More power for even greater performance

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Porsche has equipped the new Cayenne (**Cayenne (WLTP)*:** Fuel consumption combined: 11.7 – 10.6 l/100 km; CO_2 emissions combined: 266 – 242 g/km; CO_2 class: G) with extensively optimised engines. The Cayenne, Cayenne S and Cayenne E-Hybrid are significantly more powerful than their predecessors. The V6 engine in the Cayenne, for example, now generates 260 kW (353 PS) and 500 Nm of torque with the same 3.0-litre displacement. This is equivalent to an increase of 10 kW (13 PS) and 50 Nm. In conjunction with the optional Sport Chrono package, this shortens the sprint from zero to 100 km/h to a spritely 5.7 seconds. The Cayenne now reaches a top speed of 248 km/h. Its 3.0-litre V6 turbo also provides the combustion-engine base for the Cayenne E-Hybrid (**Cayenne E-Hybrid (WLTP)*:** Fuel consumption weighted combined: 4.4 – 3.9 l/100 km; Fuel consumption with depleted battery combined: 10,5 – 9,8 l/100 km; Electrical consumption weighted combined: 19.7 – 19.1 kWh/100 km; CO_2 emissions weighted combined: 101 – 90 g/km; CO_2 class weighted combined: C – B; CO_2 class with depleted battery: G).

All variants of the new Cayenne are equipped with a revamped eight-speed Tiptronic S. With shorter reaction and shift times in Sport and Sport Plus modes, the automatic gearbox offers a noticeably improved performance. In Normal mode, the gearbox optimises the efficiency of the drive system. The Tiptronic S quickly shifts to the next higher gear to save fuel. Software optimisation also improves the interaction between the gearbox and the engine.

Cayenne S with 4.0-litre V8 biturbo engine

The new Cayenne S (**Cayenne S (WLTP)*:** Fuel consumption combined: 12.6 – 12.0 l/100 km; CO_2 emissions combined: 287 – 272 g/km; CO_2 class: G) now comes with a bigger displacement: Porsche has replaced the previous 2.9-litre V6 with a new 4.0-litre V8 biturbo engine – achieving a significant power boost in the process: 349 kW (474 PS) and 600 Nm of torque amount to an increase of 25 kW (34 PS) and 50 Nm. The Cayenne S now accelerates to 100 km/h in 4.7 seconds and boasts a top speed of 273 km/h – accompanied by powerful and evocative sound characteristics typical of this engine layout.

For use in the new Cayenne S, the eight-cylinder has undergone an extensive overhaul: engineers focused on reducing consumption and emissions. Among other measures, this was achieved through the switch from a twin-scroll to a single-scroll turbocharger. The resulting higher exhaust-gas temperatures reduce fuel consumption in the highly dynamic range. In addition, a higher fuel injection pressure of 350 bar improves engine efficiency. New electrically controlled wastegates noticeably optimise the engine's responsiveness. Porsche is also introducing a new two-stage variable valve lift in the Cayenne S for the first time. The intake camshafts now have two cam profiles per valve. Actuators switch between these profiles at lightning speed. At low engine loads, the engine operates with short valve opening times and minimal valve lift. At high loads, on the other hand, the system activates profiles with a large lift and long opening times in order to achieve a greater cylinder charge. In combination with the fully variable camshaft control (Vario Cam Plus), both states can be combined with short or long valve overlaps. New magnetoresistive camshaft sensors tap the full potential of this technology by determining the high-resolution position of the camshafts in real time. The engine control system precisely selects the appropriate valve timing for each load condition. This results in a noticeably improved performance while at the same time optimising CO2 values.

To ensure this performance on a reliable and continuous basis, Porsche also equips the first piston ring with a steel ring carrier. In combination with optimised piston cooling, this lends the eight-cylinder added robustness.

MEDIA ENQUIRIES

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Consumption data

Cayenne Coupé (WLTP)*: Fuel consumption combined: 11.7 – 10.7 l/100 km; CO_2 emissions combined: 265 – 242 g/km; CO_2 class: G

Cayenne E-Hybrid (WLTP)*: Fuel consumption weighted combined: 4.4 – 3.9 l/100 km; Fuel consumption with depleted battery combined: 10,5 – 9,8 l/100 km; Electrical consumption weighted combined: 19.7 – 19.1 kWh/100 km; CO_2 emissions weighted combined: 101 – 90 g/km; CO_2 class weighted combined: C – B; CO_2 class with depleted battery: G

Cayenne E-Hybrid Coupé (WLTP)*: Fuel consumption weighted combined: 4.4 – 3.9 l/100 km; Fuel consumption with depleted battery combined: 10,5 – 9,8 l/100 km; Electrical consumption weighted combined: 19.7 – 19.0 kWh/100 km; CO_2 emissions weighted combined: 101 – 89 g/km; CO_2 class weighted combined: C – B; CO_2 class with depleted battery: G

Cayenne (WLTP)*: Fuel consumption combined: 11.7 – 10.6 l/100 km; CO_2 emissions combined: 266 – 242 g/km; CO_2 class: G

Cayenne S Coupé (WLTP)*: Fuel consumption combined: 12.6 – 12.0 l/100 km; CO_2 emissions combined: 288 – 273 g/km; CO_2 class: G

Cayenne S (WLTP)*: Fuel consumption combined: 12.6 – 12.0 l/100 km; CO_2 emissions combined: 287 – 272 g/km; CO_2 class: G

*Further information on the official fuel consumption and the official specific CO_2 emissions of new passenger cars can be found in the "Leitfaden über den Kraftstoffverbrauch, die CO_2-Emissionen und den Stromverbrauch neuer Personenkraftwagen" (Fuel Consumption, CO_2Emissions and Electricity Consumption Guide for New Passenger Cars), which is available free of charge at all sales outlets and from DAT (Deutsche Automobil Treuhand GmbH, Helmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, www.dat.de).

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