F-DIESEL Group

— Focused on the sales and technical services of engine components



2026

Company Overview

F-DIESEL is committed to becoming a leader in the overseas supply of engine components



- Founded in 1999
- Number of employees: 60
- Annual sales: 500 million CNY

- Holding holding shares: 8 companies
- Main business: Engine components
- Industry Association: Executive director unit of the Commercial Vehicle Federation

Technology and supply chain solution provider

↑

An integrated industrial & trade group

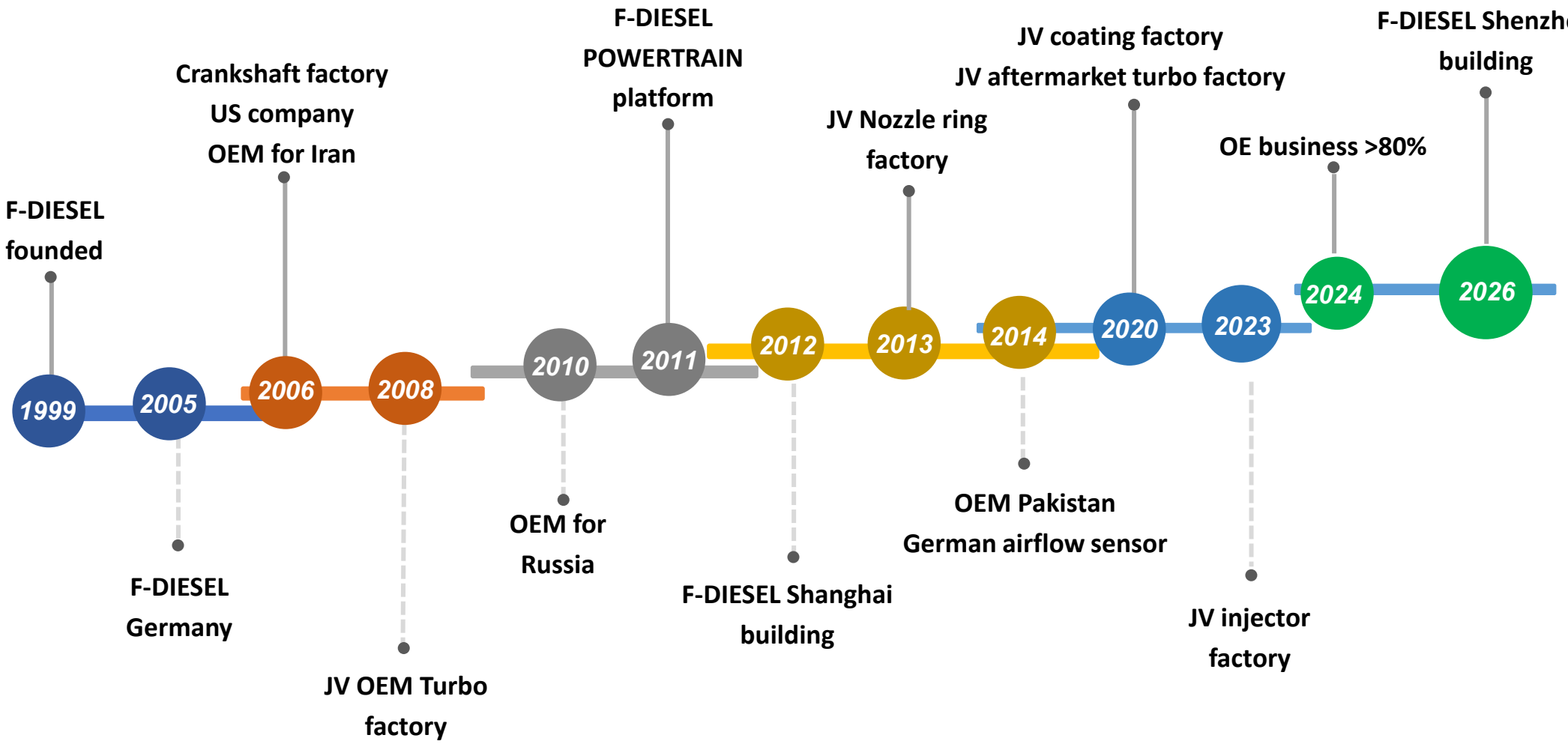
↑

One stop solution for overseas aftermarket

↑

Trading company

Milestone


1999
F-DIESEL founded
2005
F-DIESEL Germany
2006
Crankshaft factory
US company
OEM for Iran
2008
JV OEM Turbo factory
2010
OEM for Russia
2011
F-DIESEL POWERTRAIN platform
2012
F-DIESEL Shanghai building
2013
JV Nozzle ring factory
2014
OEM Pakistan
German airflow sensor
2020
JV coating factory
JV aftermarket turbo factory
2023
JV injector factory
2024
OE business >80%
2026
F-DIESEL Shenzhen building

Shanghai Office





Address: Building 9, No. 365 Lianyang Road, Songjiang District, Shanghai 201613









Shenzhen Office

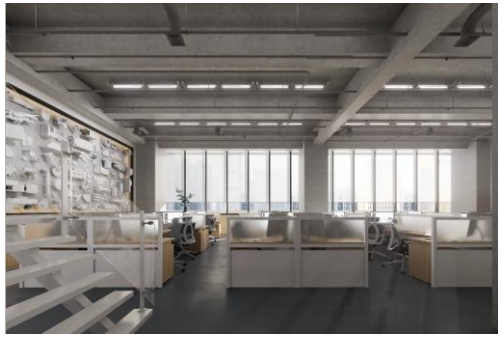






Address: Room 203, Building 1, Runzhi R&D Center, Bao'an District, Shenzhen 518101

