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Diesel Development

— Contributing to cleaner emissions and improved fuel efficiency —

Diesel-powered vehicles offer excellent fuel economy and power, and emit approximately 20 percent less carbon dioxide (CO₂) emissions compared to gasoline-powered vehicles. DENSO continues to develop diesel engine management systems and components for injection control and after-treatment, helping contribute to the development of clean diesel vehicles.

The higher fuel injection pressure of common rail systems allows for a finer fuel atomization spray, which helps reduce the particulate matter (PM) in emissions. Also, the precisely controlled, multiple injections during a combustion cycle help reduce harmful emissions, such as nitrogen oxide (NO_x).

In 1995, DENSO launched the world's first innovative diesel common rail system and in 2002 introduced the 180 MPa (1800 bar) system with five multiple injections, achieving the highest injection pressure in the world at that time. In 2009, DENSO launched a 200 MPa (2000 bar) system with nine multiple injections.

DENSO common rail systems are produced in Japan, Hungary, Thailand, and China and are installed on diesel vehicles in countries and regions worldwide.

For diesel after-treatment, DENSO has been producing and supplying high performance and cost-effective diesel particulate filters (DPFs) made of cordierite since 2003. Compared to other DPFs, DENSO's cordierite DPFs are light-weight and have low pressure loss and high filtration efficiency, leading to better engine performance.

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