

P R E S S R E L E A S E

EC500: the next generation of faster, safer and more productive excavators from Volvo Construction Equipment

Today at CONEXPO 2023 in Las Vegas, Volvo Construction Equipment (Volvo CE) unveiled a prototype of its new EC500 crawler excavator.



From Left: Stephen Roy, Martin Lundstedt and Melker Jernberg with the EC500

- Built with operator comfort and safety front of mind, the EC500 features a new and improved operator interface and cabin design.
- In line with Volvo's vision for zero accidents, the excavator is fitted with Volvo Smart View with Obstacle Detection, providing operators with an enhanced real-time view of their surroundings and automatic alerts should obstacles be detected.
- Faster cycle times and improved fuel efficiency help customers to get the job done for less.

Volvo CE provided the first look at a pre-production model of its new EC500 excavator today at the CONEXPO trade show in Las Vegas, North America. This heralds a new generation of excavator, with improvements across cab design and operator interface, safety and productivity.

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A successor to the Volvo EC480E, the EC500 is a new 50-ton crawler excavator for the toughest applications, from building and construction, road construction, utilities, quarrying and aggregates to agriculture and landscaping and is the ideal partner for the Volvo A25G to A35G hauler. It will be available in regulated markets including North America, Europe and Korea.



The EC500 excavator is fitted with Volvo Smart View with Obstacle Detection

Stephen Roy, President of Volvo CE North America, said: “We’re excited to share the first look at our next generation excavator. A pre-production model, there will be some differences to the appearance of the EC500 that will be available to our customers, but it gives an insight into the future, with enhanced safety, operability and productivity.

“At Volvo CE we continue to proactively develop intelligent solutions to improve safety and avoid accidents on the jobsite, so the addition of Volvo Smart View with Obstacle Detection is another important step towards our vision for zero accidents.”



The prototype EC500 unveiled at CONEXPO is a new generation of excavator from Volvo CE

Designed for the operator

The biggest change can be seen in the cabin design and styling, with new layout and features including high-definition co-pilot screen, keyless engine start, wired and wireless smart phone charging and new work mode switch.

A valuable new addition, Volvo Smart View with Obstacle Detection delivers significant safety benefits. Operators enjoy a 360° view thanks to an improved camera system and new radar detection system which provides automatic alerts when the excavator approaches any obstacle, identifying and classifying them as an object or human, and allowing the operator to take remedial action. Three-point access guard rails and a foldable top handrail for transportation are important new safety features.

This next generation of excavator is also set up to access a range of machine options to help operators complete their tasks faster, more easily and more safely, as well as boost their performance and productivity. These include the operator coaching app, [Volvo Dig Assist](#) - a suite of tools designed to help deliver excavator accuracy by eliminating the need to manually mark out a site and check depths and grades - and Volvo Lift Assist, all accessed via the Co-Pilot screen in the cab. Volvo Active Control, an automated grading system and part of the Dig Assist suite of tools, will also be available for the first time on an excavator of this size.

Sejong Ko, Product Manager Excavators at Volvo CE North America, said: "With the EC500 and our next generation of excavators, we are utilizing new technologies to help operators work more productively and with more speed, precision and consistency, to help them get the job done every time."

Faster cycle times and improved fuel efficiency

New electric joysticks give the operator even more control over the hydraulic system. The hydraulic pumps can be operated together as well as virtually disconnected, allowing the operator to control the boom without affecting track speed, delivering safety benefits and a smoother ride for the operator. This also increases controllability, shortens cycle times and improves fuel efficiency – delivering higher productivity and performance.

Comfort Driver Control allows the operator to move forwards, backwards and steer with the joysticks. What's more, each operator can set up their own hydraulic settings based upon their preferences and the application they are working on and save them in Co-Pilot so they can be quickly and easily accessed for future sessions.

Increased uptime and reduced maintenance costs

Increased cooling capacity means the EC500 can handle the most extreme weather conditions and the excavator also benefits from longer service intervals – from 2,000 to 3,000 hours - for the hydraulic oil and filter, bringing both cost savings from reduced maintenance requirements and increased uptime. This means the customers' machines stay out on the job site and work their best for longer and has a positive environmental impact without compromising on performance.

Manufactured at Volvo CE's crawler excavator plant in Changwon, Korea, production of the EC500 will begin in Q4 2023 and the machine will be available in select markets. Further models of this next generation excavator will follow.

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Volvo Construction Equipment (Volvo CE) is a global leader in construction solutions, delivering premium products and services that combine power and performance with a more sustainable way of working. We are a company driven by people and together we have a purpose: To build the world we want to live in. Founded in 1832 and with a distribution network across every major market, our many dedicated experts around the world are fulfilling our shared purpose through a focus on sustainability, electromobility and services. As well as our expanding range of electric machines and charging solutions, Volvo CE provides industry-leading haulers, loaders, excavators and much more, all built to suit the demands of our customers' varied construction and infrastructure needs. Volvo CE benefits from being connected to the Volvo Group, which also offers trucks, buses, power solutions for marine and industrial applications, financing and services that increase our customers' uptime and productivity. Through its holistic perspective, Volvo Group is committed to shaping the future landscape of sustainable transport and infrastructure solutions. For further company information and to explore our values further please visit www.volvoce.com
