Volvo Construction Equipment
Building Tomorrow

# EC250E

Volvo Excavators 26.6-31.7 t / 58,620-69,780 lb 225 hp

# WELCOME TO OUR WORLD

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

## Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.


# Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

**Designed for your business**

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

**There when you need us**

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.

BUILDING TOMORROW

# Giving you more

The new and enhanced EC250E is packed with the latest technology to help you move more, for less. Features including the new Volvo engine, improved hydraulics, flow priority functions and optional Dig Assist apps deliver optimum productivity, efficiency and performance for a lower cost per ton.

**More productivity**

Get more done in the EC250E thanks to an increase in engine power and improved hydraulic performance which contributes to faster cycle times. Machine productivity is further enhanced by best-in-class stability, new motion priority functions, boom down speed control and improved jack up speed.


**More precision**

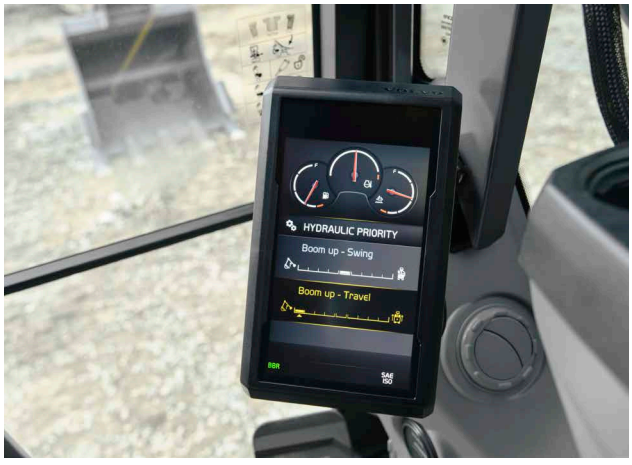
Unlock the full potential of your machine's productivity with Dig Assist, powered by the 10" Volvo Co-Pilot display. Gain access to a set of smart apps, including Start, In-Field Design, 3D software packages, On-Board Weighing and Volvo Active Control, designed to optimize the digging process.

**More control**

Double your productivity with Volvo Active Control functions. The working day just got easier with automated boom and bucket movements, making the digging process more accurate and twice as fast. Simply set the grade from the Volvo Co-Pilot display, push the button and get to work – all controlled using a single lever.

**More responsiveness**

With electric control joystick and full electric travel pedals, operators benefit from an improved response time. Machine controllability is enhanced further by Boom/Swing and Boom/Travel priority functions which enable operators to prioritize one function over another. Operators can also easily adjust the boom down speed, ideal for precision tasks which require optimum control.




# MORE FUEL EFFICIENCY

A range of features combine in the EC250E to deliver up to 10% improvement in fuel efficiency. The new D8M Volvo engine reduces rated rpm from 1800 down to 1600, while also delivering a 5% increase in power, and the intelligent new generation electro-hydraulic system provides on-demand flow and reduces internal losses in the hydraulic circuit. Classic Volvo features such as ECO mode and selectable work modes further contribute to outstanding fuel efficiency.


# SAFETY, INSIDE AND OUT

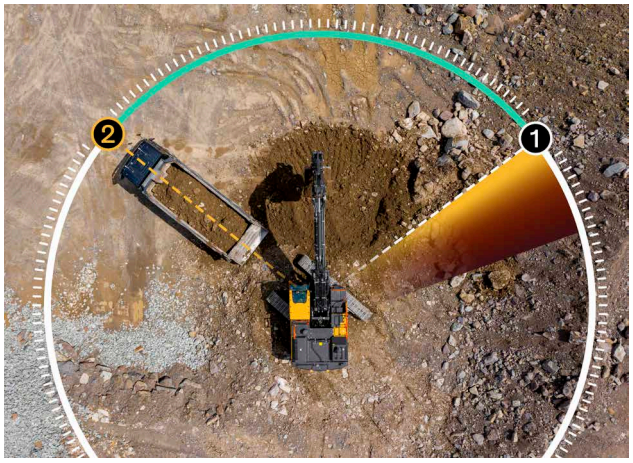
Operators can access the upper structure with safety and confidence thanks to the new 3-point right-hand side access. Industry renowned features such as bolted anti-slip steps, high visibility handrails and spacious, ergonomic and low-noise Volvo Care Cab ensure the highest levels of operator comfort and safety.

# For your comfort and safety

With a host of new and proven features including enhanced machine access, superior visibility, bouncing reduction technology and customizable settings, the upgraded EC250E delivers all the safety and comfort you would expect from your Volvo machine.

### Know your limits

With Volvo Active Control, operators can easily set swing fence, height limit and depth limit from the Volvo Co-Pilot. This helps to avoid contact with side obstacles, overhead obstacles such as power lines and underground hazards such as pipes and cables.

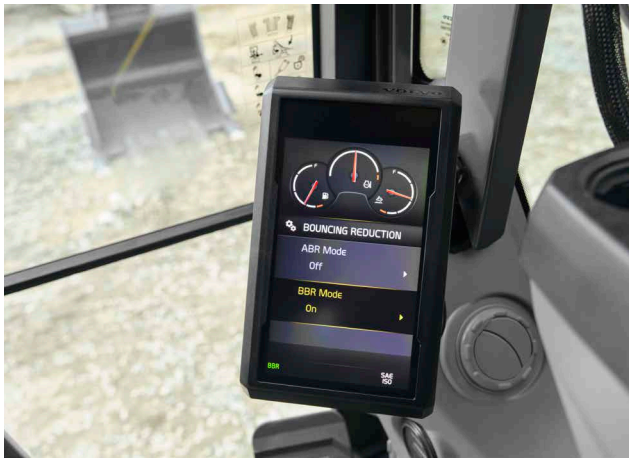



### See it all

Operators can work in complete confidence thanks to Volvo Smart View. The system uses front, rear and side cameras to provide a real-time, overhead view of the machine during operation on the colour monitor. The result is safer machine rotation while working, especially in confined spaces.

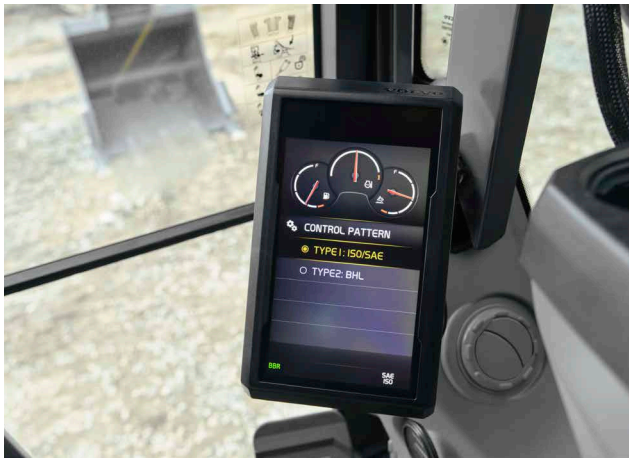
### A smoother shift

New boom and arm bouncing reduction technology reduces machine shock, resulting in a more comfortable and productive operator performance. Comfort Drive Control further helps to reduce fatigue by enabling operators to steer the machine using the joystick rollers instead of the pedals.




### How you like it

Get ready for the working day in no time with customizable settings, including preferred control patterns easily selected from the monitor. New ‘long push’ functionality on the joystick allows operators to set an additional shortcut function, and with the L8 joystick operators can create a shortcut to hydraulic priority functions.

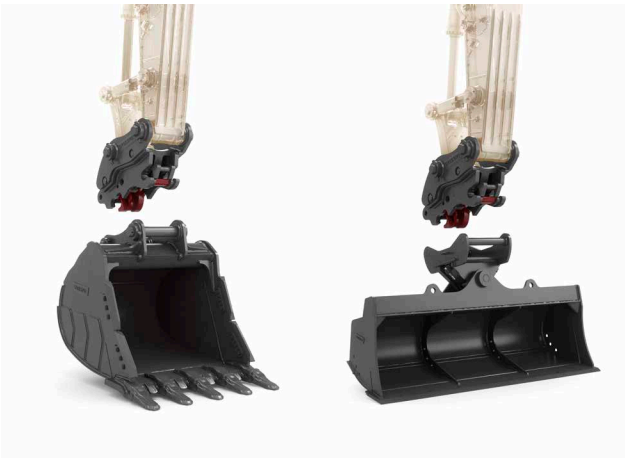


# Boost versatility

Get the most out of your excavator with our range of purpose-built attachments, designed to work in perfect harmony with your machine. Customize your EC250E with quality Volvo attachments, matched to your needs, to form one solid and reliable unit that delivers improved cycle times and increased fuel efficiency.

**Buckets of productivity**

Volvo buckets are the perfect tool to achieve maximum productivity when digging and re-handling in all conditions. Whether you are working with soft, medium or hard materials, our buckets deliver long life and feature original Volvo wear parts. Heavy-Duty variants provide optimum performance when digging in compact materials.

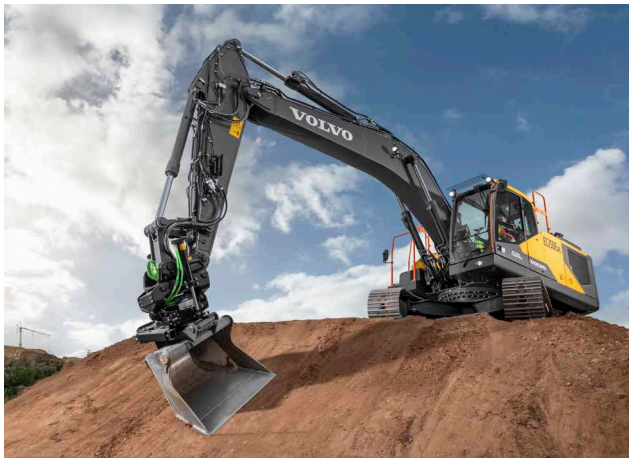


**Take a break**

Available with a full range of tools, the hydraulic breakers are designed to be a perfect match for your Volvo. Powered by the machine's constant auxiliary hydraulic flow, the breakers are configured to the specific weights of Volvo machines and are fully compatible with Volvo quick couplers for swift, safe and simple attachment changes.

**Dig at any angle**

Boost productivity and dig at any angle. Compatibility with Steelwrist®, Engcon® and Rototilt® tiltrotators provides the flexibility needed for precise construction jobs. The factory-fitted tiltrotator preparation system gives you the power to control both the excavator and tiltrotator using the original joysticks, with the information presented on the main display.




**Stay cool**

A new cooling layout increases hydraulic attachment cooling capacity by 10%, resulting in an improved attachment performance.


Steelwrist® : Steelwrist is a registered trademark of Steelwrist AB / Engcon® : Engcon is a registered trademark of Engcon Holding AB / Rototilt® : Rototilt is a registered trademark of Rototilt Group AB


# EASY TO ATTACH

Discover our range of Volvo quick couplers, including the new Steelwrist® Auto Connect Quick Coupler – enabling the quick and easy connection of hydraulic attachments from the comfort and safety of the cab. The quick coupler delivers 300 liters (79 gallons) per minute of hydraulic flow directly to the attachment.


# POWERED BY EXCELLENCE

With impressively high torque at low rpm, the new D8M Volvo engine builds on generations of proven Volvo engine technology to deliver superior reliability and performance. The engine features auto-regeneration technology, while auto-engine idle and auto-engine shutdown reduce unnecessary fuel consumption and wear.

# Lower maintenance costs

Durable by design, the new EC250E is ready to take on the toughest applications. The machine delivers outstanding levels of reliability and with features including engine auto-regeneration, reinforced components and reduced maintenance requirements, you can count on the EC250E to maximize uptime while keeping maintenance costs to a minimum.

