

# Press Information

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## **VOLVO TRUCKS INCREASES I-SHIFT GEARBOX SHIFTING SPEED BY UP TO 30 PER CENT**

**Volvo Trucks' intelligent and automated I-Shift gearbox is now faster than ever. The quicker response provides improved driveability and smoothness to the driving of both diesel and electric heavy-duty trucks.**

The significant driveability improvement, which has been added to drivelines at all emission levels, is achieved by the new way in which the I-Shift gearbox interacts with the engine.

The update includes faster clutch activation that results in a shorter torque interruption. It also makes the gear shifting smoother, for a more harmonious driving experience.

"Faster gear shifting makes it possible to optimise the gear selection more efficiently. And the more shifting events that the road and terrain requires, the more the improvements will be appreciated by the driver. With up to 30 per cent faster gear changing now possible using I-Shift, drivers will certainly experience a very positive difference," says Pär Bergstrand, Heavy Duty Transmission Manager at Volvo Trucks.

The high-speed shifting is achieved based on several key improvements. First, updated sensors now provide data with higher accuracy to the control unit, which features new software and a faster microprocessor, for much quicker calculation times.

Second, an added disc in the gearbox brake makes it react faster before a gear shift, so it can be done earlier.

Finally, the air volume has also been reduced in different actuation systems, for example the shift forks, the clutch and the gearbox brake, to further enable a faster gear shift.

When I-Shift was introduced in 2001, it was the first-ever automated transmission designed for heavy duty trucks. It has the ability to work with the entire powertrain, as this transmission system is tailored to the engine and vehicle components already from the development phase, contributing to lower fuel consumption – and thereby reduced environmental impact.

It also promotes increased safety and other important benefits including reduced noise, vibrations and physical strain on the driver.

These latest advances to gain 30 per cent faster gear changes are further evidence of Volvo's never ending, continuous improvement actions to provide better all-round driveability.

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“With all the improvements and new variants over the years, I-Shift has had an outstanding ability to solve more and more advanced tasks in efficient ways. This means not only delivering high performance and fuel efficiency but also outstanding driveability and comfort for the drivers,” adds Bergstrand.

Today all heavy-duty Volvo trucks are built with I-Shift as standard. Since its introduction, more than one million trucks have been sold globally with Volvo’s unique I-Shift technology.

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**Caption for photograph:**

Volvo Trucks has increased its I-Shift gearbox shifting speed by up to 30 per cent – improving driveability further.

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*Volvo Trucks supplies complete transport solutions for discerning professional customers with its full range of medium- and heavy-duty trucks. Customer support is provided via a global network of dealers with 2,200 service points in about 130 countries. Volvo trucks are assembled in 13 countries across the globe. In 2021 approximately 123,000 Volvo trucks were delivered worldwide. Volvo Trucks is part of the Volvo Group, one of the world’s leading manufacturers of trucks, buses, construction equipment and marine and industrial engines. The group also provides complete solutions for financing and service. Volvo Trucks’ work is based on the core values of quality, safety and environmental care.*