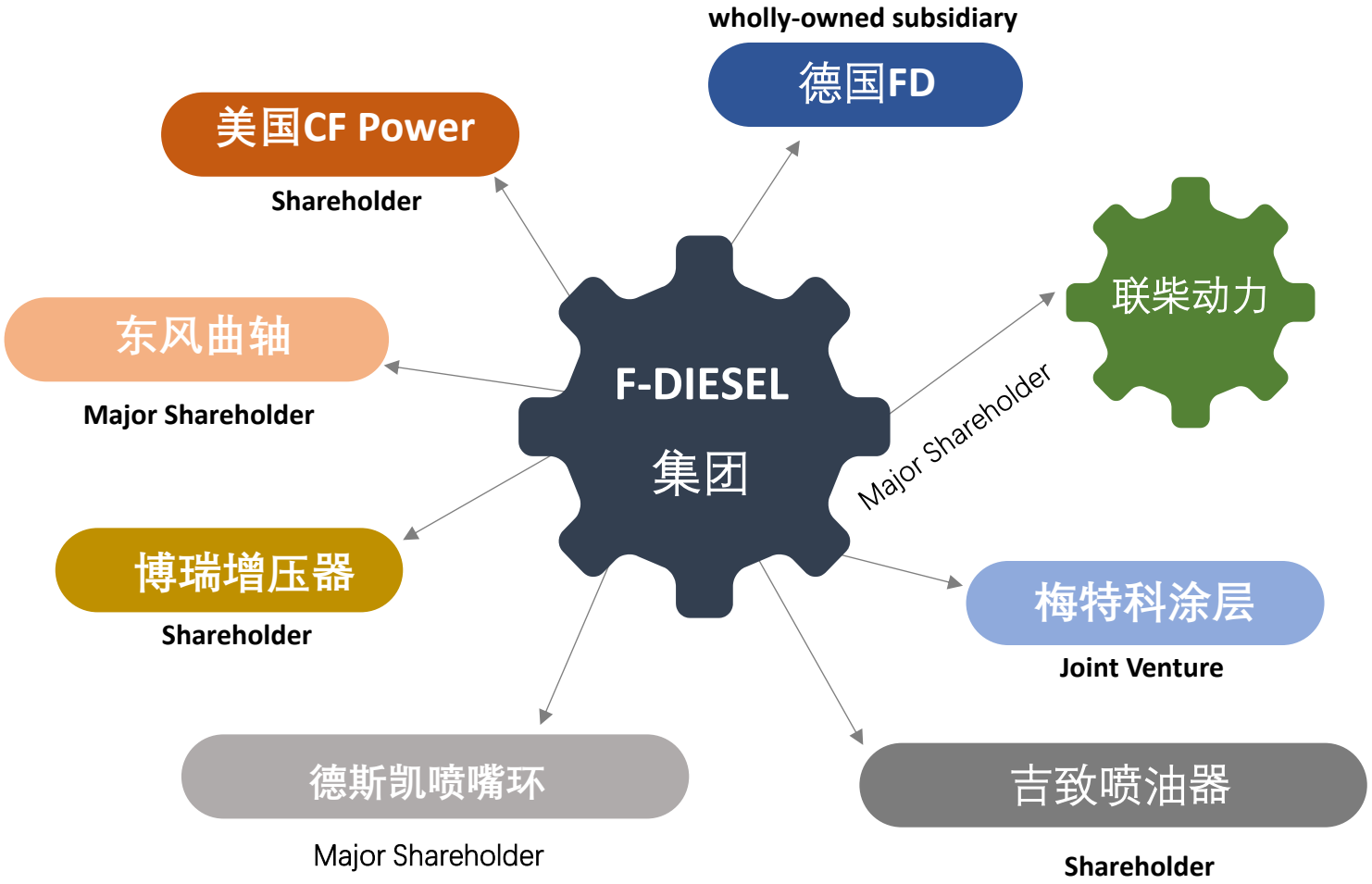








Group members



Group members



Germany FD

- ✓ Located in Frankfurt, covering all of Europe
- ✓ Introduction of new products and technologies
- ✓ Localized technical support and after-sales service



US CF Power

- ✓ Located in Los Angeles, covering the entire United States
- ✓ Aftermarket for turbochargers
- ✓ Localized inventory, technical support, and after-sales service



XTDF Crankshaft factory

- ✓ Forged steel crankshaft + cast iron crankshaft, annual production of 150,000 units
- ✓ Domestic Hosts (Yuchai, Beinei)
- ✓ Overseas after-sales service (complete export models)

Group members



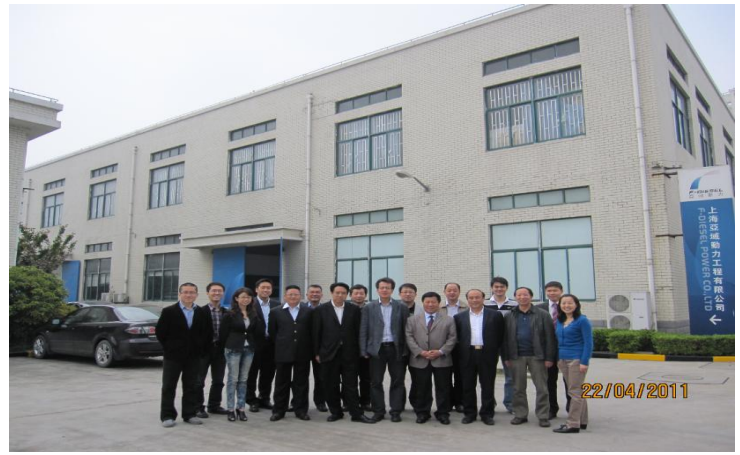
JZ Injector

- ✓ A professional manufacturer of injectors
- ✓ CUMMINS, MTU, and other heavy-duty series