**Less service requirements**

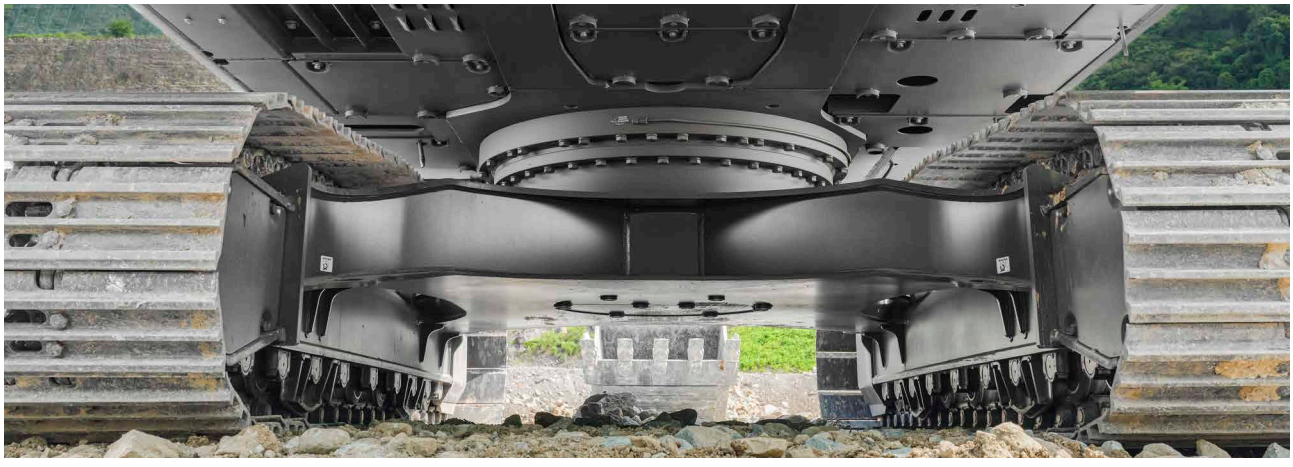
The new electro-hydraulic system requires less hoses, therefore reducing the need for couplings, minimizing maintenance requirements and increasing reliability. Engine oil and engine oil filter change intervals have been doubled to 1000 hours, further ensuring the time and cost spent on maintenance is kept to a minimum.

**Easier DEF filling**

The new splash guard on the DEF tank makes filling quicker and easier, while also reducing the risk of spillage and subsequent corrosion.

**Up to the challenge**

Built to deliver outstanding strength and durability, this heavy-duty production machine features a robust undercarriage with reinforced idle frame, track links and bottom rollers. Reinforced bucket linkage with steel strip, optional heavy-duty superstructure undercover and easily replaced bolt-on wear plates at the arm end ensure the excavator succeeds even on the toughest of jobsites.



# Boost your profits

A world-class machine is just the start of how Volvo strives to add value you to your operation. Our portfolio of services is designed to complement your machine's performance and boost your profitability.

### Every part counts

Maintain productivity and machine uptime with our range of readily available, tested and approved parts – all backed by Volvo warranty. Only by using Genuine Volvo Parts, can you protect your investment, extend machine life and guarantee long-lasting performance.


### Maintain performance

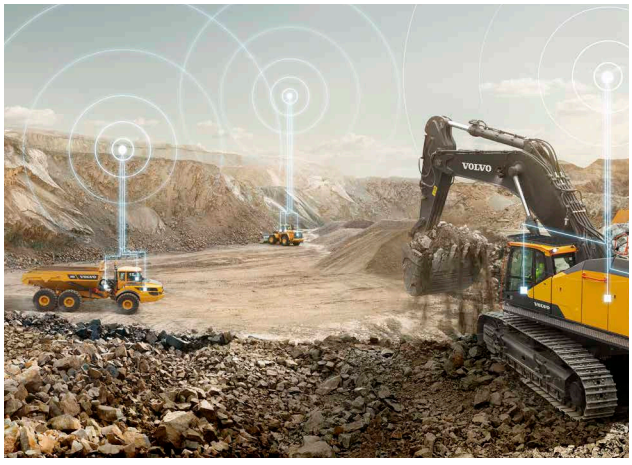
Stay on track with planned servicing and keep your asset covered with our range of flexible maintenance and repair options.


### Powerful reporting

Keep track of your fleet with a comprehensive portfolio of reports, designed to help you take action and boost the profitability of your business. Powered by the CareTrack telematics system, Productivity Report, Fuel Efficiency Report & Summary Report each provide an easy-to-digest overview of your machine's condition and performance.


### Machine monitoring made easy

Maximize machine uptime and reduce repair costs with the CareTrack telematic system. Choose to keep track of your machine yourself or let us take care of it with ActiveCare Direct. Our Volvo Uptime Center will provide 24/7 machine monitoring, supplying weekly reports and notifying you should preventive maintenance action be required.




# GET THE MOST FROM YOUR MACHINE

While reliable and efficient machines of course play a vital role in reducing costs, enhancing safety and maximizing productivity, it is ultimately the performance of the operator that really makes the difference. We offer a wide range of training initiatives to help operators unlock the full capability of their Volvo excavator.

# Move more for less

**Boost versatility**

- Steelwrist® Auto Connect Quick Coupler **NEW**
- Factory-fitted preparation for Steelwrist®, Engcon®, Rototilt® tiltrotator control systems **NEW**
- 10% more hydraulic attachment cooling capacity **NEW**
- Range of matched Volvo buckets and breakers
- Attachment Management System: 32 attachments stored

## BOOST YOUR PRODUCTIVITY

- Best-in-class stability
- Improved response time **NEW**
- Boom/Swing and Boom/Travel priority **NEW**
- Adjustable boom down speed **NEW**
- Dig Assist apps, powered by Volvo Co-Pilot
- Volvo Active Control: double your productivity


## UP TO 10% BETTER FUEL EFFICIENCY

- Volvo D8M engine **NEW**
- New generation electro-hydraulic system **NEW**
- ECO mode
- Selectable work modes
- Boom float function
- Auto-engine idle and shutdown

## LOWER MAINTENANCE COSTS

- Less hydraulic hoses: reduced need for couplings/oil **NEW**
- Splash guard on the DEF tank **NEW**
- 1000hr engine oil and engine oil filter change intervals **NEW**
- Engine auto-regeneration **NEW**
- Grouped filters, accessed from ground-level
- Reinforced idle frame, track links, bottom rollers


## SAFETY, INSIDE AND OUT

- 3-point right-hand side access to the upper structure **NEW**
- Bolted anti-slip steps, high visibility handrails
- ROPS cab, low-noise/vibration
- Rear and side cameras, Volvo Smart View
- Swing fence, height/depth limits functions (Volvo Active Control)

## COMFORTABLE OPERATION

- Boom and arm bouncing reduction **NEW**
- Comfort Drive Control: joysticks steering **NEW**
- Additional 'long push' shortcut button **NEW**
- Selectable control pattern
- Volvo Care Cab: highest levels of comfort

**Volvo Services: boost your profits**

- Operator training program
- Productivity Report, Fuel Efficiency Report, Summary Report
- ActiveCare Direct: 24/7 machine monitoring
- Genuine Volvo Parts, with 24-hour delivery guarantee
- Maintenance and repair agreements

# Volvo EC250E in detail

## Engine

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions, superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and intercooler, and electronic engine controls to optimize machine performance.

| | | |
|---|---|---|
| Engine | Volvo | D8M |
| Max power at | r/min (r/s) | 1,600 (26.7) |
| Net, ISO 9249/SAE J1349 | kW (hp) | 167 (224) |
| Gross, ISO 14396/SAE J1995 | kW (hp) | 168 (225) |
| Max torque | Nm (ft lbf) | 1,166 (860) |
| at engine speed | r/min (r/s) | 1,350 (22.5) |
| No. of cylinders | | 6 |
| Displacement | l (in³) | 7.7 (470) |
| Bore | mm (in) | 110 (4.33) |
| Stroke | mm (in) | 135 (5.3) |

## Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

| | | |
|---|---|---|
| Voltage | V | 24 |
| Batteries | V | 2 x 12 |
| Battery capacity | Ah | 170 |
| Alternator | V/A | 28 / 80 |
| Start motor | V - kW | 24 - 5.5 |

## Undercarriage

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

| | | |
|---|---|---|
| Track shoes | | 2 x 51 |
| Link pitch | mm (in) | 190 (7.5) |
| Shoe width | mm (in) | 600 / 700 / 800 / 900 (23.6 / 27.6 / 31.5 / 35.4) |
| Shoe width, triple grouser | mm (in) | 600 / 700 / 800 / 900 (23.6 / 27.6 / 31.5 / 35.4) |
| Shoe width, triple grouser (HD) | mm (in) | 600 (23.6) |
| Shoe width, double grouser | mm (in) | 600 / 700 (23.6 / 27.6) |
| Bottom rollers | | 2 x 9 |
| Top rollers | | 2 x 2 |

## Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and anti-rebound valve are standard.

| | | |
|---|---|---|
| Max. slew speed | r/min | 11.7 |
| Max. slew torque | kNm (ft lbf) | 91.7 (67,634) |

## Travel System

Each track is powered by an automatic two-speed shift travel motor. The track brakes are multi-disc, spring-applied and hydraulic released. The travel motor, brake and planetary gears are well protected within the track frame.

| | | |
|---|---|---|
| Max. drawbar pull | kN (lbf) | 217 (48,784) |
| Max. travel speed (low) | km/h (mi/h) | 3.5 (2.2) |
| Max. travel speed (high) | km/h (mi/h) | 5.5 (3.4) |
| Gradeability | ° | 35 |

## Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.
Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq.

## Hydraulic system

The hydraulic system, also known as the "Automatic Sensing Work Mode," is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm and swing priority along with boom, arm and bucket regeneration provides optimum performance.

| | | |
|---|---|---|
| **Main pump, Type 2 x Variable displacement axial piston pumps** | | |
| Maximum flow | l/min (gal/min) | 2 x 240 (2 x 63.4) |
| **Pilot pump, Type Gear Pump** | | |
| Maximum flow | l/min (gal/min) | 20.3 (5.4) |
| **Relief value setting pressure** | | |
| Implement | MPa (psi) | 33.3 / 36.3 (4,830 / 5,265) |
| Travel circuit | MPa (psi) | 36.3 (5,265) |
| Slew circuit | MPa (psi) | 27.9 (4,047) |
| Pilot circuit | MPa (psi) | 3.9 (566) |

## Hydraulic Motors

**Travel:** Variable displacement axial piston motor with mechanical brake
**Swing:** Fixed displacement piston motor with mechanical brake

## Hydraulic Cylinders

| | | |
|---|---|---|
| Mono boom | | 2 |
| Bore x Stroke | ø x mm (ø x in) | 135 x 1 345 (5.3 x 53) |
| 2 piece boom | | 2 |
| Bore x Stroke | ø x mm (ø x in) | 160 x 1 230 (6.8 x 48.4) |
| Arm | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 140 x 1 665 (5.5 x 65.6) |
| Bucket | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 130 x 1 150 (5.1 x 45.3) |
| Bucket for LR boom | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 100 x 865 (3.9 x 34.1) |

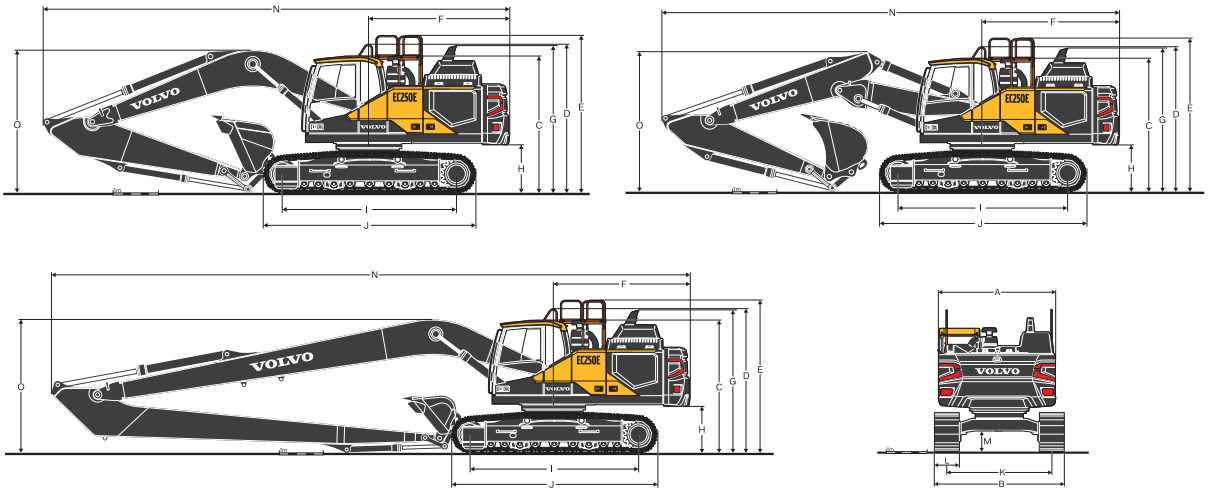
## Service Refill

| | | |
|---|---|---|
| Fuel tank | l (gal) | 472 (124.7) |
| DEF/AdBlue® tank | l (gal) | 50 (13) |
| Hydraulic system, total | l (gal) | 385 (101.7) |
| Hydraulic tank | l (gal) | 215 (56.8) |
| Engine oil | l (gal) | 30 (7.9) |
| Engine coolant | l (gal) | 44 (12) |
| Slew reduction unit | l (gal) | 5.9 (1.6) |
| Travel reduction unit | l (gal) | 2 x 5 (2 x 1.3) |

