

## Press Release

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# The new, fully electric Volvo EX90: the start of a new era for Volvo Cars

To find out even more about the Volvo EX90, make sure to also read our [user experience blog post!](#)

A true seven-seater, all-electric SUV that further raises our standards in safety and a more sustainable lifestyle: the new Volvo EX90 represents the start of a new era for our company in which we set a decisive course for a fully electric future.

Starting with the Volvo EX90, we'll reveal one new fully electric car each year. By 2030, we aim to sell only fully electric cars, one of the most ambitious electrification blueprints in the automotive industry and crucial to our ambition to be a climate-neutral company by 2040.

We revealed our new fully electric flagship SUV to the world in downtown Stockholm today, reflecting our Swedish roots. At the same time, reflecting our global footprint as a company, the Volvo EX90 will be built in the USA starting next year and later also in China. By then, we aim for those two production facilities to be climate-neutral.

A new instant classic in Scandinavian design, the Volvo EX90 defines the principle of form following function. It's a versatile, stylish family car with modern proportions, combined with cutting-edge technology in core computing, connectivity and electrification to optimise safety, efficiency and aesthetics.

*"The Volvo EX90 is a statement for where we are, and where we are going," said Jim Rowan, our Chief Executive. "It's fully electric with a range of up to 600 kilometres on a single charge, designed to further raise our safety standards, the first Volvo car to be truly defined by its software and part of a wider ecosystem, connecting to your home and your other devices. The Volvo EX90 is the start of something new for Volvo Cars in many ways."*

### Keeping you and your loved ones safe

The standard of safety in the Volvo EX90 is also higher than any Volvo car before it. It's designed to understand you and its surroundings to help keep you, your loved ones and others in traffic safe. It can also get smarter and safer over time, as it learns from new data and receives updates.

The Volvo EX90 has an invisible shield of safety enabled by our latest sensing technology, inside and outside. State-of-the-art sensors such as cameras, radars and lidar are connected to the car's high-performance core computers, where NVIDIA DRIVE runs Volvo Cars' in-house software to create a real-time, 360-degree view of the world.

Our sensors don't get tired or distracted. They are designed to respond and react when you're just a fraction too late. Our lidar, delivered by Luminar, can sense the road in front of you, whether it's day or night, also at highway speeds. It can see small objects hundreds of metres ahead, creating more time to inform, act and avoid. The sensors also contribute to improve the reliability and overall performance of our assisted driving function Pilot Assist, with a new steering support while changing lanes.

Inside, our invisible shield of safety also looks out for you. Special sensors and cameras, powered by our own in-house-developed algorithms, gauge eye gaze concentration. The technology allows

the Volvo EX90 to understand when you're distracted, drowsy or otherwise inattentive, beyond what has been possible in a Volvo car to date.

It'll alert you, first softly nudging, then more insistent. And if the unthinkable happens and you fall asleep or are taken ill while driving, the Volvo EX90 is designed to safely stop and call for help.

Finally, thanks to the state-of-the-art sensor set including lidar, the Volvo EX90 is the first Volvo that's hardware-ready for unsupervised driving in the future.

### **Technology with a purpose**

A core system – powered by NVIDIA DRIVE AI platforms Xavier and Orin, Snapdragon® Cockpit Platforms from Qualcomm Technologies and in-house-developed software by Volvo engineers – runs most of the core functions inside the car, from safety and infotainment to battery management. The result is a more responsive and enjoyable experience inside the car.

In other words, your Volvo EX90 won't be just a new car, it will be a highly advanced computer on wheels. Even better, just like your smartphone or your laptop, the Volvo EX90 is designed to get better over time, thanks to regular over-the-air software updates.

By combining the state-of-the-art computing power from Snapdragon's Cockpit Platforms with the visualisation capabilities of Unreal Engine, the 3D tool developed by Epic Games and used to power some of the world's largest games, you get lightning-fast computing power and high-quality graphics on the in-car screens and head-up display.

A 14.5-inch centre screen is your gateway to one of the best infotainment systems on offer, with Google built in. Google apps and services, including hands-free help from Google Assistant, Google Maps navigation and more of your favourite apps on Google Play, all come built in. The displays in the Volvo EX90 help you keep your eyes on the road by offering you the right information at the right time. The Volvo EX90 will also be compatible with wireless Apple CarPlay.

