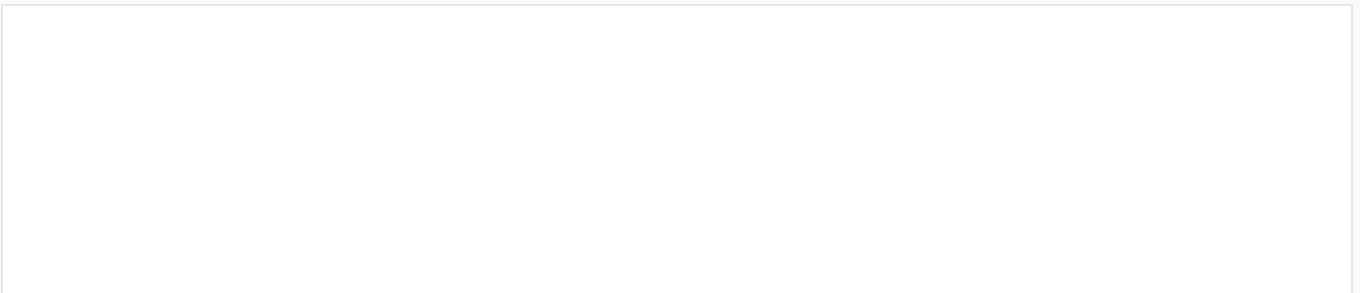


Detail view of the high-pressure common rail fuel system and filtration components.

### Advanced Features

- BOSCH electronic controlled high-pressure common rail system
- Water-cooled Exhaust Gas Recirculation (EGR)
- Double DOC or DOC + POC emission control
- Finite element analysis (FEA) of key structural parts
- CFD, CAE, and ID optimized cooling and air supply systems
- Advanced friction pair technology for reduced fuel consumption
- Low noise and high reliability design

## Applications



The engine is designed for reliability in demanding industrial and automotive environments.

### Suitable Applications

4-8T Trucks, 5-8M Buses, Automobile Locomotives, Industrial Vehicles