## Sound Level

| | | |
|---|---|---|
| Sound pressure level in cab according to ISO 6396 | | |
| $L_{pA}$ | dB | 70 |
| External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC | | |
| $L_{WA}$ | dB | 104 |

# Specifications




| Description | Unit | | EC250EL | | | | | | | | | | | | EC250ELR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boom | m, ft in | | 6.0, 19'8" | | | | | | 5.95, 19'6" 2-piece | | | | | | 10.2, 33'6" | |
| Arm | m | ft in | 2.5 | 8'2" | 2.97 | 9'9" | 3.6 | 11'10" | 2.5 | 8'2" | 2.97 | 9'9" | 3.6 | 11'10" | 7.85 | 25'9" |
| A. Overall width of upper structure | mm | ft in | 2,890 | 9'6" | 2,890 | 9'6" | 2,890 | 9'6" | 2,890 | 9'6" | 2,890 | 9'6" | 2,890 | 9'6" | 2,890 | 9'6" |
| B. Overall width | mm | ft in | 3,190 | 10'6" | 3,190 | 10'6" | 3,190 | 10'6" | 3,190 | 10'6" | 3,190 | 10'6" | 3,190 | 10'6" | 3,190 | 10'6" |
| C. Overall height of cab | mm | ft in | 3,045 | 9'12" | 3,045 | 9'12" | 3,045 | 9'12" | 3,045 | 9'12" | 3,045 | 9'12" | 3,045 | 9'12" | 3,045 | 9'12" |
| D. Overall height of handrail | mm | ft in | 3,310 | 10'10" | 3,310 | 10'10" | 3,310 | 10'10" | 3,310 | 10'10" | 3,310 | 10'10" | 3,310 | 10'10" | 3,310 | 10'10" |
| E. Overall height of guardrail (Unfolded) | mm | ft in | 3,515 | 11'6" | 3,515 | 11'6" | 3,515 | 11'6" | 3,515 | 11'6" | 3,515 | 11'6" | 3,515 | 11'6" | 3,515 | 11'6" |
| E'. Overall height of handrail/ guardrail (Folded) | mm | ft in | 3,035 | 9'11" | 3,035 | 9'11" | 3,035 | 9'11" | 3,035 | 9'11" | 3,035 | 9'11" | 3,035 | 9'11" | 3,035 | 9'11" |
| F. Tail swing radius | mm | ft in | 3,075 | 10'1" | 3,075 | 10'1" | 3,075 | 10'1" | 3,075 | 10'1" | 3,075 | 10'1" | 3,075 | 10'1" | 3,155 | 10'4" |
| G. Overall height of diffuser | mm | ft in | 3,135 | 10'3" | 3,135 | 10'3" | 3,135 | 10'3" | 3,135 | 10'3" | 3,135 | 10'3" | 3,135 | 10'3" | 3,135 | 10'3" |
| H. Counterweight clearance * | mm | ft in | 1,045 | 3'5" | 1,045 | 3'5" | 1,045 | 3'5" | 1,045 | 3'5" | 1,045 | 3'5" | 1,045 | 3'5" | 1,045 | 3'5" |
| I. Tumbler length | mm | ft in | 3,850 | 12'8" | 3,850 | 12'8" | 3,850 | 12'8" | 3,850 | 12'8" | 3,850 | 12'8" | 3,850 | 12'8" | 3,850 | 12'8" |
| J. Track length | mm | ft in | 4,650 | 15'3" | 4,650 | 15'3" | 4,650 | 15'3" | 4,650 | 15'3" | 4,650 | 15'3" | 4,650 | 15'3" | 4,650 | 15'3" |
| K. Track gauge | mm | ft in | 2,590 | 8'6" | 2,590 | 8'6" | 2,590 | 8'6" | 2,590 | 8'6" | 2,590 | 8'6" | 2,590 | 8'6" | 2,590 | 8'6" |
| L. Shoe width | mm | ft in | 600 | 24" | 600 | 24" | 600 | 24" | 600 | 24" | 600 | 24" | 600 | 24" | 600 | 24" |
| M. Min. ground clearance * | mm | ft in | 470 | 1'7" | 470 | 1'7" | 470 | 1'7" | 470 | 1'7" | 470 | 1'7" | 470 | 1'7" | 470 | 1'7" |
| N. Overall length | mm | ft in | 10,310 | 33'10" | 10,230 | 33'7" | 10,300 | 33'10" | 10,260 | 33'8" | 10,225 | 33'7" | 10,230 | 33'7" | 14,520 | 47'8" |
| O. Overall height of boom | mm | ft in | 3,330 | 10'11" | 3,110 | 10'2" | 3,330 | 10'11" | 3,265 | 10'9" | 3,185 | 10'5" | 3,405 | 11'2" | 3,080 | 10'1" |

* Without shoe grouser

' 2-piece boom

**DIMENSIONS**

**Boom**

| Description | Unit | | mono | | | | 2-piece | | Long-Reach | |
|---|---|---|---|---|---|---|---|---|---|---|
| Boom | m, ft in | | 6.0, 19'8" GP | | 6.0, 19'8" HD | | 5.95, 19'6" | | 10.2, 33'6" | |
| Length | mm | ft in | 6,220 | 20'5" | 6,220 | 20'5" | 6,170 | 20'3" | 10,420 | 34'2" |
| Height | mm | ft in | 1,750 | 5'9" | 1,750 | 5'9" | 1,510 | 4'11" | 1,525 | 5'0" |
| Width | mm | ft in | 725 | 2'5" | 725 | 2'5" | 725 | 2'5" | 725 | 2'5" |
| Weight | kg | lb | 2,230 | 4,920 | 2,355 | 5,190 | 2,835 | 6,250 | 3,025 | 6,670 |

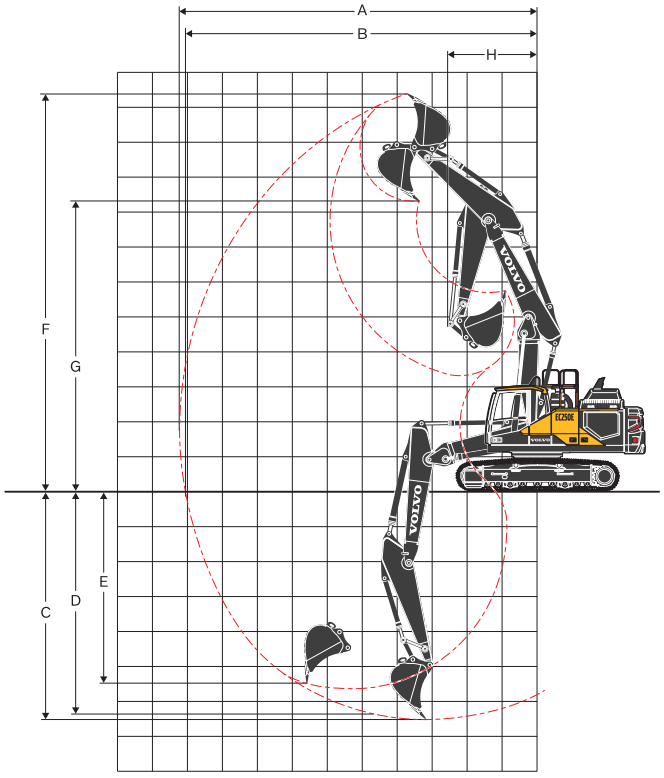
* Includes cylinder, piping and pin, excludes boom cylinder pin

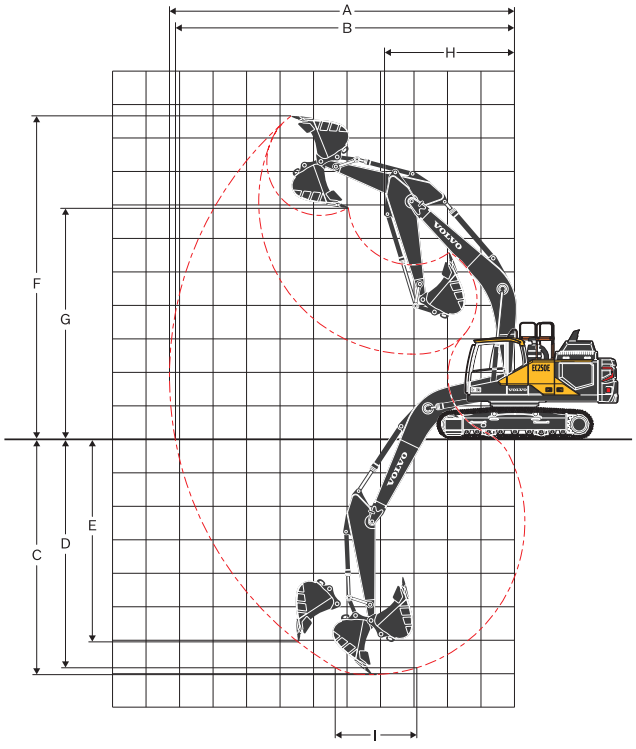
**Arm**

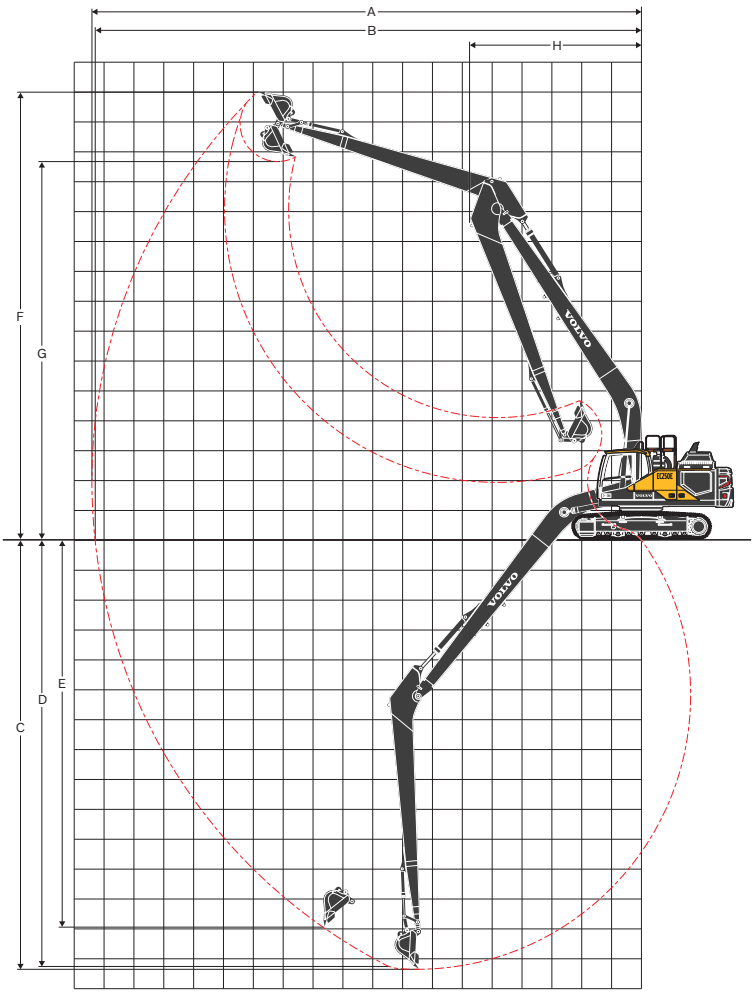
| Description | Unit | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arm | m | | 2.5, 8'2" HD | | 2.97, 9'9" GP | | 2.97, 9'9" HD | | 3.6, 11'10" GP | | 7.85, 25'9" LR | |
| Length | mm | ft in | 3,580 | 11'9" | 4,050 | 13'3" | 4,050 | 13'3" | 4,715 | 15'6" | 8,960 | 29'5" |
| Height | mm | ft in | 995 | 3'3" | 995 | 3'3" | 995 | 3'3" | 1,000 | 3'3" | 1,190 | 3'11" |
| Width | mm | ft in | 510 | 1'8" | 510 | 1'8" | 510 | 1'8" | 510 | 1'8" | 385 | 1'3" |
| Weight | kg | lb | 1,210 | 2,670 | 1,245 | 2,750 | 1,300 | 2,870 | 1,335 | 2,940 | 1,630 | 3,590 |