Techsky Nozzle ring

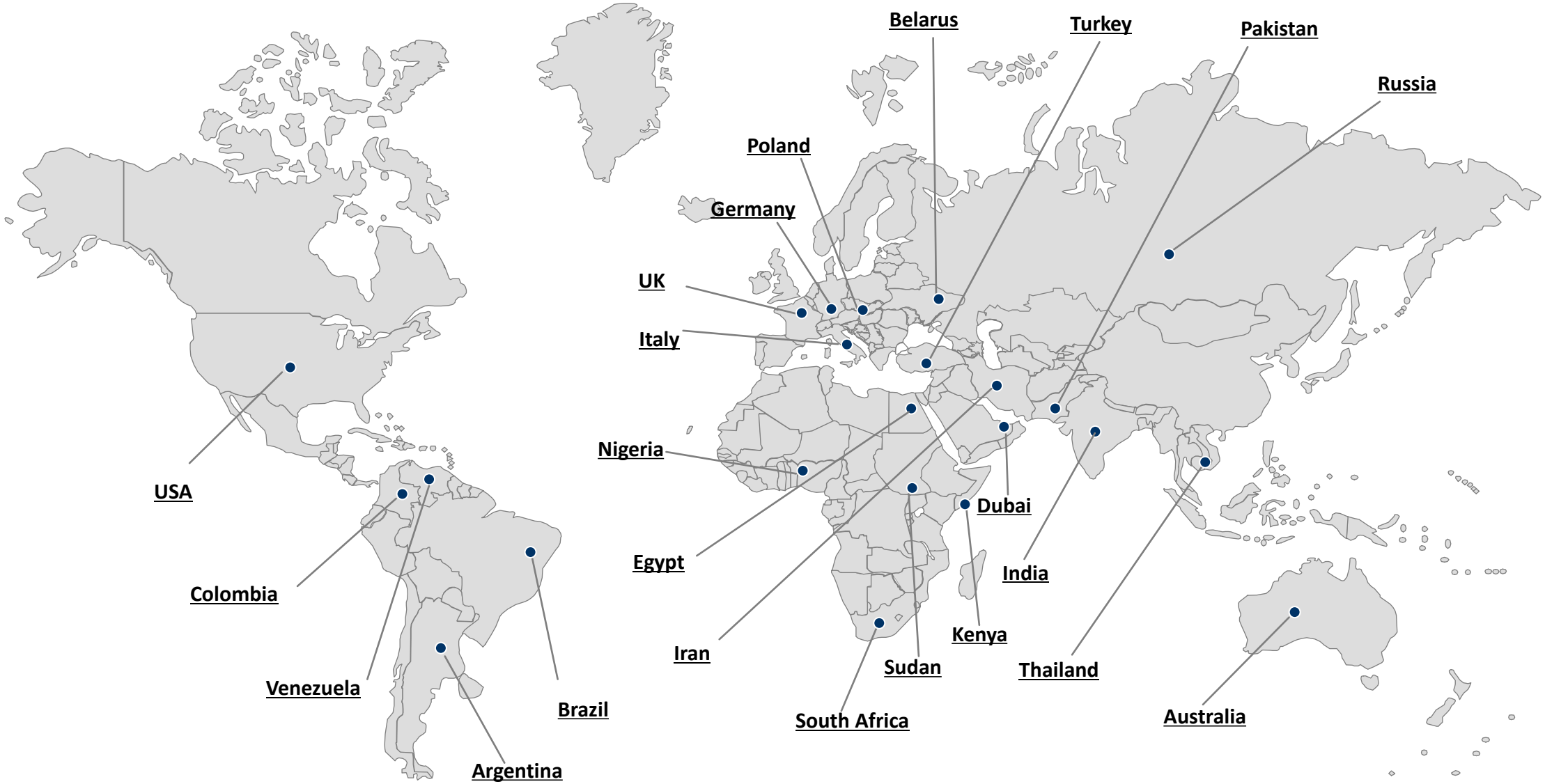
- ✓ A professional manufacturer of precision machined components for turbochargers
- ✓ Supplied by mainstream domestic turbocharger manufacturers
- ✓ Nozzle rings, floating bearings, vent valve assemblies, etc



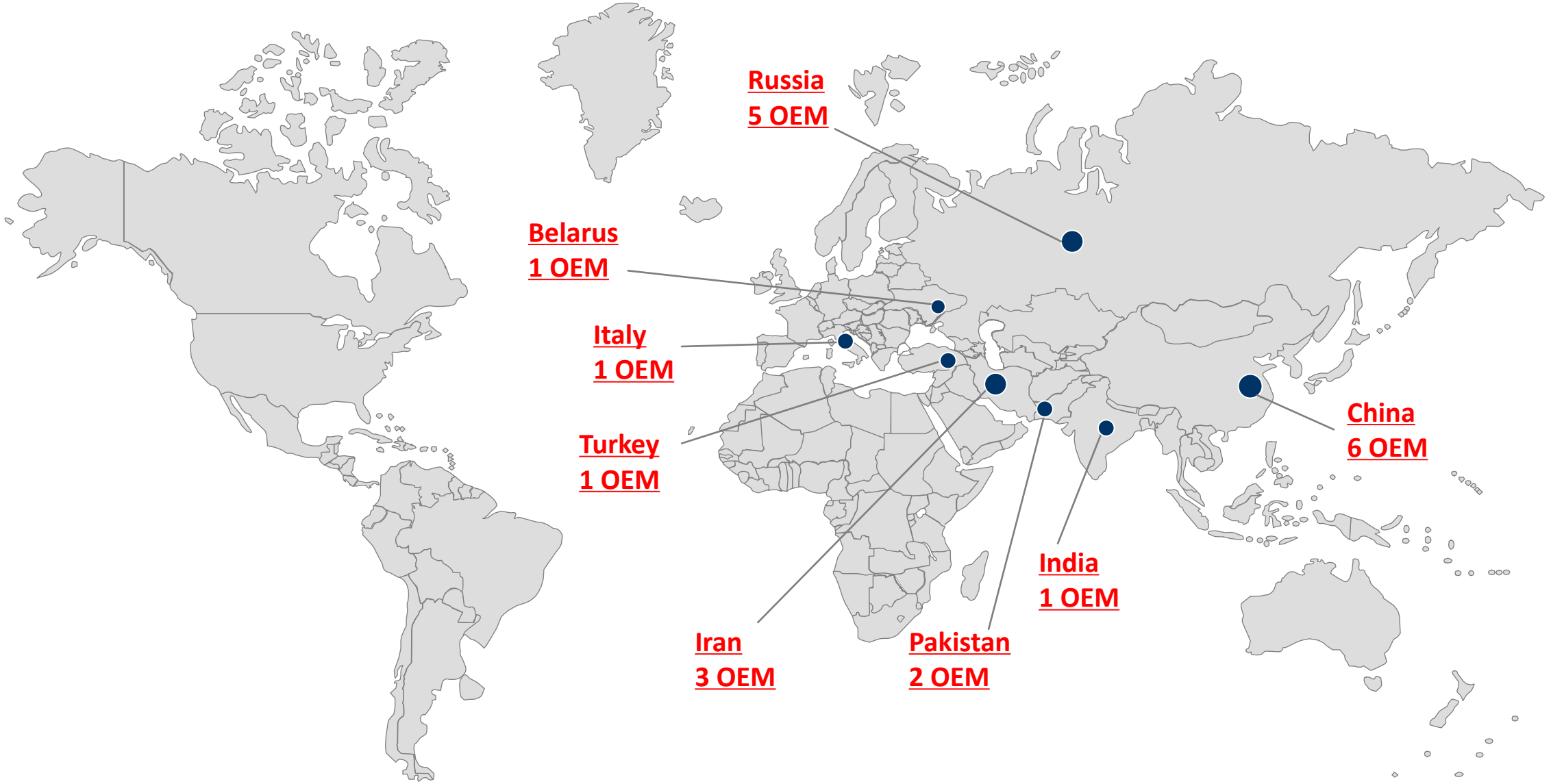
F-DIESEL Powertrain

- ✓ Platform Shareholders: Domestic professional OEM suppliers
- ✓ Target market: Overseas hosting equipment
- ✓ Product series: cylinder block, cylinder head, crankshaft, valve, and four supporting components

