Chinese OEM Changan Auto Taps PHINIA’s High-Tech Fuel System for Global Hybrid Debut

* The high performance 500bar fuel system is designed to significantly reduce exhaust particulate emissions, while fuel economy improvements can also be measured.
* The complete system delivers excellent value to customers by adjusting the engine design without significant cost increases and reducing reliance on the expensive exhaust after-treatment system.
* Sold under PHINIA’s globally recognized Delphi brand.

PHINIA Inc., a leader in premium fuel systems, electrical systems and aftermarket parts, announced that, in a global first, it will provide its high-performance 500bar Gasoline Direct injection (GDi) fuel system to Changan Auto, a renowned Chinese automotive manufacturer.

The advanced system, developed by PHINIA, and sold in the market under the globally recognized Delphi brand, can significantly reduce particulate emissions and lower fuel consumption without requiring an expensive redesign of the engine. The first-of-its-kind 500bar fuel system will make its global debut as part of a Changan Auto hybrid vehicle launch set to take place in Q2.

Yang Hongyong, General Manager of PHINIA Fuel Systems China, said that: "This is our first global mass-produced 500bar project. We are delighted to cooperate with Changan Auto, a leading player in the Chinese automobile market. Our high-pressure 500bar GDi fuel system provides customers with a cost-effective solution, which improves vehicle fuel economy and is designed with emissions reduction in mind. Together, we will champion the development of hybrid vehicles in China.”

This innovative 500bar GDi fuel system boasts several key advancements designed to optimize engine performance and minimize emissions. An enhanced pressure vessel and improved fuel rail interface ensure consistent high-pressure fuel delivery. Moreover, a significant increase in electromagnetic force empowers injectors for more precise fuel metering and more stringent closed-loop control.

These combined improvements translate to real-world benefits. The improved fuel system delivers better engine efficiency, particularly during the crucial warm up phase before the catalytic converter activates. Owing to a simplified after-treatment system, this can lead to reduced reliance on current bulky and expensive after-treatment systems, delivering financial and environmental upside for Changan. Additionally, the system’s adaptability to various fuel types and different engine platforms ensures broad applicability without any major engine design modifications.

It is expected that Changan Auto's hybrid vehicles equipped with the 500bar GDi fuel system will be launched to the market in Q2 2024.

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**About PHINIA**

PHINIA is an independent, market-leading, premium solutions and components provider, with over 100 years of manufacturing expertise and industry relationships and a strong brand portfolio that includes DELPHI®, DELCO REMY® and HARTRIDGE®. With 13,200 employees across 44 locations in 28 countries, PHINIA is headquartered in Auburn Hills, Michigan, USA.

Across commercial vehicles and industrial applications (heavy-duty and medium-duty trucks, off-highway construction, marine, aviation, and agricultural), and light vehicles (passenger cars, trucks, vans and sport-utility), we develop fuel systems, electrical systems and aftermarket solutions designed to keep combustion engines operating at peak performance, while at the same time investing in advanced technologies to unlock the potential of alternative fuels.

By providing what the market needs today to become more efficient and sustainable, while also developing innovative products and solutions for a cleaner tomorrow, we are the partner of choice for a diverse array of commercial vehicle, industrial, light vehicle and aftermarket customers – powering our shared journey toward a cleaner tomorrow.

(DELCO REMY is a registered trademark of General Motors LLC, licensed to PHINIA Technologies Inc.)