* Includes cylinder, linkage and pin

# Specifications






**WORKING RANGES**

| Description | | | Unit | | EC250EL | | | | | | | | | | | | EC250ELR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boom | | | m, ft in | | 6.0, 19'8" | | | | | | 5.95, 19'6" 2-piece | | | | | | 10.2, 33'6" | |
| Arm | | | m | ft in | 2.5 | 8'2" | 2.97 | 9'9" | 3.6 | 11'10" | 2.5 | 8'2" | 2.97 | 9'9" | 3.6 | 11'10" | 7.85 | 25'9" |
| A. Max. digging reach | | | mm | ft in | 9,960 | 32'8" | 10,340 | 33'11" | 10,810 | 35'6" | 9,970 | 32'9" | 10,365 | 34'0" | 10,855 | 35'7" | 18,305 | 60'1" |
| B. Max. digging reach on ground | | | mm | ft in | 9,775 | 32'1" | 10,160 | 33'4" | 10,640 | 34'11" | 9,785 | 32'1" | 10,190 | 33'5" | 10,685 | 35'1" | 18,210 | 59'9" |
| C. Max. digging depth | | | mm | ft in | 6,590 | 21'7" | 7,060 | 23'2" | 7,690 | 25'3" | 6,125 | 20'1" | 6,565 | 21'6" | 7,135 | 23'5" | 14,350 | 47'1" |
| D. Max.digging depth (I = 2.44 m / 8'0" level) | | | mm | ft in | 6,375 | 20'11" | 6,855 | 22'6" | 7,470 | 24'6" | 6,020 | 19'9" | 6,465 | 21'3" | 7,040 | 23'1" | 14,240 | 46'9" |
| E. Max. vertical wall digging depth | | | mm | ft in | 5,265 | 17'3" | 5,520 | 18'1" | 5,805 | 19'1" | 4,910 | 16'1" | 5,290 | 17'4" | 5,765 | 18'11" | 12,470 | 40'11" |
| F. Max. cutting height | | | mm | ft in | 9,620 | 31'7" | 9,685 | 31'9" | 9,645 | 31'8" | 11,140 | 36'7" | 11,390 | 37'4" | 11,625 | 38'2" | 14,890 | 48'10" |
| G. Max. dumping height | | | mm | ft in | 6,610 | 21'8" | 6,710 | 22'0" | 6,730 | 22'1" | 7,925 | 26'0" | 8,190 | 26'10" | 8,445 | 27'8" | 12,580 | 41'3" |
| H. Min. front swing radius | | | mm | ft in | 3,915 | 12'10" | 3,890 | 12'9" | 3 890 | 12'9" | 2,785 | 9'2" | 2,550 | 8'4" | 2,715 | 8'11" | 5,720 | 18'9" |
| **DIGGING FORCES WITH DIRECT FIT BUCKET** | | | | | | | | | | | | | | | | | | |
| Bucket radius | | | mm | in | 1,620 | 64" | 1,620 | 64" | 1,620 | 64" | 1,620 | 64" | 1,620 | 64" | 1,620 | 64" | 1,248 | 49" |
| Breakout force | Normal | SAE J1179 | kN | lb | 145 | 32,490 | 145 | 32,510 | 145 | 32,500 | 145 | 32,490 | 145 | 32,510 | 145 | 32,500 | 68 | 15,300 |
| | Power boost | | kN | lb | 157 | 35,350 | 157 | 35,370 | 157 | 35,370 | 157 | 35,350 | 157 | 35,370 | 157 | 35,370 | 68 | 15,300 |
| | Normal | ISO 6015 | kN | lb | 166 | 37,390 | 166 | 37,410 | 166 | 37,400 | 166 | 37,390 | 166 | 37,410 | 166 | 37,400 | 77 | 17,290 |
| | Power boost | | kN | lb | 181 | 40,690 | 181 | 40,710 | 181 | 40,710 | 181 | 40,690 | 181 | 40,710 | 181 | 40,710 | 77 | 17,290 |
| Tearout force | Normal | SAE J1179 | kN | lb | 132 | 29,620 | 114 | 25,650 | 102 | 22,960 | 132 | 29,620 | 114 | 25,650 | 102 | 22,960 | 43 | 9,620 |
| | Power boost | | kN | lb | 143 | 32,240 | 124 | 27,910 | 111 | 24,980 | 143 | 32,240 | 124 | 27,910 | 111 | 24,980 | 43 | 9,620 |
| | Normal | ISO 6015 | kN | lb | 136 | 30,650 | 118 | 26,410 | 105 | 23,530 | 136 | 30,650 | 118 | 26,410 | 105 | 23,530 | 43 | 9,720 |
| | Power boost | | kN | lb | 148 | 33,360 | 128 | 28,740 | 114 | 25,610 | 148 | 33,360 | 128 | 28,740 | 114 | 25,610 | 43 | 9,720 |
| Rotation angle, bucket | | | ° | | 177 | | 177 | | 177 | | 177 | | 177 | | 177 | | 178 | |

# Specifications

**MACHINE WEIGHTS AND GROUND PRESSURE**

| Description | Shoe width | | Operating weight | | Ground pressure | | Overall width | |
|---|---|---|---|---|---|---|---|---|
| | mm | in | kg | lb | kPa | psi | mm | in |
| **EC250EL** | | | | | | | | |
| | | | **6.0 m (19'8") boom (GP), 2.97 m (9'9") arm (GP), 1,200 kg (2,650 lb) / 1.14 m³ (301 gal) bucket, 4,950 kg (10,910 lb) counterweight** | | | | | |
| Triple grouser | 600 | 24 | 26,830 | 59,160 | 53.0 | 7.7 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 27,070 | 59,690 | 53.5 | 7.7 | 3,190 | 10'6" |
| | 700 | 28 | 27,130 | 59,820 | 45.9 | 6.7 | 3,290 | 10'10" |
| | 800 | 31 | 27,420 | 60,460 | 40.6 | 5.9 | 3,390 | 11'1" |
| | 900 | 35 | 27,730 | 61,140 | 36.5 | 5.3 | 3,490 | 11'5" |
| Double grouser | 600 | 24 | 27,050 | 59,650 | 53.4 | 7.7 | 3,190 | 10'6" |
| | 700 | 28 | 27,390 | 60,390 | 46.4 | 6.7 | 3,290 | 10'10" |
| | | | **6.0 m (19'8") boom (HD), 2.97 m (9'9") arm (HD), 1,200 kg (2,650 lb) / 1.14 m³ (301 gal) bucket, 4,950 kg (10,910 lb) counterweight** | | | | | |
| Triple grouser | 600 | 24 | 27,010 | 59,560 | 53.4 | 7.7 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 27,250 | 60,090 | 53.8 | 7.8 | 3,190 | 10'6" |
| | 700 | 28 | 27,310 | 60,220 | 46.2 | 6.7 | 3,290 | 10'10" |
| | 800 | 31 | 27,600 | 60,860 | 40.9 | 5.9 | 3,390 | 11'1" |
| | 900 | 35 | 27,910 | 61,540 | 36.8 | 5.3 | 3,490 | 11'5" |
| Double grouser | 600 | 24 | 27,230 | 60,040 | 53.8 | 7.8 | 3,190 | 10'6" |
| | 700 | 28 | 27,570 | 60,790 | 46.7 | 6.8 | 3,290 | 10'10" |
| | | | **5.95 m (19'6") boom (2-piece), 2.97 m (9'9") arm (GP), 1,200 kg (2,650 lb) / 1.14 m³ (301 gal) bucket, 4,950 kg (10,910 lb) counterweight** | | | | | |
| Triple grouser | 600 | 24 | 27,440 | 60,510 | 54.2 | 7.9 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 27,680 | 61,030 | 54.7 | 7.9 | 3,190 | 10'6" |
| | 700 | 28 | 27,740 | 61,170 | 47.0 | 6.8 | 3,290 | 10'10" |
| | 800 | 31 | 28,030 | 61,810 | 41.5 | 6.0 | 3,390 | 11'1" |
| | 900 | 35 | 28,340 | 62,490 | 37.3 | 5.4 | 3,490 | 11'5" |
| Double grouser | 600 | 24 | 27,660 | 60,990 | 54.6 | 7.9 | 3,190 | 10'6" |
| | 700 | 28 | 28,000 | 61,740 | 47.4 | 6.9 | 3,290 | 10'10" |
| | | | **5.95 m (19'6") boom (2-piece), 2.97 m (9'9") arm (HD), 1,200 kg (2,650 lb) / 1.14 m³ (301 gal) bucket, 4,950 kg (10,910 lb) counterweight** | | | | | |
| Triple grouser | 600 | 24 | 27,490 | 60,620 | 54.3 | 7.9 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 27,730 | 61,140 | 54.8 | 7.9 | 3,190 | 10'6" |
| | 700 | 28 | 27,790 | 61,280 | 47.1 | 6.8 | 3,290 | 10'10" |
| | 800 | 31 | 28,080 | 61,920 | 41.6 | 6.0 | 3,390 | 11'1" |
| | 900 | 35 | 28,390 | 62,600 | 37.4 | 5.4 | 3,490 | 11'5" |
| Double grouser | 600 | 24 | 27,710 | 61,100 | 54.7 | 7.9 | 3,190 | 10'6" |
| | 700 | 28 | 28,050 | 61,850 | 47.5 | 6.9 | 3,290 | 10'10" |
| **EC250ELR** | | | | | | | | |
| | | | **10.2 m (33'6") boom (LR), 7.85 m (25'9") arm (LR), 452 kg (1,000 lb) / 0.52 m³ (137 gal) bucket, 6,200 kg (13,670 lb) counterweight** | | | | | |
| Triple grouser | 600 | 24 | 28,570 | 63,000 | 57.6 | 8.2 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 28,810 | 64,300 | 56.9 | 6.3 | 3,190 | 10'6" |
| | 800 | 31 | 29,160 | 64,980 | 44.1 | 5.6 | 3,390 | 11'1" |
| | 900 | 35 | 29,470 | 63,530 | 39.6 | 8.2 | 3,490 | 11'5" |