Global partners



OEM customers



OEM customers

F-DIESEL

中国一汽

云内动力 YUNNEI POWER

CNHTC 中国重汽 SINOTRUK

东风商用车 DONGFENG TRUCKS

玉柴机器 YC DIESEL

YTO 中国一拖 YTO GROUP

新柴

常发农装 CHANGFA AGRICULTURAL EQUIPMENT

KAMAZ

LADA

sollers

GAZ

МИНСКИЙ МОТОРНЫЙ ЗАВОД

I.D.E.M
شرکت تولید موتورهای دیزل ایران
تحت لیسانس مرسدس بنز آلمان

شرکت موتورسازان تراکتورسازی ایران
MS.I.T.M.CO.

IKCO
IRAN KHODRO CO

SDF
Farming Technology. Since 1927.

AGTL

MTL
MILLAT TRACTORS LIMITED

Overseas OEM customers

Russia









Business negotiations

Overseas OEM customers

Russia







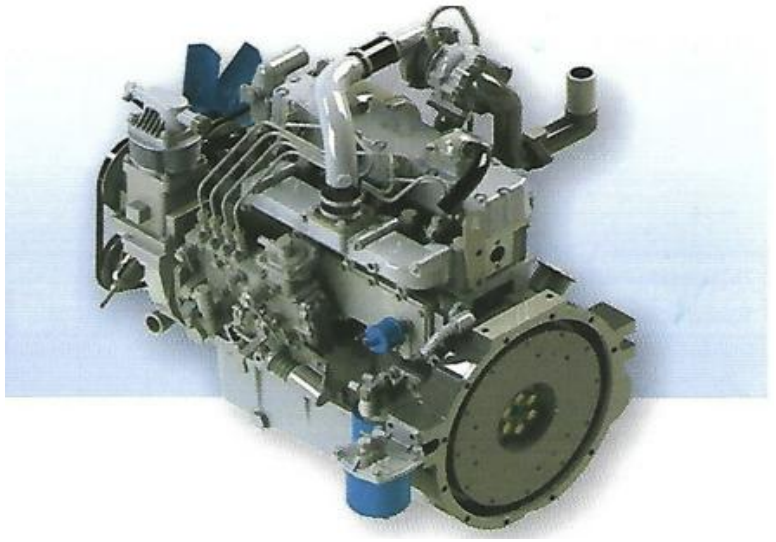


Vehicles

Overseas OEM customers

Belarus









Business negotiations & Vehicles

Overseas OEM customers

Iran









Business negotiations

Overseas OEM customers

Iran









Vehicles

Overseas OEM customers

Pakistan





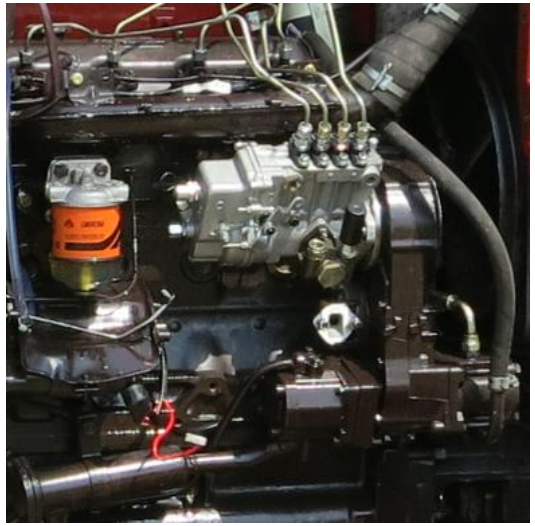




Business negotiations

Overseas OEM customers

Pakistan









Vehicles

Overseas OEM customers

Italy







Italy's SDF Group is a globally renowned agricultural machinery manufacturer, specializing in the research, development, and production of high-performance agricultural equipment, holding an important position in the European agricultural machinery sector. Its brands include DEUTZ-FAHR, SAME, and Lamborghini, covering product lines ranging from 25 to 336 horsepower, with nine production sites worldwide.

Domestic OEM customers





中国一汽

YUNNEI POWER

CNHTC 中国重汽 SINOTRUK

东风商用车 DONGFENG TRUCKS

玉柴机器 YC DIESEL

新柴

YTO 中国一拖 YTO GROUP

常发农装 CHANGFA AGRICULTURAL EQUIPMENT

Domestic OEM customers

China VI road projects

- SINOTRUCK：
  MC13/MC11/MC09
  MC07/MC05
- FAW:
  4DB、6SM3/6SL（CNG）
  4DD/4DH/4DK/6DH/6DK
- DFAC:
  DDi13
- Yunnei:
  D45/D40/D30/D25/D20
  D36
- Shanghai Diesel
  SC12ET（CNG）
- Weichai
  WP7/WP10H（CNG）
- Cummins China：
  10L new designed engine

China VI off road projects

- Yuchai Diesel：
  A05/DK04
  V25/V28/V31/V42/V46
- Quanchai Diesel:
  4B/4C/4F/4G/4J/4G/4M
- Xinchai Diesel:
  3E/4D/4E/4K/6F
- Changfa:
  495/498/4108
- YTO:
  YTN5/YTN7