Thanks to the standard 5G connection, where available, it's never been easier to install the apps you need on your home screen and enjoy highly intuitive navigation. You can also stream your favourite music through the new, reference-quality Bowers & Wilkins audio system featuring Dolby Atmos as a Volvo-first, plus headrest-integrated speakers for immersive sound.

The Volvo EX90 will also come with phone key technology as standard. Your smartphone serves as your car key and automatically unlocks the car and starts a personal welcoming sequence as you approach. Your personal profile will also be loaded automatically as you enter the car.

All of this technology comes together in one of the most pleasant and elegant car interiors on the market, full of natural and responsibly sourced materials. That interior composition also reflects our sustainability ambitions, such as being a fully circular and climate-neutral company by 2040.

### **Supporting a more sustainable lifestyle**

With its brand-new, in-house-developed fully electric technology base, the Volvo EX90 is your perfect companion for a more sustainable family lifestyle. Delivering up to 373 miles (600 kilometres) of tailpipe-emission-free driving range on a single charge, according to the WLTP test cycle, it charges from 10 to 80 per cent battery capacity in under 30 minutes.

The initially available twin-motor all-wheel-drive version is powered by a 111kWh battery and two permanent magnet electric motors together delivering in its performance version 380kW (517hp) and 910Nm of torque. In combination with the brand-new chassis, this creates a great and smooth driving experience.

The Volvo EX90 contains approximately 15 per cent of recycled steel, 25 per cent of recycled aluminium as well as 48 kilogrammes of recycled plastics and bio-based materials, which corresponds to around 15 per cent of the total plastic used in the car – the highest level of any Volvo car to date.

Finally, the Volvo EX90 is our first car with all the necessary hardware to enable bi-directional charging. It's a technology whereby you can use your car battery as an extra energy supply, for example to power your home, other electric devices or another electric Volvo car. We plan to make bi-directional charging available in the future, starting with selected markets.

### **The small print**

- Described features might be optional and the availability of the features and services mentioned above may differ between markets.
- Charging and range figures are preliminary and derive from estimates and calculations performed by Volvo Cars for the Volvo EX90 and these outcomes are not guaranteed. Preliminary range figure is for the initially available twin-motor all-wheel-drive version (300kW/408hp). Preliminary range varies for other trim levels. The driving range and energy consumption under real conditions vary depending on driving behaviour and other external factors. Charging times can vary and are dependent on factors such as outdoor temperature, battery temperature, charging equipment, battery condition and car condition. Car certification pending.
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### **Volvo Cars in 2021**

*Volvo Car Group recorded an operating profit of 20.3 BSEK. Revenue in 2021 amounted to 282.0 BSEK, while global sales reached 698,700 cars.*

### **About Volvo Car Group**

*Volvo Cars was founded in 1927. Today, it is one of the most well-known and respected car brands in the world with sales to customers in more than 100 countries. Volvo Cars is listed on the Nasdaq Stockholm exchange, where it is traded under the ticker "VOLCAR B".*

*Volvo Cars aims to provide customers with the Freedom to Move in a personal, sustainable and safe way. This is reflected in its ambition to become a fully electric car maker by 2030 and in its commitment to an ongoing reduction of its carbon footprint, with the ambition to be a climate-neutral company by 2040.*

*As of December 2021, Volvo Cars employed approximately 41,000 full-time employees. Volvo Cars' head office, product development, marketing and administration functions are mainly located in Gothenburg, Sweden. Volvo Cars' production plants are located in Gothenburg, Ghent (Belgium), South Carolina (US), Chengdu, Daqing and Taizhou (China). The company also has R&D and design centres in Gothenburg, Camarillo (US) and Shanghai (China).*

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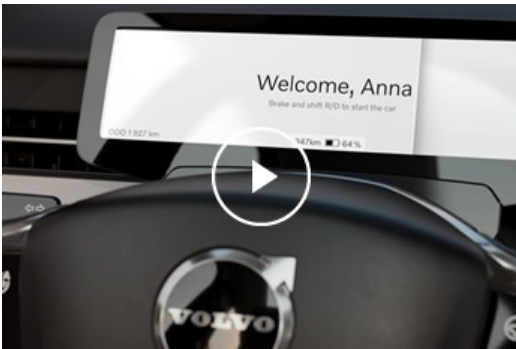
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