

Polestar

Polestar 4 is a new breed of SUV coupé

April 18, 2023



GOTHENBURG, Sweden – 18 April 2023. Polestar (Nasdaq: PSNY) introduces Polestar 4, an electric performance SUV coupé and the second SUV in the brand's line-up. Polestar 4 transforms the aerodynamics of a coupé and the space of an SUV into a new breed of SUV coupé. Design cues first seen on Polestar's concept cars are brought to production in the fastest Polestar production car to date. Polestar 4 is positioned between Polestar 2 and Polestar 3 in terms of size and price.

"With Polestar 4 we have taken a fundamental new approach to SUV coupé design. Rather than simply modifying an existing SUV, giving it a faster roofline and as a result, compromising elements like rear headroom and comfort, we have designed Polestar 4 from the ground up as a new breed of SUV coupé that celebrates rear occupant comfort and experience," says Thomas Ingenlath, Polestar CEO.

Design

As a design-driven brand, the design of Polestar 4 sees the continuation of key elements first shown by the Polestar Precept concept car, coming to life. This includes eliminating the rear window which enables a new kind of immersive rear occupant experience, and the separation of the dual blade front lights with unique Polestar light signature – complemented by the Polestar emblem with millimetre-precision lighting from below.

Aerodynamic efficiency is enhanced by the low nose, retractable door handles, flush glazing with frameless windows, rear aero blades and air flow optimisation around the rear light bar.

Built on the premium Sustainable Experience Architecture (SEA) developed by Geely Holding, Polestar 4 is a D-segment SUV coupé with a large body and long, 2,999 mm wheelbase. Overall length is 4,839 mm, width is 2,139 mm and height is 1,544 mm. The resulting generous interior proportions are especially evident in the rear, where occupants are cocooned in an intimate environment, with reclining seats. Adjustable ambient lighting that adds an extra dimension to the interior, inspired by the solar system, allows the driver to customise the driving environment.

The standard full-length glass roof is available with optional electrochromic functionality, allowing for opaque or transparent execution depending on the mood. Thanks to the elimination of the rear window, the glass roof stretches beyond the rear occupants' heads, creating a truly unique interior ambience. A secondary media and climate control screen is mounted between the front seats to enable rear occupant control.

The rear-view mirror is replaced by a high-definition screen that shows a real-time feed from a roof-mounted rear camera – enabling a far wider field of view than what can be experienced in most modern cars. The digital feed can be deactivated to allow drivers to instead see rear occupants if needed.

Maximilian Missini, Head of Design at Polestar, says: "With Polestar Precept we previewed a stunning new occupant experience by removing the rear window and pushing the rear header, which plays an integral safety role, further back. This means that now, rear occupants can have a unique experience in our SUV coupé."

The interior and its materials have been designed around the theme of 'soft tech', drawing inspiration from the fashion and sportswear industries. Colour and material choices for Polestar 4 explore new executions for Polestar – including new exterior colours Storm and Electron, and a unique new interior colour, Mist.

Sustainability

In Polestar 4, more circular and low-carbon materials replace traditional solutions. This includes measures for greater supply chain transparency, like blockchain traceability for risk materials in the batteries. A full lifecycle assessment (LCA), showing the true carbon footprint of the car, will be published alongside the Polestar 4 Product Sustainability Declaration in 2024.

A mono-material approach, first presented in the Polestar electric roadster concept in 2022, is applied to interior materials, where all layers of certain components are produced from the same base material. This allows them to be recycled more effectively and efficiently by eliminating the need for incompatible materials to be separated before recycling.

New interior materials include a tailored knit textile which consists of 100% recycled PET, along with bio-attributed MicroTech vinyl and animal welfare-secured Nappa leather upholstery.

The tailored knit upholstery is a new technique for the automotive industry. First shown in the Precept concept car, the textile is made from 100% recycled polyester. The material and the design have been created by Polestar designers together with the Swedish School of Textiles (Borås Textilhögskolan) and further developed with suppliers. It is made to fit, producing no offcuts and reduced overall waste.

Inlay carpets in the interior are made using recycled PET and floor carpets are made using ECONYL, which includes reclaimed fishing nets. Specific door trim panels are made from NFPP (natural fibre polypropylene) which results in up to 50% less virgin plastic and a weight saving of up to 40%. MicroTech, first introduced in Polestar 3, is a bio-attributed vinyl that replaces crude oil with pine oil in its construction and features a recycled textile backing.

Performance

Polestar 4 is the fastest production car the brand has developed to date. The 0-100 km/sprint can be completed in just 3.8 seconds^[1] and maximum power output is 400 kW (544 hp). Motors are of a permanent magnet, synchronous design. Driving dynamics are true to the Polestar brand – sharp steering and handling responses result in a thrilling and nimble driving experience for all occupants.