**BUCKET SELECTION GUIDE**

| Bucket type | | Capacity | | Cutting width | | Weight | | Teeth | EC250EL 600 mm (24") shoe, 4,950 kg (10,910 lb) counterweight | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 6.0 m (19'8") GP Boom | | | 5.95 m (19'6") 2-piece Boom | | |
| | | L | yd³ | mm | in | kg | lb | EA | 2.5 m (8'2") | 2.97 m (9'9") | 3.6 m (11'10") | 2.5 m (8'2") | 2.97 m (9'9") | 3.6 m (11'10") |
| Direct fit bucket | General purpose | 560 | 0.73 | 600 | 23.6 | 800 | 1,763 | 3 | C | C | C | C | C | C |
| | | 620 | 0.81 | 750 | 29.5 | 823 | 1,814 | 3 | C | C | C | C | C | C |
| | | 770 | 1.01 | 900 | 35.4 | 983 | 2,167 | 4 | C | C | C | C | C | C |
| | | 950 | 1.24 | 1090 | 42.9 | 1012 | 2,231 | 4 | C | C | C | C | C | C |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,179 | 2,600 | 5 | C | C | C | C | C | C |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,196 | 2,636 | 5 | C | C | C | C | C | C |
| | | 1,450 | 1.90 | 1,490 | 58.7 | 1,249 | 2,754 | 5 | C | C | C | C | C | C |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,294 | 2,854 | 5 | C | C | C | C | C | C |
| | | 1,760 | 2.30 | 1,740 | 68.5 | 1,435 | 3,163 | 6 | C | B | B | C | B | A |
| | Heavy duty | 560 | 0.73 | 600 | 23.6 | 870 | 1,917 | 3 | D | D | D | D | D | D |
| | | 620 | 0.81 | 750 | 29.5 | 880 | 1,941 | 3 | D | D | D | D | D | D |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,200 | 2,646 | 5 | D | D | D | D | D | D |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,289 | 2,843 | 5 | D | D | D | D | D | D |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,377 | 3,035 | 5 | D | D | C | D | D | B |
| | | 1,760 | 2.30 | 1,740 | 68.5 | 1,533 | 3,380 | 6 | C | B | A | B | B | A |
| Direct fit bucket (UQC interface) | General purpose | 560 | 0.73 | 600 | 23.6 | 800 | 1,763 | 3 | C | C | C | C | C | C |
| | | 620 | 0.81 | 750 | 29.5 | 823 | 1,814 | 3 | C | C | C | C | C | C |
| | | 770 | 1.01 | 900 | 35.4 | 983 | 2,167 | 4 | C | C | C | C | C | C |
| | | 950 | 1.24 | 1090 | 42.9 | 1012 | 2,231 | 4 | C | C | C | C | C | C |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,179 | 2,600 | 5 | C | C | C | C | C | C |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,196 | 2,636 | 5 | C | C | C | C | C | B |
| | | 1,450 | 1.90 | 1,490 | 58.7 | 1,249 | 2,754 | 5 | C | C | B | C | B | B |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,294 | 2,854 | 5 | C | B | A | C | B | A |
| | | 1,760 | 2.30 | 1,740 | 68.5 | 1,435 | 3,163 | 6 | B | A | x | B | A | x |
| | Heavy duty | 560 | 0.73 | 600 | 23.6 | 870 | 1,917 | 3 | D | D | D | D | D | D |
| | | 620 | 0.81 | 750 | 29.5 | 880 | 1,941 | 3 | D | D | D | D | D | D |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,200 | 2,646 | 5 | D | D | D | D | D | C |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,289 | 2,843 | 5 | D | C | B | D | C | B |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,377 | 3,035 | 5 | C | B | A | C | B | A |
| | | 1,760 | 2.30 | 1,740 | 68.5 | 1,533 | 3,380 | 6 | B | A | x | A | A | x |

For long reach boom and arm configuration, Volvo recommends to use 0.52 m³ (0.68 yd³) bucket
Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.
The recommendations are given as a guide only, based on typical operation conditions.
Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

**Maximum materal density**

| | kg/m³ | lb/yd³ | |
|---|---|---|---|
| A | 1,200~1,300 | 2,000~2,200 | Coal, Caliche, Shale |
| B | 1,400~1,600 | 2,300~2,700 | Wet earth and clay, Limestone, Sandstone |
| C | 1,700~1,800 | 2,800~3,100 | Granite, Wet sand, Well blasted rock |
| D | > 1,900 | > 3,200 | Wet mud, Iron ore |
| X | Not recommended | | |

# Specifications

**LIFTING CAPACITY EC250EL**

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

| | Lifting Point | | 1.5 m, 5 ft | | 3.0 m, 10 ft | | 4.5 m, 15 ft | | 6.0 m, 20 ft | | 7.5 m, 25 ft | | 9.0 m, 30 ft | | Max. Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Max. |
| Boom : 6.0 m, 19'8" Arm : 2.5m, 8'2" Shoe : 600 mm, 24" CWT : 4,950 kg, 10,910 lb | 7.5 m | kg | | | | | | | *6,890 | *6,890 | | | | | *6,940 | *6,940 | 6.10 m |
| | 25 ft | lb | | | | | | | | | | | | | *15,010 | *15,010 | 19.69 ft |
| | 6.0 m | kg | | | | | | | *6,900 | *6,900 | | | | | *6,930 | 5,540 | 7.22 m |
| | 20 ft | lb | | | | | | | *14,800 | *14,800 | | | | | *14,970 | 11,970 | 23.55 ft |
| | 4.5 m | kg | | | | | *9,320 | *9,320 | *7,740 | 7,250 | *7,100 | 5,140 | | | 6,960 | 4,720 | 7.90 m |
| | 15 ft | lb | | | | | *19,650 | *19,650 | *16,490 | 15,190 | *15,280 | 10,700 | | | 15,030 | 10,100 | 25.88 ft |
| | 3.0 m | kg | | | | | *12,020 | 10,510 | *8,950 | 6,930 | 7,430 | 5,000 | | | 6,400 | 4,320 | 8.25 m |
| | 10 ft | lb | | | | | *25,390 | 22,000 | *19,040 | 14,480 | 15,600 | 10,410 | | | 13,750 | 9,200 | 27.09 ft |
| | 1.5 m | kg | | | | | *14,100 | 9,930 | *10,090 | 6,630 | 7,270 | 4,850 | | | 6,230 | 4,180 | 8.32 m |
| | 5 ft | lb | | | | | *30,000 | 20,730 | 21,360 | 13,830 | 15,260 | 10,100 | | | 13,360 | 8,880 | 27.33 ft |
| | 0 m | kg | | | | | *14,870 | 9,690 | 9,960 | 6,440 | 7,150 | 4,750 | | | 6,400 | 4,270 | 8.11 m |
| | 0 ft | lb | | | | | *31,820 | 20,220 | 20,900 | 13,430 | 15,020 | 9,890 | | | 13,730 | 9,080 | 26.63 ft |
| | -1.5 m | kg | | | *10,440 | *10,440 | *14,660 | 9,650 | 9,880 | 6,370 | 7,120 | 4,720 | | | 7,000 | 4,650 | 7.59 m |
| | -5 ft | lb | | | *23,830 | *23,830 | *31,460 | 20,180 | 20,770 | 13,310 | | | | | 15,100 | 9,930 | 24.90 ft |
| | -3.0 m | kg | | | *18,690 | *18,690 | *13,560 | 9,750 | 9,940 | 6,430 | | | | | 8,450 | 5,550 | 6.70 m |
| | -10 ft | lb | | | *40,270 | *40,270 | *29,060 | 20,460 | 20,980 | 13,500 | | | | | 18,390 | 11,990 | 21.90 ft |
| | -4.5 m | kg | | | *14,940 | *14,940 | *10,900 | 10,030 | | | | | | | *9,080 | 8,030 | 5.24 m |
| | -15 ft | lb | | | *31,840 | *31,840 | *23,020 | 21,200 | | | | | | | *19,820 | 17,790 | 16.94 ft |
| Boom : 6.0 m, 19'8" Arm : 2.97m , 9'9" Shoe : 600 mm, 24" CWT : 4,950 kg, 10,910 lb | 7.5 m | kg | | | | | | | | | | | | | *6,080 | *6,080 | 6.61 m |
| | 25 ft | lb | | | | | | | *13,350 | *13,350 | | | | | *13,460 | *13,460 | 21.40 ft |
| | 6.0 m | kg | | | | | | | *6,330 | *6,330 | *6,390 | 5,300 | | | *5,830 | 5,120 | 7.66 m |
| | 20 ft | lb | | | | | | | *13,590 | *13,590 | | | | | *12,820 | 11,070 | 24.99 ft |
| | 4.5 m | kg | | | | | *8,430 | *8,430 | *7,220 | *7,220 | *6,670 | 5,210 | | | *5,860 | 4,420 | 8.30 m |
| | 15 ft | lb | | | | | *17,840 | *17,840 | *15,420 | *15,420 | *14,370 | 10,900 | | | *12,840 | 9,490 | 27.20 ft |
| | 3.0 m | kg | | | | | *11,140 | 10,720 | *8,490 | 7,020 | *7,280 | 5,050 | | | 6,010 | 4,070 | 8.64 m |
| | 10 ft | lb | | | | | *23,630 | 22,550 | *18,110 | 14,730 | *15,620 | 10,570 | | | 12,950 | 8,690 | 28.35 ft |
| | 1.5 m | kg | | | | | *13,500 | 10,070 | *9,740 | 6,700 | 7,300 | 4,890 | | | 5,850 | 3,940 | 8.70 m |
| | 5 ft | lb | | | | | *28,800 | 21,120 | *20,820 | 14,030 | 15,380 | 10,220 | | | 12,590 | 8,400 | 28.58 ft |
| | 0 m | kg | | | *5,020 | *5,020 | *14,680 | 9,730 | 9,990 | 6,470 | 7,160 | 4,760 | | | 5,980 | 4,000 | 8.50 m |
| | 0 ft | lb | | | *11,570 | *11,570 | *31,500 | 20,410 | 21,040 | 13,560 | 15,090 | 9,950 | | | 12,880 | 8,550 | 27.91 ft |
| | -1.5 m | kg | *6,670 | *6,670 | *10,700 | *10,700 | *14,820 | 9,620 | 9,860 | 6,360 | 7,090 | 4,690 | | | 6,470 | 4,310 | 8.01 m |
| | -5 ft | lb | *14,880 | *14,880 | *24,230 | *24,230 | *31,870 | 20,220 | 20,810 | 13,350 | 14,980 | 9,850 | | | 13,990 | 9,240 | 26.26 ft |
| | -3.0 m | kg | *12,360 | *12,360 | *17,780 | *17,780 | *14,040 | 9,670 | 9,880 | 6,370 | | | | | 7,610 | 5,020 | 7.17 m |
| | -10 ft | lb | *27,720 | *27,720 | *40,420 | *40,420 | *30,210 | 20,390 | 20,890 | 13,430 | | | | | 16,570 | 10,870 | 23.44 ft |
| | -4.5 m | kg | | | *16,720 | *16,720 | *12,000 | 9,880 | | | | | | | *8,940 | 6,810 | 5.83 m |
| | -15 ft | lb | | | *35,860 | *35,860 | *25,620 | 20,940 | | | | | | | *19,620 | 15,020 | 18.90 ft |
| Boom : 6.0 m, 19'8" Arm : 3.6m, 11'10" Shoe : 600 mm, 24" CWT : 4,950 kg, 10,910 lb | 7.5 m | kg | | | | | | | | | | | | | *5,040 | *5,040 | 7.23 m |
| | 25 ft | lb | | | | | | | | | | | | | *11,110 | *11,110 | 23.43 ft |
| | 6.0 m | kg | | | | | | | | | *5,650 | 5,400 | | | *4,900 | 4,640 | 8.19 m |
| | 20 ft | lb | | | | | | | | | *12,170 | 11,240 | | | *10,740 | 9,990 | 26.75 ft |
| | 4.5 m | kg | | | | | | | *6,430 | *6,430 | *6,060 | 5,270 | | | *4,950 | 4,060 | 8.80 m |
| | 15 ft | lb | | | | | | | *13,660 | *13,660 | *12,970 | 10,990 | | | *10,830 | 8,660 | 28.82 ft |
| | 3.0 m | kg | | | *15,760 | *15,760 | *9,850 | *9,850 | *7,750 | 7,110 | *6,750 | 5,090 | *5,650 | 3,830 | *5,180 | 3,750 | 9.11 m |
| | 10 ft | lb | | | *32,940 | *32,940 | *20,800 | *20,800 | *16,460 | 14,870 | *14,410 | 10,590 | | | *11,320 | 7,960 | 29.91 ft |
| | 1.5 m | kg | | | | | *12,490 | 10,210 | *9,130 | 6,740 | 7,320 | 4,890 | 5,560 | 3,730 | 5,400 | 3,630 | 9.17 m |
| | 5 ft | lb | | | | | *26,510 | 21,330 | *19,420 | 14,060 | 15,350 | 10,170 | 11,630 | 7,720 | 11,560 | 7,670 | 30.12 ft |
| | 0 m | kg | | | *7,080 | *7,080 | *14,150 | 9,740 | 9,990 | 6,460 | 7,140 | 4,730 | | | 5,490 | 3,660 | 8.98 m |
| | 0 ft | lb | | | *16,080 | *16,080 | *30,200 | 20,300 | 20,960 | 13,450 | 14,970 | 9,820 | | | 11,750 | 7,760 | 29.49 ft |
| | -1.5 m | kg | *6,800 | *6,800 | *10,800 | *10,800 | *14,740 | 9,540 | 9,810 | 6,300 | 7,030 | 4,630 | | | 5,870 | 3,900 | 8.52 m |
| | -5 ft | lb | *15,140 | *15,140 | *24,400 | *24,400 | *31,560 | 19,890 | 20,590 | 13,120 | 14,760 | 9,630 | | | 12,610 | 8,280 | 27.94 ft |
| | -3.0 m | kg | *11,030 | *11,030 | *16,000 | *16,000 | *14,400 | 9,520 | 9,760 | 6,260 | 7,020 | 4,620 | | | 6,730 | 4,440 | 7.74 m |
| | -10 ft | lb | *24,690 | *24,690 | *36,250 | *36,250 | *30,860 | 19,920 | 20,540 | 13,090 | 14,800 | 9,660 | | | 14,550 | 9,510 | 25.31 ft |
| | -4.5 m | kg | *16,340 | *16,340 | *18,580 | *18,580 | *12,990 | 9,660 | *9,600 | 6,360 | | | | | *8,610 | 5,690 | 6.52 m |
| | -15 ft | lb | *36,820 | *36,820 | *39,780 | *39,780 | *27,730 | 20,320 | *20,340 | 13,380 | | | | | *18,820 | 12,390 | 21.18 ft |
| | -6.0 m | kg | | | | | *9,450 | *9,450 | | | | | | | *9,390 | *9,390 | 4.52 m |
| | -20 ft | lb | | | | | *20,834 | *20,834 | | | | | | | *20,701 | *20,701 | 14.83 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

