



Volvo adds new size class with ECR355E short swing crawler excavator



The newest addition to the Volvo E-Series excavator lineup from Volvo Construction Equipment offers a 10 percent increase in fuel efficiency over its predecessor model and increased digging and lifting forces for high productivity and performance.

The Volvo ECR355E short swing radius excavator brings an entirely new size class to the Volvo excavator lineup — offering power and production in a short swing design capable of working in more confined spaces.

Powered by a 241-horsepower (180 kW) Volvo D8 Tier 4 Final engine that combines high torque and low rpm, the ECR355E delivers an 18 percent increase in horsepower and 28 percent increase in torque over the preceding model it replaces, the Volvo ECR305C.

ECR355E Performance Improvements*

| | | |
|---------------------------|--------------------------------|--|
| +18% Horsepower | +10% Fuel efficiency | +5.7% Tractive force and digging force |
| +28% Torque | +7% Lifting capacity | +44% Cab cooling capacity |

* Versus its predecessor model, the ECR305C



The advanced electro-hydraulic system works with the powerful Volvo engine, resulting in a 10 percent increase in fuel efficiency, reduced emissions and faster, smoother operation.

“The ECR355E fills a need in the market for a powerful 35-ton machine in a short swing design capable of heavy, high-production work in tight areas that would otherwise require a smaller, less productive machine,” said Sejong Ko, excavator product manager at Volvo Construction Equipment. “Packed with optional features for added versatility, as well as all of our E-Series updates, the ECR355E is perfect for everything from heavy infrastructure and utility work to demolition and road building.”

Added options, added versatility

The ECR355E features all the E-Series updates, as well as a range of new options for increased versatility.

- **Demolition packages** – A wide range of factory-fitted guarding options are available, including boom and bucket cylinder guards, heavy-duty side doors, reinforced undercovers, slew ring protection, full track guard and cab-mounted Falling Object Guarding (FOG) packages.
- **Dozer blade and two-piece boom** – An optional dozer blade allows for easy backfilling and additional stability, while the two-piece boom allows for digging closer to the undercarriage with improved visibility and lifting capability in tight spaces.
- **Steelwrist® tiltrotator** – Coming in spring 2018, the ECR355E will be available with the optional Steelwrist tiltrotator, which allows for rotating the attachment 360-degrees and tilting from side to side. The Steelwrist drastically cuts down on repositioning time and increases productivity.
- **New E-Series cab** – The ECR355E is equipped with the new E-Series rectangular cab, adding 10 percent more space, 44 percent more cooling capacity, improved front and side visibility, a wider entrance, radio with hands-free Bluetooth, more ergonomic controls and a reduction in the number of switches from 27 to 11.
- **Standard side-view, optional Smart View** – In addition to the standard rear-view camera, the ECR355E now comes standard with a side-view camera to further reduce blind spots. Coming in spring 2018, the ECR355E will also be available with Volvo Smart View — a feature that combines four exterior-mounted cameras to create a bird’s eye view of the machine, displayed on the 8-inch in-cab monitor. For further visibility, the ECR355E is also available with LED work lights as an upgrade to halogen.

Built to last

The ECR355E is equipped with an X-frame undercarriage built with forged steel top rollers, and rugged boom and arms for sustainable uptime and longevity. Wide-opening compartment doors allow unobstructed ground-level access to essential maintenance points, including pump pressure taps, filters and the cooling package. With logically grouped greasing manifolds and anti-slip plates, operators can get back to work quickly and safely. The reversible cooling fan regulates the temperature of vital components and adjusts automatically according to its cooling demand — reducing fuel consumption and noise.



Fuel-saving features

In addition to enhanced hydraulics that add increased fuel efficiency, the ECR355E is equipped with ECO mode, Auto Idle and Auto Engine Shutdown features, as well integrated work modes that allow the operator to dial in the exact amount of power and controllability for the task at hand. The ECR355E's fuel economy is backed by a Fuel Efficiency Guarantee; if the model's fuel consumption and productivity do not meet model-rated efficiency levels, Volvo will reimburse a portion of the additional fuel.

Support you can count on

The Volvo ECR355E is supported by a range of services and support programs such as the Volvo Lifetime Frame and Structure Warranty which covers the frame, boom and arm for the entirety of the initial period of ownership. The ECR355E is eligible for ActiveCare Direct, the Volvo service that provides 24/7/365 active machine monitoring and fleet utilization reporting directly from Volvo. ActiveCare Direct is free for one year with select new machine purchases, including the ECR355E. Learn more at volvoce.com/ActiveCareDirect.



Key specifications

| Model | ECR355E | |
|---------------------------------------|--------------------|--------------------|
| Engine | D8J | |
| Operating weight | 75,200 – 83,800 lb | 34,100 – 38,000 kg |
| Gross power | 241 hp | 180 kW |
| . . . at engine speed | 1,800 rpm | |
| Bucket capacity | 0.72 - 2.69 y3 | 0.55 - 2.06 m3 |
| Lifting capacity, along undercarriage | 27,490 lb | 12 680 kg |
| . . . at reach / height | 20 / 5 ft | 6.0 / 1.5 M |
| Max. digging reach | 35'3" ft in | 10 741 mm |
| Max. digging depth | 22'4" ft in | 6 818 mm |
| Breakout force, SAE J1179 (Normal) | 37,090 lbf | 165 kN |
| Breakout force, SAE J1179 (Boost) | 40,240 lbf | 179 kN |
| Tear out force, SAE J1179 (Normal) | 29,900 lbf | 133 kN |
| Tear out force, SAE J1179 (Boost) | 32,370 lbf | 144 kN |
| Tail swing radius | 6'3" ft in | 1,900 mm |

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