

## Press Release

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# Volvo Cars introduces world first multi-adaptive safety belt in the upcoming Volvo EX60

Today, Volvo Cars unveils a major safety improvement to the safety belt. The new multi-adaptive safety belt is a world-first technology aimed to further enhance safety for everyone in real-world traffic situations.

Debuting in the upcoming fully electric Volvo EX60 in 2026, the new safety belt is designed to better protect people by adapting to traffic variations and the person wearing it, thanks to real-time data from the car's advanced sensors.

The new multi-adaptive safety belt can use data input from interior and exterior sensors to customise protection, adapting the setting based on the situation and individual's profiles, such as their height, weight, body shape and seating position. For example, a larger occupant in a serious crash will receive a higher belt load setting to help reduce the risk of head injury. While a smaller occupant in a milder crash will receive a lower belt load setting to reduce the risk of rib fractures.

This is achieved by significantly increasing the number of so-called load-limiting profile variations, which manage the force applied to the occupants in the event of an accident. And thanks to over-the-air software updates, it gets better over time.

*"The world first multi-adaptive safety belt is another milestone for automotive safety and a great example of how we leverage real-time data with the ambition to help save millions of more lives," says Åsa Haglund, head of Volvo Cars Safety Centre. "This marks a major upgrade to the modern three-point safety belt, a Volvo invention introduced in 1959, estimated to have saved over a million lives."*

### **Leveraging data to improve safety**

Thanks to over five decades of safety research and a database of over 80,000 occupants involved in real-life accidents, Volvo Cars has built unique safety knowledge capturing the complexity of the real world. It sets the foundation for the company's safety innovations over the years and the pioneering Volvo Cars Safety Standard, which exceeds official testing requirements.

Building on Volvo Cars' long history of creating cars with the ambition to be equally safe for everyone based on real-world data, the company has been exploring new technologies to better protect different people in various crash scenarios.

Modern safety belts use load limiters to control how much force the safety belt applies on the human body during a crash. This new safety belt expands the load-limiting profiles from three to eleven and increases the possible number of settings, enabling it to optimise performance for each situation and individual.

Unlike traditional systems, the new multi-adaptive safety belt can utilise data from different sensors, including exterior, interior and crash sensors. In less than a blink of an eye, the car's system analyses the unique characteristics of a crash – such as direction, speed, and passenger posture – and shares that information with the safety belt. Based on this data, the system selects the most appropriate setting.

### **Better over time**

The capabilities of the new multi-adaptive safety belt are designed to continuously improve via over-the-air software updates. As Volvo Cars gathers more data and insights, the car can improve its understanding of the occupants, new scenarios and response strategies.

The new safety belt is part of Volvo Cars' broader safety ecosystem, working seamlessly with airbags, occupant detection and driver assistance systems. This cooperation provides harmonised protection features, enhances effectiveness and minimises the risk of subsequent injuries.

The belt has been tested and further developed at the Volvo Cars Safety Centre crash lab, which celebrates its 25th anniversary this year. In the industry-leading crash lab, Volvo Cars' safety engineers can recreate almost any traffic accident and perform tests that exceed regulatory requirements for real-world safety. This multifunctional facility has been essential for Volvo Cars to maintain its position as a leader in automotive safety.

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### **Volvo Cars in 2024**

*For the full year 2024, Volvo Car Group recorded a record-breaking core operating profit of SEK 27 billion. Revenue in 2024 amounted to an all-time high of SEK 400.2 billion, while global sales reached a record 763,389 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".*

*"For life. To give people the freedom to move in a personal, sustainable and safe way." This purpose is reflected in Volvo Cars' ambition to become a fully electric car maker and in its commitment to an ongoing reduction of its carbon footprint, with the ambition to achieve net-zero greenhouse gas emissions by 2040.*

*As of December 2024, Volvo Cars employed approximately 42,600 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 and Shanghai (China).*

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Descriptions and facts in this press material relate to Volvo Cars' international car range. Described features might be optional. Vehicle specifications may vary from one country to another and may be altered without prior notification.

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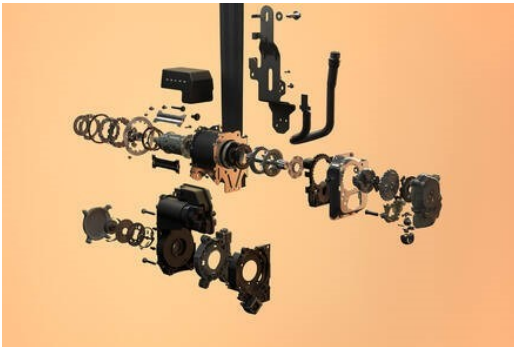
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