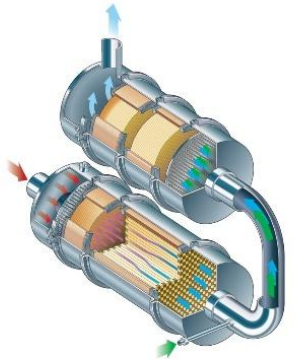
Products and technical services



TURBOCHARGING SYSTEM

WG Turbo, VNT Turbo, E-VNT turbo,
Gas Engine Turbo





AFTERTREATMENT SYSTEM

TWC, DOC, SCR, DPF to reduce
HC, CO, NOx and PM



COMMON RAIL SYSTEM

Rotary Pump, Inline pump, common rail,
E-injector, ECU

- Simultaneous development ability from the very beginning when design engine
- Professional team for design and service
- Strong support of mass production





Products and technical services

01
动力系统
Powertrain parts

02
增压系统
Turbo system & parts

03
燃油系统
Injection system & parts

04
后处理系统
Aftertreatment system & parts

05
密封系统
Sealing system parts

06
电驱与电子系统
E-control & electronic system parts

Powertrain components

- **5C parts**











Powertrain components

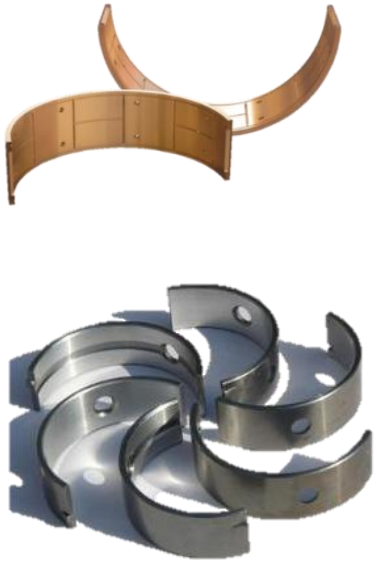
- **Piston sets etc.**



Piston sets



Engine valves



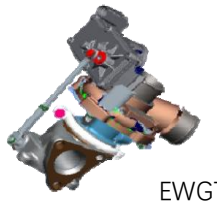
Engine bearings

Turbocharging system

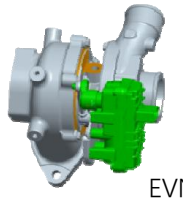
➢ Product range

Diesel engine turbochargers


WGT


EWGT


VNT


EVNT



