High Pressure Key to Success: Diesel injection from Bosch
Diesel injection from Bosch:
The complete range from the leading supplier

Economical, clean and sporty: Innovative high-pressure injection technology from Bosch makes today’s diesel vehicles more attractive than ever before. This therefore promises to be a lucrative market for the future both for workshops and the aftermarket sector. Bosch can offer just the right products and spare parts to enable you to provide rapid, expert and economical servicing for these vehicles. Make the most of this vast market potential for guaranteed success – you can rely on the world’s leading diesel system supplier for all the necessary professional support.

Sheathed element glow plugs
Bosch sheathed element glow plugs and pre-heating systems are tailor-made to suit every diesel system.
- State-of-the-art original equipment technology
- Competitively priced range of products
- Low-voltage glow plug in compliance with EU 5 and EU 6-particle limit values

VP44 radial-piston injection pump
Powerful, non-polluting pump for injection pressures of up to 1950 bar.
- Proven high-performance technology
- Also available as part of the Bosch eXchange program
- Bosch is the series supplier for: Audi, BMW, Cummins, Ford, MAN, Nissan, Opel, Volvo

Axial piston distributor injection pumps
Compact and lightweight – ideal for small, high-speed diesel engines.
- A combination of supply and high-pressure pump, governor and timing device in one compact assembly
- A wide eXchange program

Hot-film air mass meter HFM5
Accurate air flow measurement for ecological and economical diesel technology.
- Optimum engine characteristics in part and full throttle
- Good driving comfort in every speed range
- Low emission values
Diesel injection from Bosch:

The complete range from the leading supplier

- Common Rail high-pressure pumps
  - Injection pressures over 2000 bar.
  - Increased output and cleaner combustion
  - Compact design

- Unit injectors
  - The unit injector combines a high-pressure pump and nozzle with a solenoid valve to form a compact unit.
  - Full eXchange program
  - Higher performance and lower consumption
  - Bosch is the series supplier for: VW, Audi, Skoda, Seat

- Common Rail systems
  - Innovative technology for high-performance diesel engines.
  - Genuine original equipment components
  - Modular design for ease of servicing
  - Also available as part of the eXchange program
  - Bosch is the series supplier for: Audi, BMW, Citroën, Deutz, Fiat, Ford, Honda, Hyundai, Iveco, Kia, MAN, Mazda, Mercedes-Benz, Opel, Peugeot, Renault, Toyota, Volkswagen, Volvo

- Denoxtronic emission reduction
  - Reduction agent metering system
  - Up to 95% reduction in NOx emissions
  - Up to 5% reduction in consumption and CO2 emissions
  - In combination with the SCR system, meets the EU 4, EU 5 and EU 6 emission limit values without the need for a particulate filter
  - Available for cars and commercial vehicles
New systems:
Bosch stands for progress in diesel technology

A great deal of the credit for the diesel boom has to go to innovative diesel injection systems from Bosch – not least to the common rail and unit injector systems. More than 60 million common rail systems are currently on the market, offering vast potential for every workshop. What’s more: Bosch can supply component packages for the common rail systems of almost all vehicle manufacturers.

Denoxtronic – reducing emissions
- Up to 95% reduction in NOx emissions in combination with SCR catalytic converters
- Up to 5% reduction in consumption as compared to other concepts
- Together with the SCR system, the EU 4, EU 5 and EU 6 NOx limit values can be met

Common rail high-pressure pumps
- Broad range for every generation of common rail system
- Range also includes commercial vehicle applications
- eXchange program for cars and commercial vehicles

Common rail injectors
- Designed to inject into the cylinder
- Solenoid-controlled injectors for the latest vehicles
- Piezo injectors for the third common rail system generation also available as part of the eXchange program

Sensors
The full sensor spectrum for diesel vehicles:
- Absolute pressure sensors
- Differential pressure sensors
- Temperature sensors
- Hot-film air mass meters
- Camshaft/crankshaft speed sensors
- Rail pressure sensors
- Accelerator pedal sensors
- NOx sensors etc.

Unit injector
The injection system used by the Volkswagen Group.
- A unit consisting of pump and injector
- Complete eXchange program, 100% market coverage
- eXchange program and field component repair (FCR)
In a class of their own: The classic Bosch diesel components

No other name is more closely associated with the development and high performance of diesel systems than Bosch. Every single component reflects the full extent of the company’s diesel expertise.