Both dual- and single motor versions will be available, with single-motor versions featuring rear-wheel drive. Despite the high output and performance, control and confidence are always key factors to produce a responsible, everyday-enjoyable EV experience. Semi-active suspension features in the dual-motor version for an additional layer of adjustment between comfort and performance dynamics. Wheels range from 20 to 22-inches in size, depending on the version, with tyres supplied by Pirelli and Michelin.

A 102 kWh battery is fitted to both long-range versions. The Long range Dual motor features 400 kW (544 hp), 686 Nm and a preliminary range target of up to 560 km WLTP^[2]. A disconnect clutch allows the car to disengage the front electric motor when not needed, to maximise range and efficiency.

Up to 200 kW DC and 22 kW AC charging is included for all versions, and the charge lid is motorised. Bi-directional charging is included, with vehicle-to-load (V2L) capability at launch providing for external devices to draw power from Polestar 4. A heat pump is fitted as standard, allowing the car to capitalise on ambient heat when preconditioning the cabin and battery.

A new drive optimisation function allows the driver to select between eco or performance driving modes in the Long range Dual motor version. Performance mode sharpens up responsiveness from the powertrain and engages both motors at all times for full power delivery and best performance. Range mode prioritises efficiency, adapting the powertrain to a calmer style and forces use of only the rear motor.

The Long range Single motor version features a 200 kW (272 hp) and 343 Nm motor at the rear and preliminary range target of up to 600 km WLTP^[2].

Technology

Polestar continues to push technology towards a more entertaining, connected and autonomous future in all its cars. In Polestar 4, the infotainment system powered by Android Automotive OS and the Snapdragon Cockpit Platform now utilises a 15.4-inch landscape-oriented screen.

With Google built-in, including Google Assistant, Google Maps and Google Play, Polestar continues to offer a leading connected experience. The close collaboration with Google allows Polestar to keep pushing the boundaries of the system.

A Harman Kardon audio system is available as an option with 12 speakers and 1,400-Watt channel-hybrid amplifier. An additional two headset speakers are added to each front seat with the optional Nappa Pack – raising the total to 16. Naturally, Apple CarPlay is included.

As with all other Polestar cars, regular over-the-air (OTA) updates allow for new features and improvements to be sent remotely to all vehicles, removing the need to visit a workshop to gain the latest software.

Safety

Safety is part of Polestar's DNA thanks to its strong connection to Volvo Cars and these safety genes are built into Polestar 4, which features leading safety technology inside and out – tested to the same exacting standards as all other Polestar cars. Up to nine airbags are included. New partnerships bring intelligent safety technology to the fore, including the SuperVision Advanced Driver Assistance System from Mobley.

A total of twelve cameras, one radar and twelve ultrasonic sensors are fitted as standard. This includes a driver monitoring camera, which only relays data and does not record video, to monitor the driver's eyes and head movements to help avoid incidents related to fatigue or incapacitation. Together with hands-on detection in the steering wheel, the driver monitoring system helps to keep the driver actively engaged in driving, as required.

A 10.2-inch driver display is mounted ahead of the steering column and includes speed, battery and range information. When engaged by various assistance systems, a virtual environment can show other road users, current driving assistance functions and navigation information. To reduce distraction, a head-up display (HUD) with 14.7-inch projection area in front of the driver relays key vehicle, telephony and navigation information to the windscreens, further improving driver attentiveness. A clever 'snow mode' function for the HUD switches the text colour from white to yellow, improving visibility in snowy environments.

The optional Pilot Pack includes enhanced Pilot Assist with lane change assistance, initiated by the driver tapping the indicator stalk in the desired direction.

Equipment packs

Standard vehicle specification is high, with additional packages tailored to adding specific options that enhance overall enjoyment. The Plus Pack comprises comfort and technology upgrades, with the Plus Pro Pack adding a colour-coded body execution, the electrochromic glass roof and additional interior illumination. The Nappa Pack can be specified in addition to the Plus Pack, and includes animal welfare-secured Nappa leather upholstery with ventilation, massage and additional headset speakers for the front seats.

The Pilot Pack includes Pilot Assist and its Extended features. The Performance Pack increases the performance look and driving experience of the Long range Dual motor version, with 22-inch wheels, 4-piston Brembo brakes, Polestar Engineered performance chassis tuning and Swedish golf details for the brakes, seat belts and valve caps.

Production, availability and pricing

Polestar 4 launches first in China, with production planned to begin in Hangzhou Bay, China, in November 2023. The state-of-the-art Geely-owned production facility operates on 100% renewable electricity.

