Diesel Pumps and Injectors
Overview, features and benefits

Factory remanufactured to latest original equipment specifications
Only original equipment parts used in remanufacturing
The same functional and power tests as the original equipment product

About diesel injection
The function of a diesel fuel injection system is to inject precise amounts of diesel at the correct time to produce clean combustion. The design of these systems has evolved over time from systems using mechanical rotary pumps to today’s modern common rail systems.

The main replacement components in the range are diesel pumps and injectors, both of which are primarily Bosch eXchange parts.

Trend
Precise control of fuel is important to maximise performance and economy
Injector tolerances continue to get tighter and less forgiving to enable this control
Current diesel injectors have tolerances as small as 1 micron compared to 100 microns not that long ago

Bosch is the world’s leading diesel system manufacturer.
Diesel injection from Bosch: The complete range from leading supplier
Innovative high-pressure injection technology from Bosch. Bosch can offer just the right products and spare parts to enable you to provide rapid, expert and economical servicing for these vehicles.

**Bosch BX: More than just a repair**

- Original equipment quality thanks to high precision series remanufacturing.
- Genuine Bosch: All components replaced are 100% Bosch quality.
- Outstanding reliability and a long service life thanks to Bosch diesel expertise.
- As good as new: Same warranty as for new products.
- Top quality standards: Same quality tests as for new products.

**Bosch Fuel Injection: Where Quality Lives**

- **Tolerance**
  0.002 mm for moveable parts. In comparison, a human hair is 30 times thicker.

- **Fuel is injected into the combustion chamber at a pressure of 2,200 bar**
  Equal to concentrating the weight of a luxury sedan on a finger nail.

- **Injection Quantity**
  Ranges from 1 – 350 mm$^3$. This quantity is injected at a rate of 2,000 KPH through an orifice measuring 0.25 mm$^2$.

- **Much faster than the blink of an eye**
  Injection takes place in 1 – 2 milliseconds. The blink of an eye (0.4 seconds) takes longer than 200 injections.

**Benefits:**

- Over 800 part numbers covering 95% of Bosch common rail Systems
- 100% change of all wearing components
- Only original equipment parts used in the remanufacturing process
- The same functional and power tests as the original equipment product using original equipment test equipment
- Garages can fit and forget

**Diesel Pumps & Injectors Summary:**

- Factory remanufactured to latest original equipment specifications
- Only original equipment parts used in remanufacturing
- The same functional and power tests as the original equipment product using original equipment test equipment