

Diesel Pumps and Injectors

Overview, features and benefits

www.boschautoparts.co.uk

www.boschautoparts.ie



BOSCH

Invented for life



- ▶ 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 Pumps and Injectors

More about injectors

www.boschautoparts.co.uk

www.boschautoparts.ie

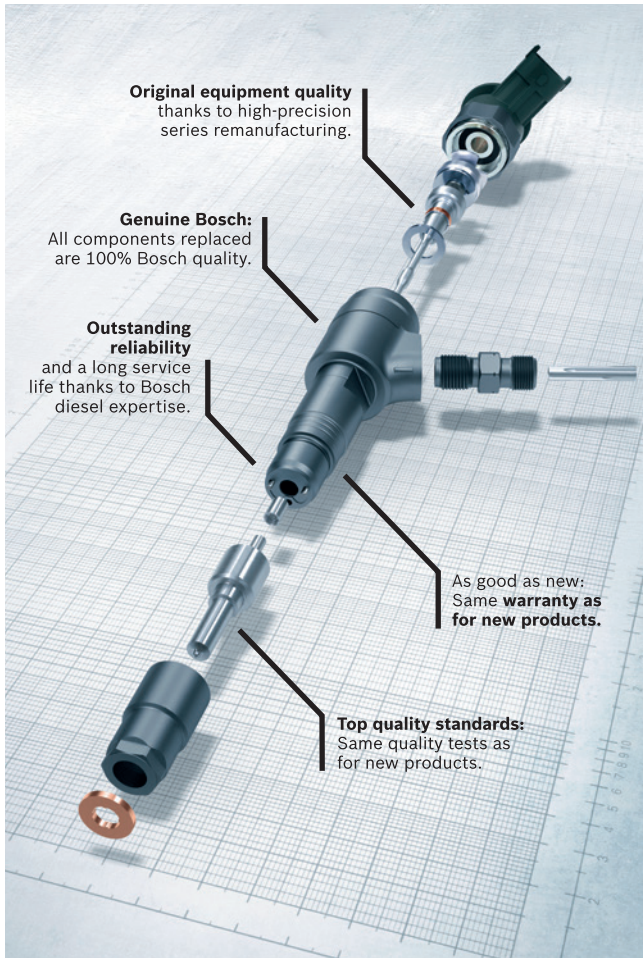


BOSCH
Invented for life

Diesel injection from Bosch: The complete range from leading supplier

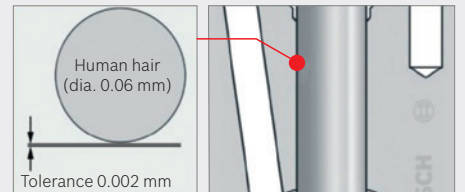
Innovative high-pressure injection technology from Bosch. Bosch can offer just the right products and spare parts to enable you to provide rapid, expert and economical servicing for these vehicles.

Bosch BX: More than just a repair

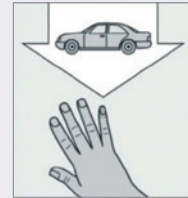


Bosch Fuel Injection: Where Quality Lives

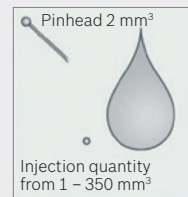
Tolerance
0.002 mm for **moveable parts**. In comparison, a human hair is 30 times thicker.



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 mm³. This quantity is injected at a rate of 2,000 KPH through an orifice measuring 0.25 mm².



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