



For Immediate Release

## Adient and Autoliv Unveil Breakthrough in Dynamic Seat Safety Solutions

**PLYMOUTH, Mich., October 13, 2025** – Adient, a global leader in automotive seating, and Autoliv, a leading supplier of automotive safety systems, have co-developed innovative safety solutions that significantly enhance occupant protection in deeply reclined seating positions – commonly referred to as *zero-gravity*. These solutions, now ready for mass production, combine Adient's new seating concept, Z-Guard, with Autoliv's advanced safety technologies.

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As electrification and smart technologies continue to reshape the automotive industry, zero-gravity seating is gaining popularity in mid- to high-end vehicle models due to its ergonomic benefits. However, the deeply reclined posture can compromise the effectiveness of conventional safety systems, which are typically designed for standard upright seating, potentially leading to safety risks.

To address this challenge, Adient and Autoliv have jointly developed a groundbreaking safety solution that represents a major advancement in occupant protection in deeply reclined seating positions.

### Multi-Dimensional Collaborative Protection: Full-Process Dynamic Safety System

Adient's Z-Guard is built around the principle of **Multi-Dimensional Collaborative Protection**, integrating advanced constraint and energy-absorbing technologies into a dynamic safety system designed to protect occupants in the event of a collision. At its core are two key innovations:

- > **Active Cushion Collapse Mechanism:** In a crash, this feature rapidly collapses the seat frame to absorb energy and adjust posture, thereby reducing spinal impact and providing protection to vital body regions.



- > **Adjustable Seat Belt Outlet:** This feature adapts to various passenger postures and body types, enhancing comfort while maximizing precise restraint and minimizing risks like shoulder slippage.

Complementing these innovations are additional technologies from Autoliv: the **Integrated Seatbelt System** for improved stability, **Dynamic Lumbar Retractor** for controlled restraint force, **Pelvic Cushion Airbag** to reduce pelvic impact, and **Head Side Airbag** for enhanced side collision protection in reclined positions. Together, these systems help safeguard critical areas – head, neck, chest, and pelvis – delivering truly dynamic, full-process occupant protection.

#### **Proactive Predictive Protection: Building an Intelligent Safety Shelter**

The Z-Guard concept enables deep integration with vehicle driver assistance systems, tailored to OEM requirements and real-world scenarios. Leveraging predictive signals, it utilizes high-speed, motor-driven seat repositioning to adjust the occupant's posture before a collision to reduce the risk of injury.

In cases where a vehicle cannot detect a crash in time or lacks active repositioning capabilities, Z-Guard still provides robust protection through dual pretensioners, cushion buffering and a collapse mechanism. These systems work in concert to prevent forward movement and submarining, enhancing reliable safety even in zero-gravity seating positions.

#### **Toward Mass Production: Reshaping Industry Standards Together**

The new seating concept is designed to meet the evolving demands of cockpit electronic architecture in the era of software-defined vehicles, seamlessly integrating safety features into the smart cockpit environment. With Adient leading the commercialization, Z-Guard is now scheduled for production in a high-volume model from a major global OEM – marking a significant milestone in bringing advanced occupant protection to market.



**About Adient:**

Adient (NYSE: ADNT) is a global leader in automotive seating. With around 70,000 employees in 29 countries, Adient operates more than 200 manufacturing/assembly plants worldwide. We produce and deliver automotive seating for all major OEMs. From complete seating systems to individual components, our expertise spans every step of the automotive seat-making process. Our integrated, in-house skills allow us to take our products from research and design to engineering and manufacturing — and into millions of vehicles every year. For more information on Adient, please visit [www.adient.com](http://www.adient.com).

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