**LIFTING CAPACITY EC250EL**

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

| | Lifting Point | | 1.5 m, 5 ft | | 3.0 m, 10 ft | | 4.5 m, 15 ft | | 6.0 m, 20 ft | | 7.5 m, 25 ft | | 9.0 m, 30 ft | | Max. Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Max. |
| Boom : 6.0 m, 19'8" Arm : 2.5 m, 8'2" Shoe : 800 mm, 32" CWT : 4,950 kg, 10,910 lb | 7.5 m | kg | | | | | | | *6,880 | *6,880 | | | | | *6,930 | *6,930 | 6.10 m |
| | 25 ft | lb | | | | | | | | | | | | | *14,960 | *14,960 | 19.69 ft |
| | 6.0 m | kg | | | | | | | *6,890 | *6,890 | | | | | *6,910 | 5,640 | 7.22 m |
| | 20 ft | lb | | | | | | | *14,740 | *14,740 | | | | | *14,900 | 12,180 | 23.55 ft |
| | 4.5 m | kg | | | | | *9,310 | *9,310 | *7,730 | 7,390 | *7,070 | 5,240 | | | *7,040 | 4,810 | 7.90 m |
| | 15 ft | lb | | | | | *19,580 | *19,580 | *16,420 | 15,450 | *15,200 | 10,880 | | | *15,190 | 10,270 | 25.88 ft |
| | 3.0 m | kg | | | | | *11,980 | 10,690 | *8,920 | 7,050 | 7,580 | 5,090 | | | 6,530 | 4,400 | 8.25 m |
| | 10 ft | lb | | | | | *25,270 | 22,350 | *18,940 | 14,710 | 15,910 | 10,580 | | | 14,020 | 9,340 | 27.09 ft |
| | 1.5 m | kg | | | | | *14,050 | 10,090 | *10,050 | 6,750 | 7,410 | 4,940 | | | 6,350 | 4,250 | 8.32 m |
| | 5 ft | lb | | | | | *29,840 | 21,040 | *21,380 | 14,050 | 15,550 | 10,260 | | | 13,620 | 9,020 | 27.33 ft |
| | 0 m | kg | | | | | *14,800 | 9,840 | 10,150 | 6,550 | 7,290 | 4,830 | | | 6,520 | 4,340 | 8.11 m |
| | 0 ft | lb | | | | | *31,640 | 20,510 | 21,300 | 13,630 | 15,310 | 10,040 | | | 14,000 | 9,220 | 26.63 ft |
| | -1.5 m | kg | | | *10,440 | *10,440 | *14,590 | 9,790 | 10,060 | 6,470 | 7,250 | 4,790 | | | 7,130 | 4,720 | 7.59 m |
| | -5 ft | lb | | | *23,830 | *23,830 | *31,270 | 20,470 | 21,160 | 13,500 | | | | | 15,380 | 10,080 | 24.90 ft |
| | -3.0 m | kg | | | *18,580 | *18,580 | *13,480 | 9,890 | *10,090 | 6,520 | | | | | 8,610 | 5,640 | 6.70 m |
| | -10 ft | lb | | | *40,020 | *40,020 | *28,890 | 20,760 | 21,370 | 13,700 | | | | | 18,730 | 12,170 | 21.90 ft |
| | -4.5 m | kg | | | *14,840 | *14,840 | *10,830 | 10,170 | | | | | | | *9,020 | 8,150 | 5.24 m |
| | -15 ft | lb | | | *31,610 | *31,610 | *22,870 | 21,520 | | | | | | | *19,680 | 18,060 | 16.94 ft |
| Boom : 6.0 m, 19'8" Arm : 2.97 m, 9'9" Shoe : 800 mm, 32" CWT : 4,950 kg, 10,910 lb | 7.5 m | kg | | | | | | | | | | | | | *6,050 | *6,050 | 6.61 m |
| | 25 ft | lb | | | | | | | *13,200 | *13,200 | | | | | *13,420 | *13,420 | 21.40 ft |
| | 6.0 m | kg | | | | | | | *6,280 | *6,280 | *6,330 | 5,370 | | | *5,800 | 5,180 | 7.66 m |
| | 20 ft | lb | | | | | | | *13,430 | *13,430 | | | | | *12,780 | 11,170 | 24.99 ft |
| | 4.5 m | kg | | | | | *8,390 | *8,390 | *7,170 | *7,170 | *6,620 | 5,280 | | | *5,830 | 4,470 | 8.30 m |
| | 15 ft | lb | | | | | *17,640 | *17,640 | *15,230 | *15,230 | *14,170 | 10,990 | | | *12,800 | 9,540 | 27.20 ft |
| | 3.0 m | kg | | | | | *11,080 | 10,890 | *8,430 | 7,120 | *7,220 | 5,120 | | | *6,070 | 4,110 | 8.64 m |
| | 10 ft | lb | | | | | *23,340 | 22,760 | *17,870 | 14,850 | *15,410 | 10,630 | | | 13,100 | 8,720 | 28.35 ft |
| | 1.5 m | kg | | | | | *13,410 | 10,200 | *9,660 | 6,780 | 7,420 | 4,940 | | | 5,940 | 3,970 | 8.70 m |
| | 5 ft | lb | | | | | *28,440 | 21,250 | *20,540 | 14,110 | 15,560 | 10,260 | | | 12,720 | 8,420 | 28.58 ft |
| | 0 m | kg | | | *4,990 | *4,990 | *14,580 | 9,850 | 10,150 | 6,540 | 7,270 | 4,810 | | | 6,070 | 4,040 | 8.50 m |
| | 0 ft | lb | | | *11,530 | *11,530 | *31,100 | 20,490 | 21,280 | 13,600 | 15,260 | 9,980 | | | 13,010 | 8,560 | 27.91 ft |
| | -1.5 m | kg | *6,640 | *6,640 | *10,660 | *10,660 | *14,700 | 9,740 | 10,020 | 6,430 | 7,200 | 4,740 | | | 6,570 | 4,350 | 8.01 m |
| | -5 ft | lb | *14,840 | *14,840 | *24,190 | *24,190 | *31,470 | 20,290 | 21,040 | 13,390 | 15,140 | 9,870 | | | 14,140 | 9,260 | 26.26 ft |
| | -3.0 m | kg | *12,320 | *12,320 | *17,740 | *17,740 | *13,930 | 9,780 | 10,030 | 6,440 | | | | | 7,720 | 5,070 | 7.17 m |
| | -10 ft | lb | *27,680 | *27,680 | *40,400 | *40,400 | *29,820 | 20,480 | 21,130 | 13,470 | | | | | 16,760 | 10,900 | 23.44 ft |
| | -4.5 m | kg | | | *16,570 | *16,570 | *11,890 | 10,000 | | | | | | | *8,850 | 6,880 | 5.83 m |
| | -15 ft | lb | | | *35,370 | *35,370 | *25,260 | 21,070 | | | | | | | *19,330 | 15,110 | 18.90 ft |
| Boom : 6.0 m, 19'8" Arm : 3.6 m, 11'10" Shoe : 800 mm, 32" CWT : 4,950 kg, 10,910 lb | 7.5 m | kg | | | | | | | | | | | | | *5,040 | *5,040 | 7.23 m |
| | 25 ft | lb | | | | | | | | | | | | | *11,110 | *11,110 | 23.43 ft |
| | 6.0 m | kg | | | | | | | | | *5,640 | 5,500 | | | *4,900 | 4,730 | 8.19 m |
| | 20 ft | lb | | | | | | | | | *12,120 | 11,450 | | | *10,740 | 10,170 | 26.75 ft |
| | 4.5 m | kg | | | | | | | *6,420 | *6,420 | *6,050 | 5,380 | | | *4,950 | 4,140 | 8.80 m |
| | 15 ft | lb | | | | | | | *13,610 | *13,610 | *12,910 | 11,190 | | | *10,830 | 8,810 | 28.82 ft |
| | 3.0 m | kg | | | *15,730 | *15,730 | *9,830 | *9,830 | *7,730 | 7,250 | *6,730 | 5,190 | *5,650 | 3,900 | *5,180 | 3,820 | 9.11 m |
| | 10 ft | lb | | | *32,810 | *32,810 | *20,710 | *20,710 | *16,390 | 15,130 | *14,330 | 10,770 | | | *11,320 | 8,090 | 29.91 ft |
| | 1.5 m | kg | | | | | *12,450 | 10,390 | *9,100 | 6,860 | 7,470 | 4,980 | 5,670 | 3,800 | 5,510 | 3,690 | 9.17 m |
| | 5 ft | lb | | | | | *26,380 | 21,670 | *19,320 | 14,290 | 15,660 | 10,340 | 11,860 | 7,850 | 11,790 | 7,800 | 30.12 ft |
| | 0 m | kg | | | *7,080 | *7,080 | *14,100 | 9,900 | *10,160 | 6,570 | 7,280 | 4,810 | | | 5,600 | 3,730 | 8.98 m |
| | 0 ft | lb | | | *16,080 | *16,080 | *30,040 | 20,600 | 21,360 | 13,660 | 15,270 | 9,980 | | | 11,990 | 7,880 | 29.49 ft |
| | -1.5 m | kg | *6,800 | *6,800 | *10,800 | *10,800 | *14,670 | 9,690 | 10,000 | 6,400 | 7,170 | 4,710 | | | 5,980 | 3,960 | 8.52 m |
| | -5 ft | lb | *15,140 | *15,140 | *24,400 | *24,400 | *31,380 | 20,180 | 20,980 | 13,320 | 15,050 | 9,780 | | | 12,850 | 8,410 | 27.94 ft |
| | -3.0 m | kg | *11,030 | *11,030 | *16,000 | *16,000 | *14,330 | 9,670 | 9,950 | 6,360 | 7,160 | 4,700 | | | 6,850 | 4,510 | 7.74 m |
| | -10 ft | lb | *24,690 | *24,690 | *36,250 | *36,250 | *30,680 | 20,210 | 20,930 | 13,280 | 15,080 | 9,810 | | | 14,830 | 9,660 | 25.31 ft |
| | -4.5 m | kg | *16,340 | *16,340 | *18,470 | *18,470 | *12,920 | 9,810 | *9,550 | 6,460 | | | | | *8,560 | 5,770 | 6.52 m |
| | -15 ft | lb | *36,820 | *36,820 | *39,520 | *39,520 | *27,560 | 20,620 | *20,210 | 13,580 | | | | | *18,700 | 12,580 | 21.18 ft |
| | -6.0 m | kg | | | | | *9,380 | *9,380 | | | | | | | *9,330 | *9,330 | 4.52 m |
| | -20 ft | lb | | | | | *20,679 | *20,679 | | | | | | | *20,569 | *20,569 | 14.83 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