A full-scale launch for other markets, including in Europe, North America and Asia Pacific, is planned for early 2024 – with sales and production ramping up for these markets through the course of that year. All details for these markets will be presented in 2024. Indicative launch pricing^[3] is from EUR 60,000/USD 60,000/GBP 55,000. More information can be found at [polestar.com/polestar-4](https://www.polestar.com/polestar-4).

Ends.

Notes to editors

- 1. Preliminary data. Final data to be confirmed at a later date.
- 2. Preliminary data. Certified range and energy consumption data to be confirmed at a later date.
- 3. Final pricing to be communicated when orders open.

Google, Google Play, and Google Maps are trademarks of Google LLC.

About Polestar

Polestar (Nasdaq: PSNY) is the Swedish electric performance car brand determined to improve society by using design and technology to accelerate the shift to sustainable mobility. Headquartered in Gothenburg, Sweden, its cars are available online in 27 markets globally across North America, Europe and Asia Pacific. The company plans to create a truly climate-neutral production car, without offsetting, by 2030.

Polestar 2 launched in 2019 as the electric performance fastback with avant-garde Scandinavian design and up to 350 kW. Polestar 3 launched in late 2022 as the SUV for the electric age – a large high-performance SUV that delivers sports car dynamics with a low stance and spacious interior. Polestar plans to release three more electric performance vehicles through to 2026.

Forward-Looking Statements

Certain statements in this press release ("Press Release") may be considered "forward-looking statements" as defined in the Private Securities Litigation Reform Act of 1995. Forward-looking statements generally relate to future events or the future financial or operating performance of Polestar. For example, projections of revenue, volumes and other financial or operating metrics are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may," "should," "expect," "intend," "will," "estimate," "anticipate," "believe," "predict," "forecast," "plan," "seek," "future," "propose" or "continue", or the negatives of these terms or variations of them or similar terminology. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward-looking statements.

These forward-looking statements are based upon estimates and assumptions that, while considered reasonable by Polestar and its management, as the case may be, are inherently uncertain. Factors that may cause actual results to differ materially from current expectations include, but are not limited to: (1) Polestar's ability to maintain agreements or partnerships with its strategic partners, Volvo Cars and Geely, and to develop new agreements or partnerships; (2) Polestar's ability to maintain relationships with its existing suppliers, and source new suppliers for its critical components, and to complete building out its supply chain, while effectively managing the risks due to such relationships; (3) Polestar's reliance on its partnerships with vehicle charging networks to provide charging solutions for its vehicles and its reliance on strategic partners for servicing its vehicles and their integrated software; (4) Polestar's reliance on its partners to manufacture vehicles at a high volume, some of which have limited experience in producing electric vehicles, and on the allocation of sufficient production capacity to Polestar by its partners in order for Polestar to be able to increase its vehicle production capacities; (5) competition, the ability of Polestar to grow and manage growth profitably, maintain relationships with customers and suppliers and retain its management and key employees; (6) Polestar's estimates of expenses and profitability; (7) increases in costs, disruption of supply or shortage of materials, in particular for lithium-ion cells or semiconductors; (8) the possibility that Polestar may be adversely affected by other economic, business, and/or competitive factors; (9) the effects of competition and the high barriers to entry in the automotive industry, and the pace and depth of electric vehicle adoption generally on Polestar's future business; (10) changes in regulatory requirements, governmental incentives and fuel and energy prices; (11) the outcome of any legal proceedings that may be instituted against Polestar or others; (12) the ability to meet stock exchange listing standards; (13) risks associated with changes in applicable laws or regulations and with Polestar's international operations; (14) Polestar's ability to establish its brand and capture additional market share, and the risks associated with negative press or reputational harm, including from lithium-ion battery cells catching fire or venting smoke; (15) delays in the design, manufacture, launch and financing of Polestar's vehicles and Polestar's reliance on a limited number of vehicle models to generate revenues; (16) Polestar's ability to continuously and rapidly innovate, develop and market new products; (17) risks related to future market adoption of Polestar's offerings; (18) risks related to Polestar's distribution model; (19) the impact of the global COVID-19 pandemic, inflation, interest rate changes, the ongoing conflict between Ukraine and Russia, supply chain disruptions and logistical constraints on Polestar, Polestar's projected results of operations, financial performance or other financial and operational metrics, or on any of the foregoing risks; and (20) other risks and uncertainties set forth in the sections entitled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements" in Polestar's Form 20-F, and other documents filed, or to be filed, with the SEC by Polestar. There may be additional risks that Polestar presently does not know or that Polestar currently believes are immaterial that could also cause actual results to differ from those contained in the forward-looking statements.

Nothing in this Press Release should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. Polestar assumes no obligation to update these forward-looking statements, even if new information becomes available in the future.