

Delphi High Pressure Heavy Duty Diesel Common Rail System

The Delphi High Pressure Heavy Duty Diesel Common Rail System (HPCRS) is designed for medium and heavy duty diesel engine programs with ultra high pressure requirements. Delphi offers a complete common rail system including electronic injectors, common rail, sensors, pipes, ultra high pressure fuel pump, electronic controller and a fuel filter.

Delphi has earned a reputation for durable, high technology electronic unit injector and electronic unit pump systems. With the HPCRS it has now developed a range of common rail systems with class-leading pressure capability and durability.

► Benefits

- Highly efficient, compact pump with integrated transfer pump
- Engine oil-lubricated pump provides long term durability at high pressure operation
- Fast response injector with small quantity injection control for precise combustion control
- Fully flexible injection capability
- Close coupled multiple injection capability
- Bespoke injector body, including slim line valve stock for packaging flexibility
- Wide range of nozzle options available
- Ultra high pressure (up to 3,000 bar) capability provides the potential to minimize the need for aftertreatment
- On board diagnostics and dynamic trimming capability
- Target emissions: Euro VI, post-US 10, post-Japan NLTR, Tier IV

► Typical Applications

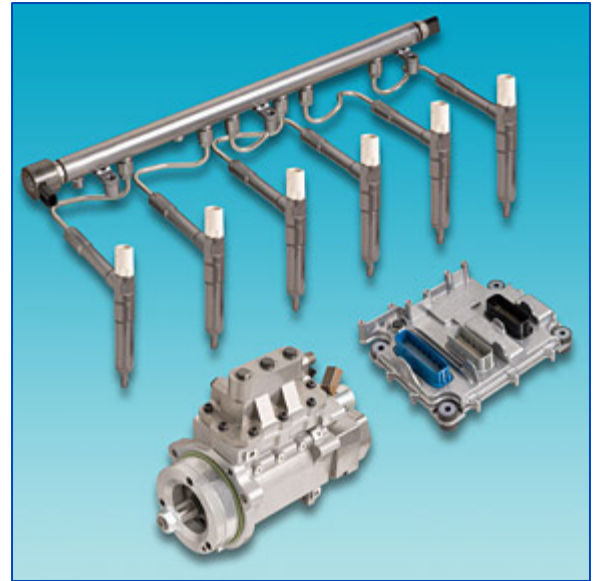
The Delphi High Pressure Heavy Duty Diesel Common Rail System is designed for four to 16 liter diesel engine programs. It is suitable for on- and off-highway applications.

► Specifications

Peak pressure range	2,400 bar to 3,000 bar
Engine cylinder capacity	1.0 L to 2.6 L
Injector diameter	21 mm minimum
Pump	Two or three plunger variants
Drive voltage	50 V

► Performance Advantages

The Delphi High Pressure Heavy Duty Diesel Common Rail System is among the most advanced fuel systems in the world. It allows engine manufacturers to combine the benefits of ultra high pressure and fully flexible injection for optimized combustion across the engine speed range. This reduces the need for expensive aftertreatment systems and maximizes engine efficiency. With oil lubrication, Delphi has redefined common rail capability in terms of reliability and durability at high pressures.



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► **The Delphi Advantage**

Delphi is a world leader in innovation, design and the manufacture of heavy duty diesel fuel systems. Delphi has many years experience in the heavy duty market and a long history of working closely with 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.