# Specifications

**LIFTING CAPACITY EC250EL**

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

| | Lifting Point | 1.5 m, 5 ft | | 3.0 m, 10 ft | | 4.5 m, 15 ft | | 6.0 m, 20 ft | | 7.5 m, 25 ft | | 9.0 m, 30 ft | | Max. Reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Max. |
| Boom : 5.95 m, 19'6" 2-piece Arm : 2.5 m, 8'2" Shoe : 600 mm, 24" CWT : 4,950 kg, 10,910 lb | 9.0 m kg | | | | | | | | | | | | | *9,630 | *9,630 | 4.21 m |
| | 30 ft lb | | | | | | | | | | | | | *21,230 | *21,230 | 13.81 ft |
| | 7.5 m kg | | | | | *9,810 | *9,810 | *8,570 | 7,430 | | | | | *8,030 | 7,170 | 6.12 m |
| | 25 ft lb | | | | | *21,627 | *21,627 | *18,894 | 16,380 | | | | | *17,703 | 15,807 | 20.08 ft |
| | 6.0 m kg | | | | | *10,060 | *10,060 | *9,010 | 7,400 | | | | | *7,530 | 5,420 | 7.24 m |
| | 20 ft lb | | | | | *22,178 | *22,178 | *19,864 | 16,314 | | | | | *16,601 | 11,949 | 23.75 ft |
| | 4.5 m kg | | | | | *12,130 | 11,170 | *9,600 | 7,150 | 7,520 | 5,040 | | | 6,880 | 4,610 | 7.92 m |
| | 15 ft lb | | | | | *26,742 | 24,626 | *21,164 | 15,763 | 16,579 | 11,111 | | | 15,168 | 10,163 | 25.98 ft |
| | 3.0 m kg | | | | | *13,960 | 10,350 | *10,360 | 6,810 | 7,370 | 4,900 | | | 6,330 | 4,220 | 8.27 m |
| | 10 ft lb | | | | | *30,776 | 22,818 | *22,840 | 15,013 | 16,248 | 10,803 | | | 13,955 | 9,303 | 27.13 ft |
| | 1.5 m kg | | | | | *14,790 | 9,760 | 10,090 | 6,510 | 7,210 | 4,760 | | | 6,160 | 4,090 | 8.33 m |
| | 5 ft lb | | | | | *32,606 | 21,517 | 22,245 | 14,352 | 15,895 | 10,494 | | | 13,580 | 9,017 | 27.33 ft |
| | 0 m kg | | | | | *14,170 | 9,530 | 9,890 | 6,330 | 7,100 | 4,660 | | | 6,350 | 4,190 | 8.12 m |
| | 0 ft lb | | | | | *31,239 | 21,010 | 21,804 | 13,955 | 15,653 | 10,274 | | | 13,999 | 9,237 | 26.64 ft |
| | -1.5 m kg | | | *10,240 | *10,240 | *12,510 | 9,530 | *9,680 | 6,280 | 7,100 | 4,660 | | | *6,880 | 4,580 | 7.60 m |
| | -5 ft lb | | | *22,575 | *22,575 | *27,580 | 21,010 | *21,341 | 13,845 | 15,653 | 10,274 | | | *15,168 | 10,097 | 24.93 ft |
| | -3.0 m kg | | | | | *9,730 | 9,680 | *7,470 | 6,380 | | | | | *6,010 | 5,510 | 6.72 m |
| | -10 ft lb | | | | | *21,451 | 21,341 | *16,469 | 14,065 | | | | | *13,250 | 12,147 | 22.05 ft |
| Boom : 5.95 m, 19'6" 2-piece Arm : 2.97 m, 9'9" Shoe : 600 mm, 24" CWT : 4,950 kg, 10,910 lb | 9.0 m kg | | | | | *7,830 | *7,830 | | | | | | | *6,870 | *6,870 | 4.96 m |
| | 30 ft lb | | | | | *17,262 | *17,262 | | | | | | | *15,146 | *15,146 | 16.27 ft |
| | 7.5 m kg | | | | | *7,800 | *7,800 | *7,460 | *7,460 | | | | | *5,960 | *5,960 | 6.65 m |
| | 25 ft lb | | | | | *17,196 | *17,196 | *16,446 | *16,446 | | | | | *13,140 | *13,140 | 21.82 ft |
| | 6.0 m kg | | | | | *7,990 | *7,990 | *8,300 | 7,510 | *6,470 | 5,180 | | | *5,660 | 4,950 | 7.69 m |
| | 20 ft lb | | | | | *17,615 | *17,615 | *18,298 | 16,557 | *14,264 | 11,420 | | | *12,478 | 10,913 | 25.23 ft |
| | 4.5 m kg | | | *16,230 | *16,230 | *11,400 | 11,380 | *9,190 | 7,240 | 7,580 | 5,090 | | | *5,640 | 4,270 | 8.33 m |
| | 15 ft lb | | | *35,781 | *35,781 | *25,133 | 25,089 | *20,260 | 15,961 | 16,711 | 11,222 | | | *12,434 | 9,414 | 27.33 ft |
| | 3.0 m kg | | | | | *13,370 | 10,550 | *10,040 | 6,880 | 7,400 | 4,930 | | | *5,820 | 3,930 | 8.66 m |
| | 10 ft lb | | | | | *29,476 | 23,259 | *22,134 | 15,168 | 16,314 | 10,869 | | | *12,831 | 8,664 | 28.41 ft |
| | 1.5 m kg | | | | | *14,620 | 9,860 | 10,140 | 6,540 | 7,210 | 4,760 | | | 5,750 | 3,810 | 8.73 m |
| | 5 ft lb | | | | | *32,232 | 21,738 | 22,355 | 14,418 | 15,895 | 10,494 | | | 12,677 | 8,400 | 28.64 ft |
| | 0 m kg | | | | | *14,490 | 9,520 | 9,880 | 6,320 | 7,080 | 4,640 | | | 5,890 | 3,880 | 8.52 m |
| | 0 ft lb | | | | | *31,945 | 20,988 | 21,782 | 13,933 | 15,609 | 10,229 | | | 12,985 | 8,554 | 27.95 ft |
| | -1.5 m kg | | | *10,490 | *10,490 | *13,190 | 9,450 | 9,780 | 6,230 | 7,030 | 4,590 | | | 6,390 | 4,200 | 8.04 m |
| | -5 ft lb | | | *23,126 | *23,126 | *29,079 | 20,834 | 21,561 | 13,735 | 15,498 | 10,119 | | | 14,088 | 9,259 | 26.38 ft |
| | -3.0 m kg | | | | | *10,790 | 9,550 | *8,290 | 6,280 | | | | | *6,120 | 4,930 | 7.20 m |
| | -10 ft lb | | | | | *23,788 | 21,054 | *18,276 | 13,845 | | | | | *13,492 | 10,869 | 23.62 ft |
| Boom : 5.95 m, 19'6" 2-piece Arm : 3.6 m, 11'10" Shoe : 600 mm, 24" CWT : 4,950 kg, 10,910 lb | 9.0 m kg | | | | | | | | | | | | | *5,510 | *5,510 | 5.79 m |
| | 30 ft lb | | | | | | | | | | | | | *12,147 | *12,147 | 19.00 ft |
| | 7.5 m kg | | | | | | | *6,460 | *6,460 | | | | | *4,960 | *4,960 | 7.28 m |
| | 25 ft lb | | | | | | | *14,242 | *14,242 | | | | | *10,935 | *10,935 | 23.88 ft |
| | 6.0 m kg | | | | | | | *6,830 | *6,830 | *6,280 | 5,320 | | | *4,780 | 4,510 | 8.24 m |
| | 20 ft lb | | | | | | | *15,058 | *15,058 | *13,845 | 11,729 | | | *10,538 | 9,943 | 27.03 ft |
| | 4.5 m kg | | | *7,580 | *7,580 | *8,160 | *8,160 | *8,090 | 7,400 | *7,370 | 5,190 | | | *4,790 | 3,940 | 8.84 m |
| | 15 ft lb | | | *16,711 | *16,711 | *17,990 | *17,990 | *17,835 | 16,314 | *16,248 | 11,442 | | | *10,560 | 8,686 | 29.00 ft |
| | 3.0 m kg | | | | | *12,480 | 10,850 | *9,560 | 7,010 | 7,480 | 5,000 | 5,610 | 3,750 | *4,970 | 3,640 | 9.16 m |
| | 10 ft lb | | | | | *27,514 | 23,920 | *21,076 | 15,454 | 16,491 | 11,023 | 12,368 | 8,267 | *10,957 | 8,025 | 30.05 ft |
| | 1.5 m kg | | | | | *14,170 | 10,040 | 10,240 | 6,620 | 7,260 | 4,800 | 5,510 | 3,650 | 5,310 | 3,520 | 9.22 m |
| | 5 ft lb | | | | | *31,239 | 22,134 | 22,575 | 14,595 | 16,006 | 10,582 | 12,147 | 8,047 | 11,707 | 7,760 | 30.25 ft |
| | 0 m kg | | | *6,890 | *6,890 | *14,630 | 9,560 | 9,910 | 6,340 | 7,080 | 4,640 | 5,430 | 3,580 | 5,410 | 3,570 | 9.03 m |
| | 0 ft lb | | | *15,190 | *15,190 | *32,254 | 21,076 | 21,848 | 13,977 | 15,609 | 10,229 | 11,971 | 7,893 | 11,927 | 7,870 | 29.63 ft |
| | -1.5 m kg | | | *10,640 | *10,640 | *13,860 | 9,380 | 9,740 | 6,190 | 6,990 | 4,550 | | | 5,790 | 3,810 | 8.57 m |
| | -5 ft lb | | | *23,457 | *23,457 | *30,556 | 20,679 | 21,473 | 13,647 | 15,410 | 10,031 | | | 12,765 | 8,400 | 28.12 ft |
| | -3.0 m kg | | | *15,820 | *15,820 | *11,980 | 9,410 | *9,120 | 6,180 | *6,730 | 4,570 | | | *6,220 | 4,360 | 7.79 m |
| | -10 ft lb | | | *34,877 | *34,877 | *26,411 | 20,745 | *20,106 | 13,625 | *14,837 | 10,075 | | | *13,713 | 9,612 | 25.56 ft |
| | -4.5 m kg | | | | | *8,710 | *8,710 | *6,450 | 6,330 | | | | | | | 6.59 m |
| | -15 ft lb | | | | | *19,202 | *19,202 | *14,220 | 13,955 | | | | | | | 21.62 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