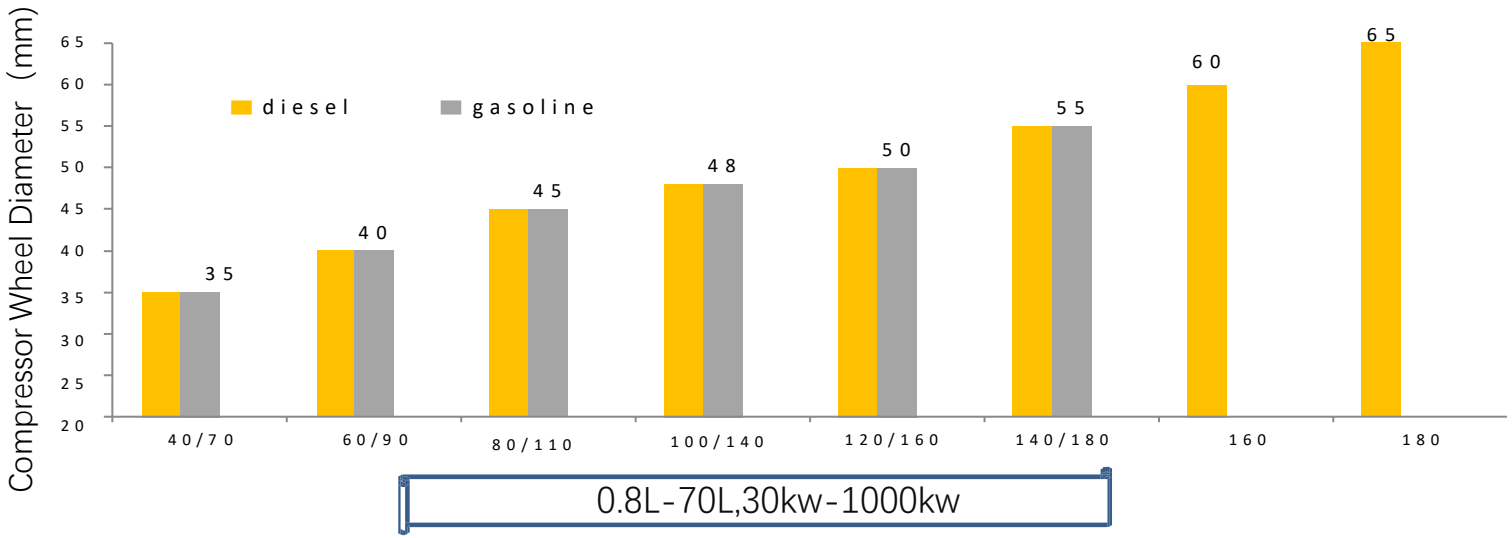
Gasoline engine turbocharger


PWM Valve Control TC


E-actuator Control TC


Integrated-manifold TC





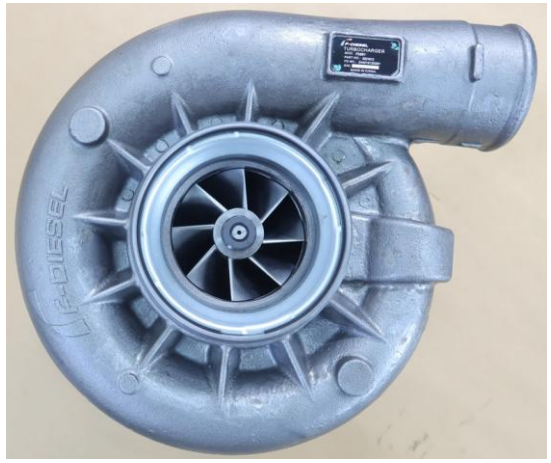
Turbocharging system

➢ **Turbocharger**





Gasoline engine





Diesel engines

Turbocharging system

- **Turbo parts**



CHRA



Repair kits





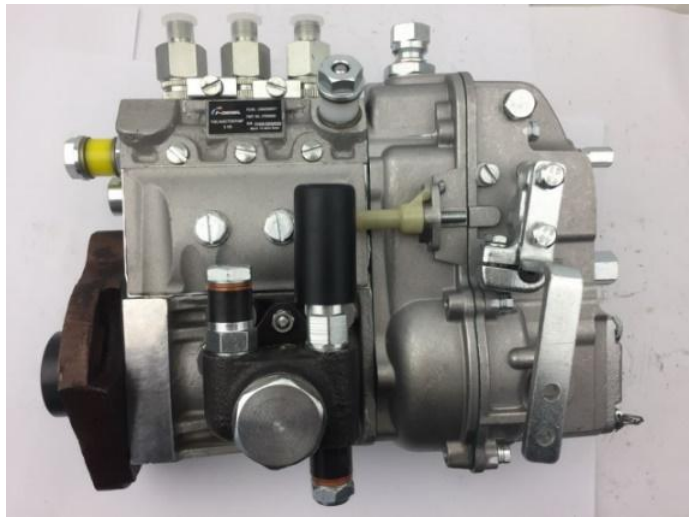


Nozzle ring

Fuel system

- **Mechanical pump series**



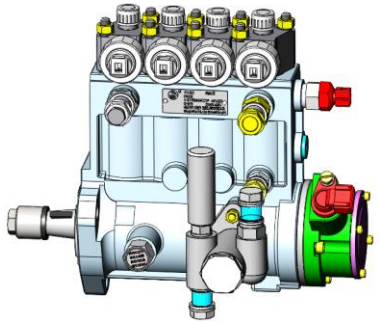




Fuel system

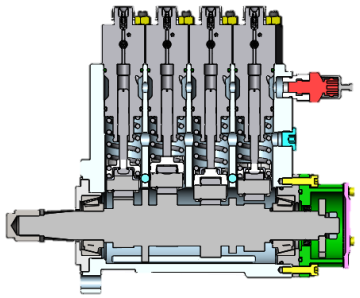
- **Unit pump series**













E-controlled unit pump

Integrated unit pump

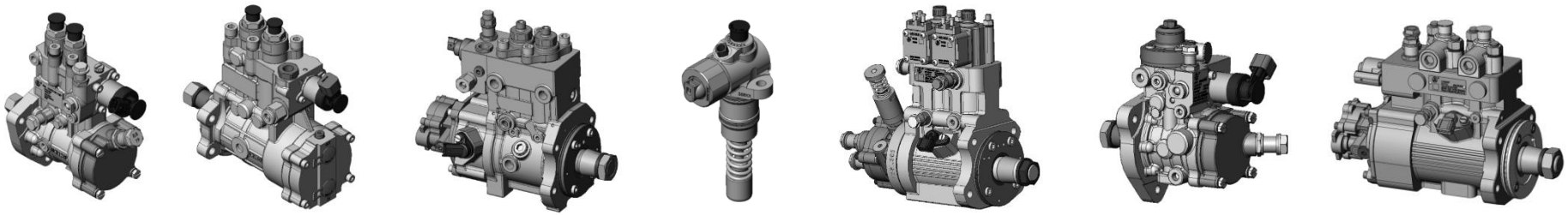
Fuel system

- **Common rail system**

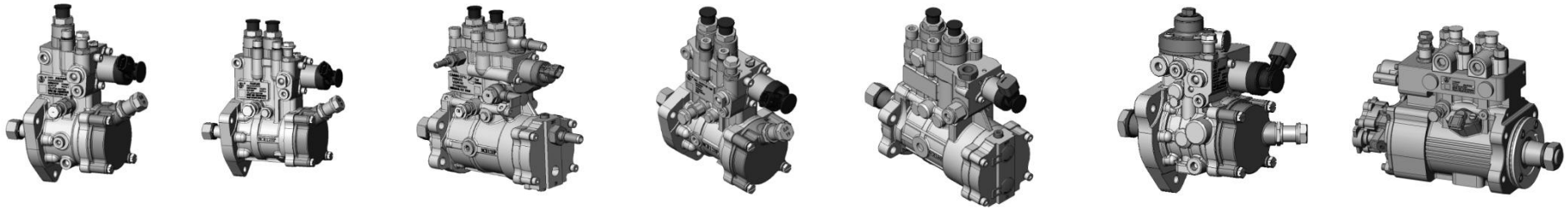


Fuel system

➢ **Common rail system series**



The road commercial vehicle series offers a spray pressure range from 1600 bar to 2200 bar, with power coverage up to 750 kW



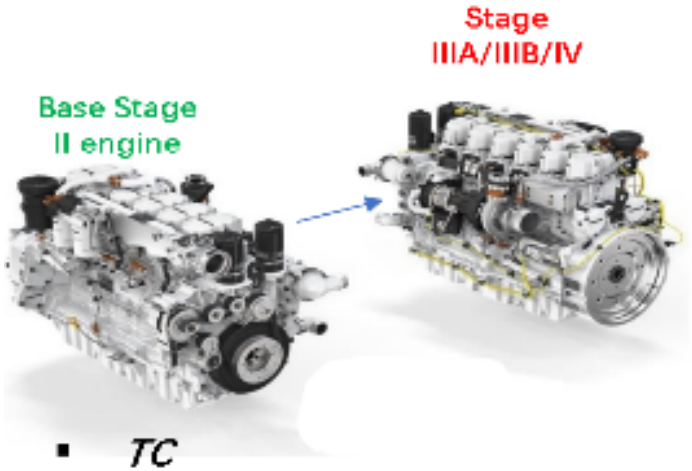
For the off-road series, the injection pressure ranges from 1600 bar to 2200 bar, with power coverage up to 850 kW

