



First Hybridization for Diesel Engines Worldwide **Bosch Axle Split Hybrid Drive Honoured with Automechanika Innovation Award**

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- ▶ Diesel-hybrid drive saves up to 35% of fuel
- ▶ Joint development by Bosch and PSA Peugeot Citroën
- ▶ Bosch provides the core components for the electric drive

Together with PSA Bosch developed the Axle Split hybrid system, the world's first diesel-hybrid drive. The combination of a combustion engine and an electric rear axle drive reduces the fuel consumption by up to 35% in comparison to the pure diesel engine. Incorporated into the Peugeot 3008 HYbrid4, series production of the new drive started towards the end of 2011. The Bosch Axle Split hybrid drive was now honoured with the Innovation Award 2012 of Fair Automechanika Frankfurt in the category "OE Products & Services". The award stands for products and solutions that among other things stand out for their great degree of innovation and which contribute to economic efficiency and environmental protection.

The main hybrid components for the Axle Split drive were developed by Bosch engineers in close cooperation with the PSA group. The compact hybrid components – two electric motors, a double inverter and the battery – do not require much installation space and can be integrated into existing drive systems without great efforts. The compact electric rear axle, the double inverter and the battery are perfectly integrated into the rear part of the vehicle. Meanwhile, PSA also produces the model Peugeot 508 as a station wagon RXH and limousine HYbrid 4 and Citroen DS5 as HYbrid 4 with Axle Split drive.

Emission-free driving in urban traffic, four-wheel drive for critical situations

Apart from considerably optimized consumption and increased efficiency the combustion engine at the front and the electric motor at the rear axle

bring about a four wheel drive with consumption benefit. In urban stop-and-go traffic or at low speeds the electric motor can also work as only drive and move the vehicle without any emissions. When accelerating more the electric drive at the rear axle works as a booster and thus increases the fun to drive.

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