

Press Release

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Volvo V40 D4 with new Drive-E powertrains: the most powerful, lowest emission engine in its segment

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Volvo Car Group's new Drive-E powertrains – offering a world-class blend of drivability and low CO₂ emissions – are now also available for the Volvo V40 and V40 Cross Country. The CO₂ emissions of the 190 hp Volvo V40 D4 with manual gearbox are down to an outstanding 85 g/km – an offer no competitor is even close to matching.

“The Volvo V40 D4 offers a massive 80 hp more driving pleasure than other cars in the segment with CO₂ emissions at that level. This is yet more proof that the Drive-E powertrains take efficient driving pleasure to a new dimension,” says Michael Fleiss, Vice President Powertrain at Volvo Car Group.

Initially, the V40 can be equipped with two engines from the four-cylinder Drive-E engine family: the 245 hp petrol turbo T5 and the turbo diesel D4 with 190 hp. An 8-speed automatic gearbox contributes to the refined drive.



Outstanding mix

“Their outstanding take-off and responsiveness, combined with a smooth engine sound, will make the nimble V40 cars even more fun to drive, without compromising on modern customers’

demand for superb fuel economy and minimised CO₂-emissions,” adds Michael Fleiss.

To deliver the desired responsive, smooth and fuel-efficient drivability, the Drive-E engines are teamed either with Volvo Cars’ new eight-speed automatic gearbox or an enhanced six-speed manual tuned for improved fuel economy. Versions with the automatic gearbox have paddles on the steering wheel for manual gear shifting.

Diesel with ground-breaking i-Art technology

The D4 turbo diesel comes with 190 hp and 400 Nm of torque. The engine features world-first i-ART technology with pressure feedback from each fuel injector instead of using a traditional single pressure sensor in the common rail.

Each injector has an intelligent chip on top of it that monitors injection pressure. Using this information, the self-adapting i-ART system makes sure that the ideal amount of fuel is injected during each combustion cycle.

“The combination of injection pressure at 2,500 bar and i-ART technology gives the customer an engine with high performance, improved fuel economy and considerably lower emissions,” says Michael Fleiss.

The diesel also features refinements such as a state-of-the-art twin-turbo, reduced friction and a smart valve solution on the cooling system for a more rapid heat-up phase after a cold start.



V40 D4 with fuel consumption at 3.3 l/100 km

Fuel consumption in a Volvo V40 D4 with a manual gearbox is down to 3.3 l/100 km (EU Combined), which corresponds to CO₂ emissions at 85 g/km. The figure for the V40 Cross Country is 4.0 l/100 km (104 g/km) with the manual gearbox.

The four-cylinder petrol turbo T5 has 245 hp and 350 Nm of torque. Fuel consumption in a Volvo V40 with the 8-speed automatic is 5.8 l/100 km (136 g/km). All figures are preliminary.

Introduced in 2013

The first two-litre, four-cylinder Drive-E engines (called Volvo Engine Architecture [VEA] during the development phase) were launched in autumn 2013. From May 2014, all new Volvo models, except the XC90, will be available with engines from the new powertrain family.

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