The pump body ranges from CP 2.2 to CP 5.1

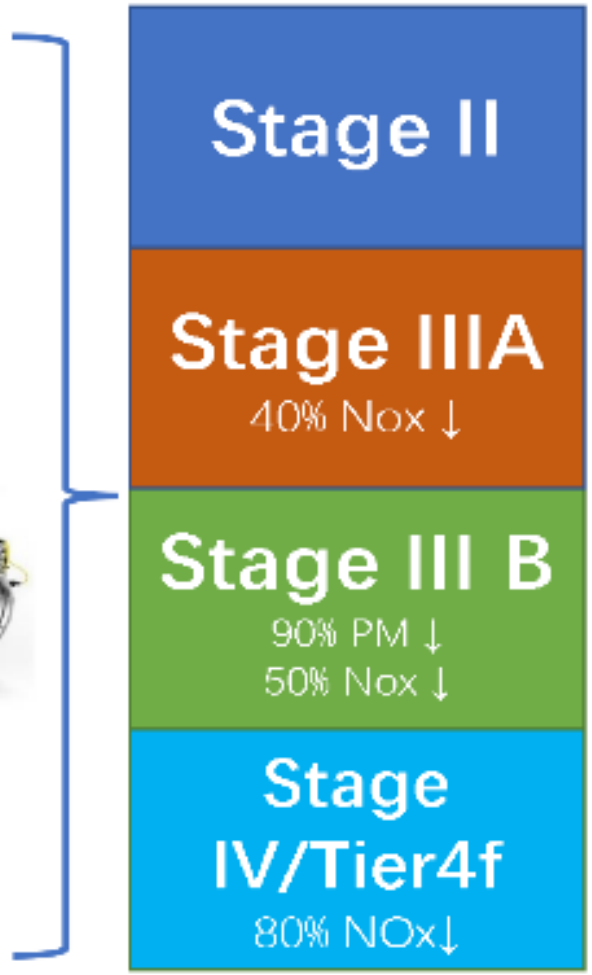
Fuel system

➢ Engine upgrades

- ***m- inline pump***
  Mechanical inline pump
- ***m- ve pump***
  Mechanical ve pump
- ***e- ve pump***
  Electronic ve pump



- ***TC***
  TurboCharger
- ***CR***
  Common Rail



Successful Upgrade Cases:

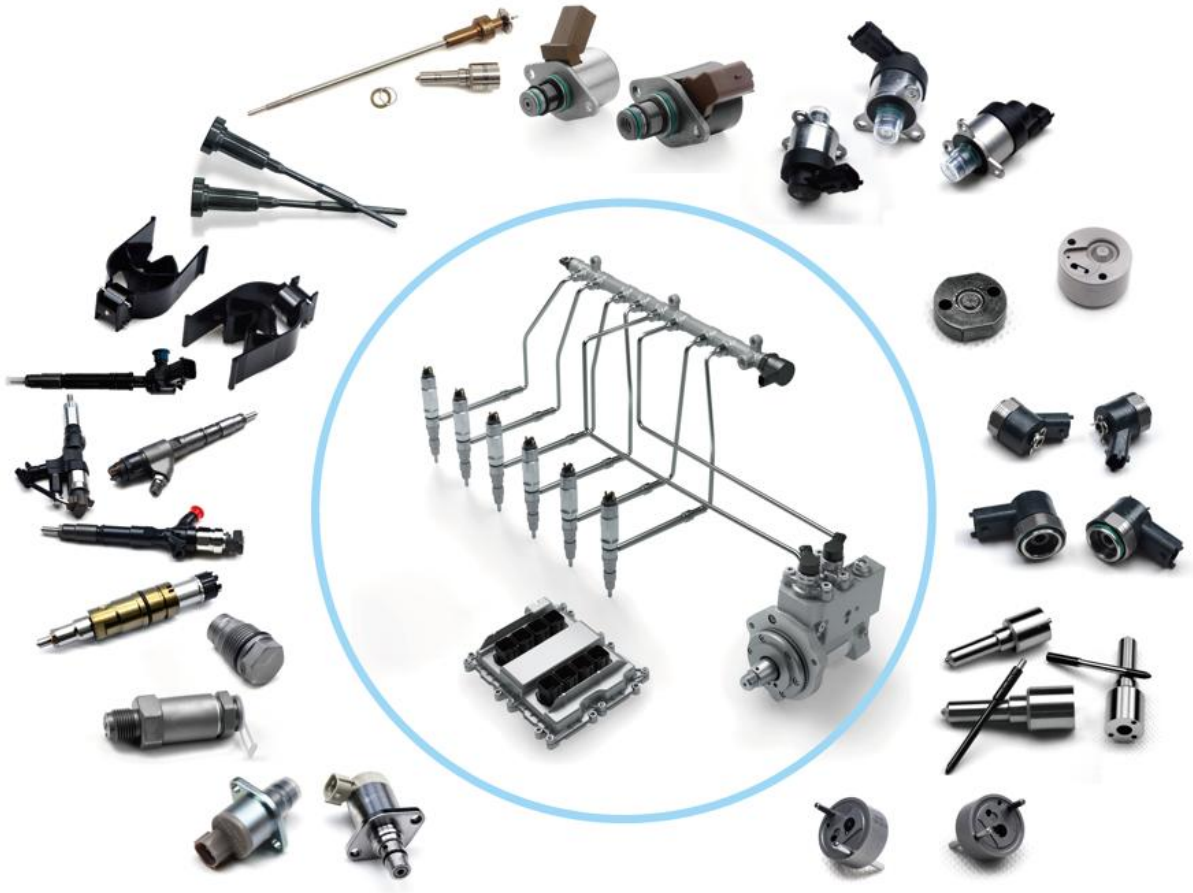
1. Road project: Euro 3 upgraded to Euro 5 (common rail + post-processing).
2. Off-road projects: Phase 2 upgraded to phase 3 (combined unit pump + aftertreatment).

Cases under upgrading:

1. Off-road Phase 3 upgraded to Stage 4 (common rail + post-processing).
2. Off-road performance improvement, reduced fuel consumption and exhaust temperature (optimized fuel system for the same class, completely redesigned combustion chamber, adjusted intake and exhaust pipeline layout).

Fuel system

- **Fuel system series components**



Common rail system components

-Bosch series

-Denso series

-Delphi series

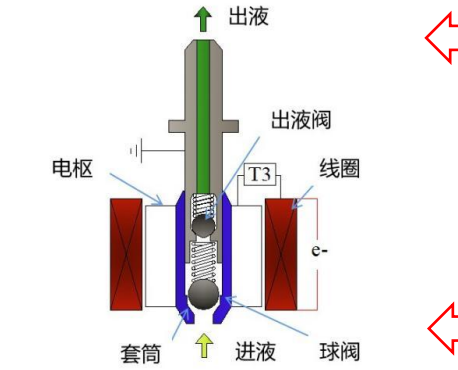
-Siemens series

Mechanical Series components

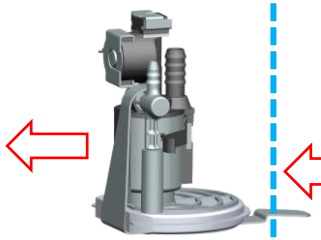
Heavy-duty Series components

Aftertreatment system

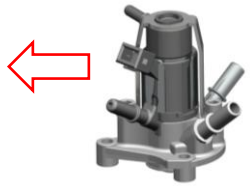
➢ Assembly



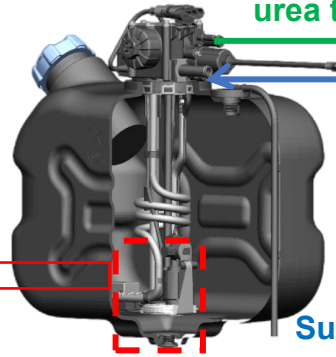
Electromagnetic pulse sleeve plunger metering unit



