

PRESS RELEASE

Volvo launches new electric trucks – with ranges up to 700 km

NEWS SUMMARY:

- *Volvo Trucks unveils the FH Aero Electric with extended range, capable of driving up to 700 km on a single charge*
- *The new long-distance model features a compact e-axle which integrates two electric motors and six-speed gearbox into the rear axle, freeing up chassis space for more batteries*
- *The Volvo FH, FM and FMX Electric trucks have also been upgraded with an all-new driveline to boost their maximum driving ranges up to 470 km*

Volvo Trucks has set a new benchmark for heavy-duty trucks with the launch of its latest electric models with improved performance, flexibility and ranges up to 700 km.

The manufacturer is already a global leader in the electric heavy goods vehicle segment, with one of the largest electric truck lineups in the industry. The company has now improved its offer further with some ground-breaking new additions.

First, a new long-distance electric truck, **the FH Aero Electric with extended range, capable of driving up to 700 km on one charge*** – a significant breakthrough for heavy electric trucks.

Second, the next generation heavy-duty Volvo FH, FM and FMX Electric trucks, with major improvements in flexibility, productivity, driving comfort and with ranges up to 470 km* – making it possible to switch even more transport assignments to battery-powered drivelines.

Roger Alm, President, Volvo Trucks, says: “We’re really sharpening our offering here. We are broadening it and making electric solutions possible for an even wider range of transport assignments, and also adding a cutting-edge electric truck with a range of up to 700 km. This means we can fully match the business needs of our customers. It has never been easier to replace diesel trucks with electric ones.

“We stand firm in our belief that electric vehicles will deliver a large part of the world’s truck transport in the future. With the amazing performance of all our new trucks, it’s easy to see why.”

Long-distance truck – up to 700 km range, megawatt charging and high payload

The new Volvo FH Aero Electric with extended range can drive up to 700 km on one charge thanks to a new driveline technology, the e-axle, which creates space for significantly more battery capacity onboard.

The truck is adapted to the new MCS (Megawatt Charging System) standard and can charge eight batteries from 20% to 80% in approximately 50 minutes. This charging can be done within the legislated rest period for truck drivers in the EU, improving productivity.

“This long-haul electric truck is the best in the industry. It offers an outstanding range in combination with high payload, fast charging and great riding comfort. With this truck, our customers can drive really long distances and throughout an entire working day with the same productivity as diesel trucks,” says Alm.

New FH, FM, FMX trucks – up to 470 km range, all-new versatile driveline, and superior driveability

The new FH, FM, and FMX Electric trucks have an all-new driveline designed for maximum flexibility across different applications. It offers excellent driveability and is engineered so that the truck can power auxiliary equipment such as a concrete mixer, hook lift or refuse unit without extra motors or add-ons. This is due to an integrated gearbox power take-off (PTO) with increased functionality, enabling usage during driving. The trucks will have a range of up to 470 km and can be charged from 20% to 80% in approximately 65 minutes.

“The next-generation FH, FM and FMX Electric are packed with new smart functions, they offer great driver comfort and make zero tailpipe emissions transport available for a very wide range of transport assignments,” says Alm.

Seamless gear shifting with all-new trucks

All the new trucks are equipped with a gearbox optimised for electric transmission paired with dual motors to deliver smoother and more controlled performance. The new powershift gearboxes – eight-speed on the new Volvo FH, FM and FMX Electrics and six-speed on the FH Aero Electric with extended range – offer seamless gear shifting and also produce less noise and vibration for a more comfortable workday.

The new trucks will be rolled out step-by-step to markets starting in 2026.

**Range depends on external conditions such as weather and wind resistance, as well as factors such as total weight of the truck and the driver's performance.*

Facts:

Volvo FH Aero Electric with extended range

Purpose: Long-haul and intercity transport, up to 700 km distance covered within one day.

Core feature: Compact e-axle integrating two electric motors and six-speed gearbox into the rear axle, freeing up chassis space for more batteries. Up to 460 kW (623 hp) power output. More usable energy onboard and higher charging pace, ideal for hub-to-hub routes and two-shift operations.

Total capacity: Up to 44-tonnes GCW (Gross Combination Weight). Flexible battery configuration to optimise balance between range and payload. Payload up to 28-tonnes.

Range: Up to 700 km on a single charge.*

Charging: 700 kW MCS 20-80% in approximately 50 minutes | 350 kW CCS (Combined Charging System) 20-80% in approximately 85 minutes.

Special capability: Electric power take-off for refrigerated units eliminating the need for a separate diesel generator.

Volvo FH, FM and FMX Electric – next generation

Purpose: On-road construction, regional distribution, urban logistics, utilities, refuse and heavy special applications.

Core feature: New dual-motor drivetrain with purpose-built gearbox with eight gears to maximise electric torque. Up to 540 kW (731 hp) power output.

Flexibility: Built for heavier loads and demanding topography; can be specified with twin-drive axles and low gearing for maximum flexibility.

Total capacity: Up to 65-tonnes GCW (Gross Combination Weight). Flexible battery configuration to optimise balance between range and payload. Payload up to 23.8-tonnes (4x2 tractor).

Range: Up to 470 km on a single charge.*

Charging: 350 kW CCS (Combined Charging Systems) 20-80% in approximately 65 minutes.

Special capability: Multiple configurations with several power take-off solutions – split motors or dual-motor output for cranes, hook lifts or tipper bodies. Truck and body can be operated simultaneously.

Towards fossil-free transport

Volvo Trucks drives the transition towards fossil-free transport to reach its net-zero emissions target by 2040. Using a three-path technology strategy, that is built on battery electric, fuel cell electric and combustion engines that run on renewable fuels like green hydrogen, biogas, biodiesel or HVO (hydrotreated vegetable oil).

V O L V O

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Photograph caption: Volvo Trucks has set a new benchmark for heavy-duty trucks with the launch of its latest electric models with ranges up to 700 km.

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About Volvo Trucks

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 12 countries across the globe. In 2025 approximately 120,000 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.