This applies just as much to innovative systems as to the “classic” products. Bosch is the perfect partner when it comes to fast, expertful and efficient maintenance of diesel vehicles.

Inline and distributor injection pumps

- Full range of inline and distributor injection pumps
- Comprehensive eXchange program for the distributor injection pumps of the major vehicle manufacturers

Pump elements and pressure valves

- For nearly 100% of pumps
- Bosch is Europe’s only supplier of original equipment inline pumps – and thus also of pump elements and pressure valves

Nozzle-holder assemblies

- For more than 90% of all diesel passenger cars and commercial vehicles
- Original equipment quality throughout
- eXchange program and field component repair (FCR)

Nozzles

- For more than 90% of all diesel vehicles
- Wide range of products for Asian vehicles
- Range incorporates nozzles for non-Bosch systems
- Original equipment quality throughout
- Fake-proof packaging

Sheathed element glow plugs

- For more than 95% of all diesel vehicles
- Comprehensive range of standard, Duraterm, and low-voltage glow plugs
- DuraSpeed, the latest generation of ceramic sheathed element glow plugs, particularly rugged thanks to its patented, flexible design
- Original equipment quality throughout
- Forgery-resistant KeySecure label on the packaging
- Prepared for the future with start/stop systems
**Simple, quick and reliable:**
“Present value” repair with Bosch eXchange

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**Cost savings are a convincing argument**
Bosch eXchange offers replacements for the full range of the most important original equipment components. “Present value”, low-cost service work is sure to guarantee customer satisfaction and you are certain to be impressed by the straightforward, efficient way of working.

**Helps to preserve both resources and the environment**
By repairing old parts instead of producing new ones, savings of up to 90% are possible in terms of raw materials in addition to cutting down on energy consumption.

**Rational and economical**
Workshops are guaranteed to benefit from Bosch exchange components.
- Full range for diesel injection systems: more than 1000 item numbers
- Broad market coverage including modern high-pressure injection systems
- Full replacement of all wearing parts
- Same warranty as for new parts
- Standard, fair return acceptance criteria
- Direct deposit value refund
- Fast and efficient processing
- Return in original packaging (back in box)

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Simple, quick and reliable: “Present value” repair with Bosch eXchange

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Bosch eXchange parts combine top quality with full warranty – just like new components.
In the light of the ever increasing number of older diesel vehicles there is now a low-cost alternative to new parts or Bosch eXchange: Specialist repair at Bosch Diesel Centers. Thanks to the necessary expertise, the availability of the corresponding test benches and the use of special tools, it is often possible to repair diesel injection system components.

**Turn to the diesel specialists for in-depth knowledge and service**

Bosch Diesel Centers can provide more than just the rapid expert repair of Bosch diesel systems. They are also ideally equipped to assist all workshops in their efforts to make diesel service even more efficient.

**New range, even more customers**

Bosch has developed special repair concepts for many more high-pressure diesel injection system components. These are now available for:

- All standard high-pressure injection pumps
- Common rail injectors including the commercial vehicle sector
- Unit injectors and unit pumps
- Conventional diesel injection systems

This all adds up to a comprehensive spare parts range designed to enable you to provide a “present value” repair service for a wide circle of customers.
The world of Bosch:
- Diagnostics
- Diesel systems
- Gasoline systems
- Braking systems
- Spark plugs
- Energy systems
- Batteries
- Filters
- Wiper systems
- Lighting technology
- Comfort electronics
- Technical hotline
- Knowledge database
- Service training
- Workshop concepts

Bosch: Bringing you the workshop of the future

For over 125 years, Bosch innovations have been keeping vehicles on the road and getting people to and from their destinations while improving safety and peace of mind along the way.

Bosch Automotive Aftermarket offers workshops and retailers a comprehensive portfolio of products that is unmatched worldwide:
- Efficient diagnostics
- Innovative workshop equipment
- Quick, reliable delivery
- The world’s most comprehensive range of spare parts – including both new and remanufactured
- Workshop concepts to meet every requirement
- Comprehensive training
- Targeted sales and marketing support
- A competent service hotline
- 24-hour online workshop services
- Affordable leasing services for workshop equipment and software

From parts to scheduling, organization and results, our solutions are combined with additional services to ensure your needs will be perfectly met, helping you to maximize your potential.

Your address for genuine Bosch quality:

For more information:
www.bosch.com