Supply pump



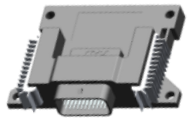
Metering nozzles



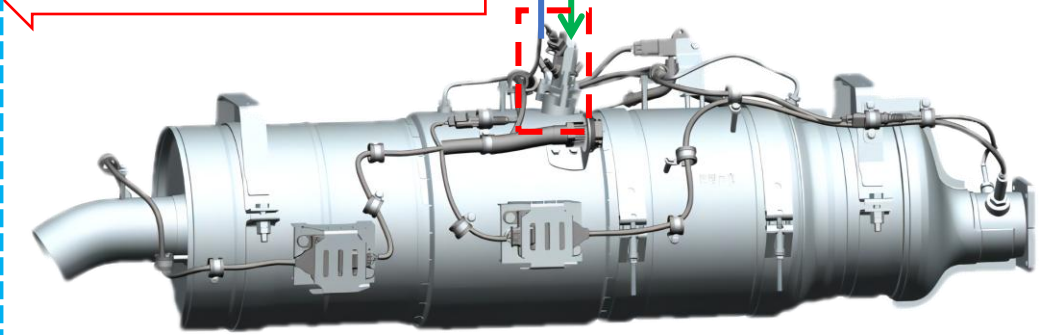
Urea supply module and urea tank assembly

Return fluid urea tube

Supply fluid Urea tubes



After-processing Controller (DCU)



Diesel engine aftertreatment catalytic converter assembly

A full range of complete solutions for gasoline, diesel, off-road, generator sets, and marine applications

EGR valves, urea pumps, urea nozzles, urea pumps, exhaust temperature sensors, Nox sensors, DCUs, back pressure valves, etc.

Aftertreatment system

➢ Accessories



Exhaust temperature sensor



DCU



Urea nozzle



Urea pumps and accessories



NOx sensors



Urea metering valve

Sealing system



Cylinder gasket



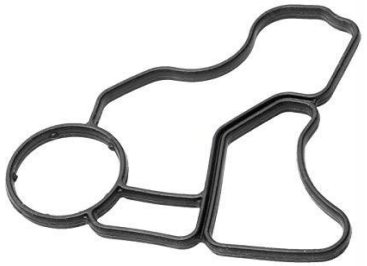
Valve chamber cover pad



Water pump gasket



Timing box gasket



Oil filter gasket

Sealing system



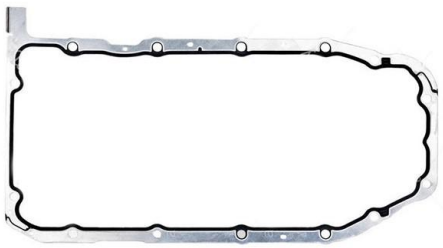
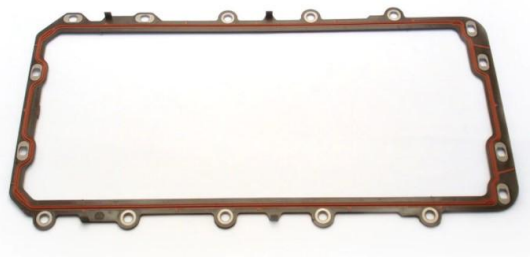


Exhaust gasket





Intake gaskets

Oil pan gasket

Electric drive and electronic systems

➢ **Truck (diesel) actuator**

Fuel and air control actuators

- Electronically controlled throttle
- Clutch/oil/fuel solenoid valves
- Brake pressure regulator
- ABS pump



Exhaust control unit

- Exhaust throttle valve
- Turbocharger electronic control actuator



EGR valve and EGR cooling unit



Electric drive and electronic systems

➢ Passenger car (gasoline) actuator

Combustion drive

- Spark plug
- Ignition coil
- Injectors





Thermal management actuators

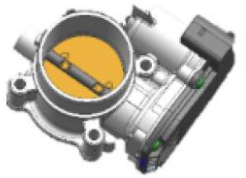
- Fan heater valve
- Coolant flow valve
- Electronic water pump





Air intake management

- Electronic throttle
- VVT solenoid valve




Fuel vapor management

- Carbon tank valves
- Carbon can ventilation solenoid valve
- Fuel tank isolation valve
- Pneumatic actuator valve
- Three-way solenoid valve
- Bidirectional solenoid valve



Electric drive and electronic systems

➢ Engine management system sensors

Fuel system sensors

- Common rail pressure sensor
- Fuel tank pressure sensor



Intake system sensors

- Air flow sensor
- Intake air temperature and pressure sensor
- Throttle position sensor



Pressure and vibration sensors

- Detonation sensor
- High-voltage sensors
- Oil pressure sensor
- Coolant temperature sensor



Temperature sensor

- Exhaust gas temperature sensor
- Oxygen sensor



Rotate the sensor

- Crankshaft position sensor
- Camshaft position sensor
- Turbocharger speed sensor



Electric drive and electronic systems

➢ Transmission system sensors

Vehicle sensing

- Speed sensor
- Distance adjustment sensor
- Body height sensor



Wheel and brake sensing

- Tire pressure monitoring sensor
- Brake booster pressure sensor
- Wheel speed sensor
- Brake vacuum pressure sensor



Steering and suspension sensing

- Steering sensors
- Suspension height sensor / pedal travel sensor



Brake sensor

- Transmission input/output position sensor
- Transmission oil temperature sensor
- Clutch position sensor
- DCT shift fork/gear/temperature sensor
- Transmission travel/angle sensor
- Clutch gear sensor



F-DIESEL team













Corporate Mission









Thanks!