

Delphi Smart Injector

The Delphi Smart Injector for medium and heavy duty diesel engines is a high pressure, electronically controlled diesel fuel injector that is designed to be combined with Delphi's Electronic Unit Pump (EUP) to provide a complete high pressure fuel delivery system for "cam in block" engines or engines with separate cam boxes. The injector's nozzle control valve is electronically controlled to help reduce fuel consumption and improve performance. The Delphi Smart Injector is designed to help manufacturers meet the most stringent emissions regulations.

► Benefits

- High pressure injection capability of up to 2,500 bar for optimum combustion and reduced aftertreatment
- Compact, lightweight body enables packaging flexibility
- Available with a wide range of high pressure nozzle options
- Multiple injection capability with programmable shot-to-shot injection control
- Programmable variable nozzle opening and closing pressure
- High speed actuation for accurate control of injection events
- Proven reliability and durability
- Target emissions:
 - Euro III, IV, V, and VI
 - US 07, US 10 and beyond
 - Tier III/IV
 - Japan NLTR and post-Japan NLTR

► Typical Applications

The Delphi Smart Injector is suitable for nine to 16 liter electronic unit pump (EUP) heavy duty and premium medium duty diesel engines that are used for on- and off-highway applications.

► Specifications

Engine cylinder capacity	0.7 L to 2.6 L
Peak pressure	2,000 bar 2,500 bar (optional)
Weight	0.75 kg
Drive voltage	50 V



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▶ Performance Advantages

The Delphi Smart Injector is part of a high performance fuel injection system which, in conjunction with a Delphi Diesel Electronic Unit Pump, provides a flexible and easy to package solution.

The combination of the Delphi Diesel Electronic Unit Pump and Delphi Smart Injector features the same performance advantages as the Delphi Electronic Unit Injector product line, including ultra high pressure injection and proven reliability.

▶ The Delphi Advantage

Delphi is a world leader in innovation, design and the manufacture of heavy duty diesel fuel systems. Delphi offers the benefits of many years' experience in the heavy duty market and a long history of working closely with engine manufacturers. Delphi heavy duty diesel fuel systems can be found on millions of engines around the world.

As a global leader in engine management systems, Delphi can help manufacturers meet emissions requirements, improve fuel economy and enhance performance. Delphi is a source for high value solutions and our systems expertise is built into every product. Delphi's flexible engineering approach encourages collaboration. And, Delphi has a thorough understanding of markets around the world and a global network of resources.