

Assistance systems: Enhanced performance in snow and off-road

- › XDS+ system acts as a limited-slip differential and facilitates dynamic cornering
- › Off-road, Snow and Traction modes provide support in demanding driving situations
- › Hill Descent Control regulates the vehicle's speed on steep slopes

Mladá Boleslav, 17 January 2023 – Škoda's all-wheel-drive models feature special electronic assistance systems to help in demanding driving situations and deliver even more driving pleasure. The XDS+ system extends the range of functions of the electronic differential lock (EDL) and facilitates more dynamic cornering. In wintry conditions on and off the road, drivers of Škoda 4×4 models benefit from the Snow and Off-road driving profiles, as well as Hill Descent Control.

Škoda Auto's all-wheel-drive vehicles are equipped with an electronic differential lock (EDL) on the front and rear axles. These engage at lower speeds when a wheel on the respective axle starts to spin. The system first brakes the wheel that is spinning and then transfers more torque to the wheel with better traction. The XDS+ system also provides support at higher speeds and thus enables even more precise track guidance in dynamic cornering. As soon as the electronics detect that one of the inside wheels is under too much load, the system applies targeted brake pressure to this wheel using the Electronic Stability Control (ESC) hydraulics to restore optimal traction. The XDS+ acts as a limited-slip differential and compensates for understeer when cornering at speed.

Safe driving in snow and off-road

The 4×4 versions of the Karoq and Kodiaq feature Snow mode in the Driving Mode Select driving profiles, while the 4×4 versions of the Octavia, Superb, Karoq and Kodiaq can also come with Off-road mode, depending on the trim level. The off-road profile optimises the assistance systems' characteristic curves for off-road driving. It is active at speeds of up to 30 km/h and includes pull-away, traction and braking assistance as well as Hill Descent Control. This regulates the vehicle's speed during steep off-road descents using the braking system and engine brake torque. In Off-road mode, the infotainment display also provides data such as the steering angle, a compass and an altimeter. The Snow profile assists with low traction, while the anti-lock braking system (ABS) allows slightly more wheel slip and builds up snow in front of the tyres to improve braking performance. At the same time, the Traction Control System (TCS) does not intervene when the wheels are spinning slightly, enabling the tyre tread to grip better. The 7-speed DSG selects higher gears in the lower rev range than in normal operation and the accelerator pedal is less direct in its response to prevent sudden increases in torque and thus wheelspin.

Traction driving profile for Enyaq iV models

For driving on unpaved or slippery surfaces, Enyaq iV family models feature a Traction driving profile with constant four-wheel drive up to 20 km/h. At the same time, this mode reduces torque output and adjusts damping to Soft in vehicles with the optional Dynamic Chassis Control (DCC) to maximise traction.

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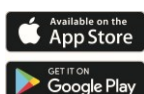
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Škoda Auto

- › is successfully steering the new decade with the Next Level – Škoda Strategy 2030.
- › aims to be one of the five best-selling brands in Europe by 2030, with an attractive line-up in the entry-level segments and more e-models.
- › is emerging as the leading European brand in important growth markets like India and North Africa.
- › currently offers its customers 12 passenger-car series: the Fabia, Rapid, Scala, Octavia and Superb, as well as the Kamiq, Karoq, Kodiaq, Enyaq iV, Enyaq Coupé iV, Slavia and Kushaq.
- › delivered over 731,000 vehicles to customers around the world in 2022.
- › has been a member of the Volkswagen Group, one of the most successful vehicle manufacturers in the world, for 30 years.
- › independently manufactures and develops not only vehicles but also components like engines and transmissions in association with the Group.
- › operates at three sites in the Czech Republic and has additional production capacity in China, Russia, Slovakia and India, primarily through Group partnerships, as well as in Ukraine with a local partner.
- › employs 45,000 people globally and is active in over 100 markets.