



Revamped Volvo compact electric machines offer improved runtime

IMAGE SOURCE: Volvo CE

Revamped Volvo compact electric machines offer improved runtime

12 April 2025 by Volvo Construction Equipment

- Volvo CE has updated its compact electric machine lineup, enhancing the ECR25 Electric excavator and L20 Electric wheel loader with new features and improved runtime.
- The ECR25 Electric now offers double the runtime, reduced weight, and improved charging, making it suitable for confined spaces and indoor applications.
- The L20 Electric wheel loader features a 21% increase in standard battery capacity and new attachment options, tires, and HVAC system for enhanced versatility.

- These revamped models will debut at Bauma in Munich, Germany, and will be available in selected European markets starting in Q1 2026.
- Thomas Bitter, Head of the Compact Business Unit at Volvo CE, emphasized the commitment to versatile, zero-emission solutions that meet diverse customer needs and support the transition to electromobility.

Volvo CE (Volvo Construction Equipment) has undertaken a significant update to its compact electric machine lineup, adding a host of new features and options to increase versatility for customers, as well as improving the runtime of its **ECR25 Electric** excavators and **L20 Electric** wheel loaders.

- The new ECR25 Electric now boasts double the runtime, reduced weight, and improved charging compared to the previous generation.
- The L20 Electric wheel loader features increased standard battery capacity, while a host of new features and options, including attachments, tires and air conditioning are available on the new L20 Electric and **L25 Electric** wheel loaders.
- These revamped models will debut at Bauma in Munich, Germany.

Six years after their initial launch at Bauma 2019, Volvo CE is ready to unveil its new generation of compact electric excavators and wheel loaders, starting with the ECR25 Electric, L20 Electric and L25 Electric models – and they are even better than before.

More work hours with ECR25 Electric

The new ECR25 Electric excavator delivers double the runtime of its predecessor, thanks to an upgrade from a 20kWh to a 40kWh lithium-ion battery, providing up to eight hours of runtime for typical applications. Notably, the charging time remains the same despite the larger battery size. The machine's weight has also been reduced. This, coupled with its compact size, makes it easy to transport from job site to job site on a trailer.



Revamped Volvo compact electric machines offer improved runtime

IMAGE SOURCE: Volvo CE

With reduced noise, zero emissions, and a short swing radius, the ECR25 Electric is perfect for confined spaces, indoor applications such as basement groundworks, building demolition, and areas with emissions or noise restrictions.

There are a range of charging options, including the mobile PU40 Power Unit. Two-on board chargers support 3-phase AC grid charging from 10% to 100% in five hours, while a DC fast charger can reach 80% in 1.5 hours. Simplified charging and colored LED indicators enhance the user experience.

Electric loaders designed for versatility

The L20 Electric wheel loader benefits from a 21% increase in standard battery capacity, now matching the larger L25 Electric. A 56kWh battery option offers a 40% capacity boost over the previous generation. Both

the L20 Electric and L25 Electric benefit from simplified charging procedures.



Revamped Volvo compact electric machines offer improved runtime

IMAGE SOURCE: Volvo CE

What is more, these compact wheel loaders come with expanded attachment options, such as hydraulically adjustable loading forks with tine positioning and side shift, as well as a 1.1m³ high tip bucket and a 0.7m³ recycling grapple bucket for specialized applications. There's also a choice of tires, such as the L5 cut/puncture-resistant tires or solid rubber tires for demanding conditions such as recycling, as well as new special low ground pressure tires, ideal for sports fields, golf courses, and agriculture.

Cab improvements include a powerful heating ventilation and air conditioning (HVAC) system, for operator comfort, alongside new safety options like LED works lights on the cab roof, daytime running headlights, orange handrails, and a reversing camera. Zero-emission and near silent, these machines offer 100% parallel

movements, maximum traction and outstanding off-road capability and stability.

Thomas Bitter, Head of the Compact Business Unit at Volvo CE, said: "With our new generation of compact electric machines, we have raised the bar even higher to offer our customers versatile, zero-emission solutions that can work much longer on a single charge. We've listened to our customers and their diverse needs to bring to market robust compact electric solutions that really fulfil their requirements. Moreover, these machines are ideal for inner-city and sensitive environments due to their zero tailpipe emissions of substances like NOx, which are harmful to air quality and human health. With these new compact electric models, Volvo CE is committed to accelerating the transition to electromobility."



Thomas Bitter

IMAGE SOURCE: Volvo CE

The ECR25 Electric will be available in selected markets in Europe, including Germany, France, Great Britain, Norway, Netherlands and Sweden, starting in Q1 2026. The L20 Electric and L25 Electric will also be available in selected markets in Europe. Customers can order the machines later this year, with deliveries expected to begin before the year end.

Source: Volvo CE

EXCAVATORS

LOADERS

MINI EXCAVATORS

WHEEL LOADERS

EXCAVATOR

MINI EXCAVATOR

LOADER

WHEEL LOADER