**LIFTING CAPACITY EC250ELR**

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

| | Lifting point | | 0 m, 0 ft | | 1.5 m, 5 ft | | 3.0 m, 10 ft | | 4.5 m, 15 ft | | 6.0 m, 20 ft | | 7.5 m, 25 ft | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC |
| Boom : 10.2 m LR, 33'6" Arm : 7.85 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,200 kg, 13,670 lb | 3.0 m | kg | | | | | *4,270 | *4,270 | *7,550 | *7,550 | *5,480 | *5,480 | *4,410 | *4,410 |
| | 10 ft | lb | | | | | *10,580 | *10,580 | *14,610 | *14,610 | *10,610 | *10,610 | *8,510 | *8,510 |
| | 1.5 m | kg | | | | | *1,460 | *1,460 | *5,150 | *5,150 | *6,700 | 6,630 | *5,160 | 4,910 |
| | 5 ft | lb | | | | | *3,350 | *3,350 | *12,040 | *12,040 | *12,970 | *12,970 | *9,980 | *9,980 |
| | 0 m | kg | | | | | *1,550 | *1,550 | *3,490 | *3,490 | *7,670 | 5,950 | *5,820 | 4,460 |
| | 0 ft | lb | | | | | *3,480 | *3,480 | *7,950 | *7,950 | *14,890 | 12,590 | *11,270 | 9,430 |
| | -1.5 m | kg | | | *1,510 | *1,510 | *2,010 | *2,010 | *3,370 | *3,370 | *6,290 | 5,510 | *6,330 | 4,130 |
| | -5 ft | lb | | | *3,320 | *3,320 | *4,470 | *4,470 | *7,600 | *7,600 | *14,390 | 11,620 | *12,280 | 8,700 |
| | -3 m | kg | *2,080 | *2,080 | *2,070 | *2,070 | *2,550 | *2,550 | *3,690 | *3,690 | *5,980 | 5,260 | 6,410 | 3,910 |
| | -10 ft | lb | *4,580 | *4,580 | *4,570 | *4,570 | *5,680 | *5,680 | *8,290 | *8,290 | *13,610 | 11,090 | *12,950 | 8,220 |
| | -4.5 m | kg | *2,510 | *2,510 | *2,640 | *2,640 | *3,140 | *3,140 | *4,200 | *4,200 | *6,260 | 5,150 | 6,270 | 3,780 |
| | -15 ft | lb | *5,550 | *5,550 | *5,850 | *5,850 | *7,010 | *7,010 | *9,450 | *9,450 | *14,210 | 10,860 | *13,310 | 7,960 |
| | -6 m | kg | *3,000 | *3,000 | *3,230 | *3,230 | *3,790 | *3,790 | *4,860 | *4,860 | *6,880 | 5,130 | 6,220 | 3,740 |
| | -20 ft | lb | *6,650 | *6,650 | *7,180 | *7,180 | *8,460 | *8,460 | *10,940 | *10,940 | *15,620 | 10,850 | 13,280 | 7,880 |
| | -7.5 m | kg | *3,530 | *3,530 | *3,850 | *3,850 | *4,500 | *4,500 | *5,660 | *5,660 | *7,790 | 5,190 | 6,240 | 3,750 |
| | -25 ft | lb | *7,840 | *7,840 | *8,590 | *8,590 | *10,070 | *10,070 | *12,750 | *12,750 | *16,430 | 11,010 | *13,030 | 7,940 |
| | -9 m | kg | | | *4,530 | *4,530 | *5,290 | *5,290 | *6,610 | *6,610 | *7,920 | 5,310 | 6,330 | 3,830 |
| | -30 ft | lb | | | *10,110 | *10,110 | *11,870 | *11,870 | *14,940 | *14,940 | *15,400 | 11,320 | *12,330 | 8,140 |
| | -10.5 m | kg | | | | | *6,190 | *6,190 | *7,790 | *7,790 | *7,150 | 5,510 | *5,790 | 3,970 |
| | -35 ft | lb | | | | | *13,910 | *13,910 | *17,670 | *17,670 | *13,780 | 11,810 | *11,120 | 8,490 |
| | -12 m | kg | | | | | | | *7,560 | *7,560 | *5,990 | 5,790 | *4,860 | 4,190 |
| | -40 ft | lb | | | | | | | *14,310 | *14,310 | *11,310 | *11,310 | *9,130 | 9,040 |

| | | | 9.0 m, 30 ft | | 10.5 m, 35 ft | | 12.0 m, 40 ft | | 13.5 m, 45 ft | | 15.0 m, 50 ft | | 16.5 m, 55 ft | | Max. reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Along UC | Across UC | Max |
| Boom : 10.2 m LR, 33'6" Arm : 7.85 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,200 kg, 13,670 lb | 13.5 m | kg | | | | | | | | | | | | | *1,090 | *1,090 | 12.41 m |
| | 45 ft | lb | | | | | *1,330 | *1,330 | | | | | | | *1,280 | *1,280 | 40.14 ft |
| | 12.0 m | kg | | | | | | | *1,160 | *1,160 | | | | | *1,030 | *1,030 | 13.67 m |
| | 40 ft | lb | | | | | | | | | | | | | *1,170 | *1,170 | 44.48 ft |
| | 10.5 m | kg | | | | | | | *1,740 | *1,740 | | | | | *,990 | *,990 | 14.67 m |
| | 35 ft | lb | | | | | | | *2,070 | *2,070 | | | | | *1,100 | *1,100 | 47.90 ft |
| | 9.0 m | kg | | | | | | | *2,100 | *2,100 | *1,360 | *1,360 | | | *,980 | *,980 | 15.46 m |
| | 30 ft | lb | | | | | | | *2,700 | *2,700 | *1,330 | *1,330 | | | *1,070 | *1,070 | 50.60 ft |
| | 7.5 m | kg | | | | | *2,360 | *2,360 | *2,330 | *2,330 | *1,790 | *1,790 | | | *,970 | *,970 | 16.07 m |
| | 25 ft | lb | | | | | *3,690 | *3,690 | *3,180 | *3,180 | *2,110 | *2,110 | | | *1,060 | *1,060 | 52.68 ft |
| | 6.0 m | kg | | | | | *2,540 | *2,540 | *2,450 | 2,320 | *2,120 | 1,850 | *1,010 | *1,010 | *,990 | *,990 | 16.53 m |
| | 20 ft | lb | | | | | *4,200 | *4,200 | *3,660 | *3,660 | *2,660 | *2,660 | | | *1,070 | *1,070 | 54.22 ft |
| | 4.5 m | kg | | | *2,970 | *2,970 | *2,760 | 2,750 | *2,610 | 2,210 | *2,430 | 1,780 | *1,370 | *1,370 | *1,010 | *1,010 | 16.83 m |
| | 15 ft | lb | | | *5,460 | *5,460 | *4,920 | *4,920 | *4,200 | *4,200 | *3,140 | *3,140 | *1,250 | *1,250 | *1,110 | *1,110 | 55.26 ft |
| | 3.0 m | kg | *3,750 | *3,750 | *3,320 | 3,240 | *3,010 | 2,590 | *2,780 | 2,100 | *2,620 | 1,700 | *1,600 | 1,380 | *1,050 | *1,050 | 17.00 m |
| | 10 ft | lb | *7,230 | *7,230 | *6,380 | *6,380 | *5,780 | 5,450 | *4,880 | 4,380 | *3,590 | 3,530 | *1,630 | *1,630 | *1,170 | *1,170 | 55.83 ft |
| | 1.5 m | kg | *4,260 | 3,790 | *3,670 | 3,010 | *3,260 | 2,430 | *2,970 | 1,980 | 2,590 | 1,620 | *1,740 | 1,330 | *1,110 | *1,110 | 17.03 m |
| | 5 ft | lb | *8,210 | 8,020 | *7,060 | 6,340 | *6,270 | 5,090 | *5,690 | 4,120 | *4,010 | 3,360 | *1,820 | *1,820 | *1,250 | *1,250 | 55.95 ft |
| | 0 m | kg | *4,720 | 3,490 | *4,000 | 2,790 | *3,500 | 2,270 | 2,980 | 1,870 | 2,510 | 1,540 | *1,750 | 1,280 | *1,190 | *1,190 | 16.93 m |
| | 0 ft | lb | *9,110 | 7,350 | *7,710 | 5,870 | *6,740 | 4,750 | *6,040 | 3,890 | *4,360 | 3,190 | *1,770 | *1,770 | *1,370 | *1,370 | 55.61 ft |
| | -1.5 m | kg | *5,100 | 3,240 | 4,160 | 2,610 | 3,430 | 2,140 | 2,880 | 1,770 | 2,440 | 1,480 | *1,570 | 1,240 | *1,290 | 1,210 | 16.69 m |
| | -5 ft | lb | *9,870 | 6,810 | *8,270 | 5,480 | *7,160 | 4,470 | 6,100 | 3,680 | *4,530 | 3,050 | | | *1,520 | *1,520 | 54.81 ft |
| | -3 m | kg | 4,970 | 3,060 | 4,010 | 2,480 | 3,320 | 2,040 | 2,800 | 1,700 | 2,390 | 1,430 | | | *1,430 | 1,240 | 16.31 m |
| | -10 ft | lb | *10,420 | 6,430 | 8,530 | 5,180 | 7,050 | 4,250 | 5,930 | 3,520 | *4,330 | 2,950 | | | *1,730 | *1,730 | 53.53 ft |
| | -4.5 m | kg | 4,850 | 2,950 | 3,920 | 2,380 | 3,250 | 1,970 | 2,750 | 1,650 | 2,360 | 1,400 | | | *1,610 | 1,290 | 15.77 m |
| | -15 ft | lb | 10,330 | 6,200 | 8,330 | 4,990 | 6,900 | 4,100 | 5,830 | 3,430 | *3,520 | 2,900 | | | *2,010 | *2,010 | 51.74 ft |
| | -6 m | kg | 4,790 | 2,900 | 3,870 | 2,340 | 3,210 | 1,930 | 2,730 | 1,630 | *2,020 | 1,400 | | | *1,870 | 1,390 | 15.07 m |
| | -20 ft | lb | 10,220 | 6,100 | 8,240 | 4,900 | 6,830 | 4,040 | 5,800 | 3,400 | | | | | *2,410 | *2,410 | 49.36 ft |
| | -7.5 m | kg | 4,800 | 2,900 | 3,860 | 2,330 | 3,210 | 1,930 | 2,740 | 1,640 | | | | | *2,260 | 1,540 | 14.18 m |
| | -25 ft | lb | 10,250 | 6,120 | 8,250 | 4,920 | 6,860 | 4,070 | *4,660 | 3,460 | | | | | *3,010 | *3,010 | 46.33 ft |
| | -9 m | kg | 4,850 | 2,950 | 3,910 | 2,380 | 3,270 | 1,980 | | | | | | | *2,890 | 1,780 | 13.04 m |
| | -30 ft | lb | *10,140 | 6,270 | 8,390 | 5,040 | 7,010 | 4,210 | | | | | | | *4,010 | 3,900 | 42.48 ft |
| | -10.5 m | kg | *4,780 | 3,060 | *3,970 | 2,480 | | | | | | | | | *3,410 | 2,180 | 11.61 m |
| | -35 ft | lb | *9,130 | 6,550 | *7,490 | 5,320 | | | | | | | | | *6,010 | 4,860 | 37.58 ft |
| | -12 m | kg | *3,950 | 3,260 | | | | | | | | | | | *3,530 | 2,940 | 9.73 m |
| | -40 ft | lb | *7,290 | 7,050 | | | | | | | | | | | *6,890 | 6,720 | 31.11 ft |

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

# Equipment

| STANDARD EQUIPMENT |
|---|
| **Engine** |
| Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage V requirements |
| Air filter with indicator |
| Air intake heater |
| Cyclone precleaner |
| Electric engine shutoff |
| Fuel filter and water separator |
| Delayed engine shutdown |
| Alternator, 80 A |
| **Electric / Electronic control system** |
| Advanced mode control system |
| Selfdiagnostic system |
| Machine status indication |
| Engine speed sensing power control |
| Automatic idling system |
| Onetouch power boost |
| Safety stop/start function |
| Adjustable LCD color monitor |
| Master electrical disconnect switch |
| Engine restart prevention circuit |
| Highcapacity halogen lights: |
| - Frame-mounted 2 |
| - Boom-mounted 1 |
| Extra work lights(Halogen) : |
| Cab-mounted 3 |
| Boom-mounted 1 |
| Batteries, 2 x 12 V / 170 A |
| Start motor, 24 V / 5.5 kW |
| Travel alarm |
| **Frame** |
| Access way with handrail |
| Tool storage area |
| Punched metal antislip plates |
| Counterweight: |
| 10,910 lb |
| 13,670 lb -Long Reach |
| **Undercarriage** |
| Undercover (heavyduty) |
| Hydraulic track adjusters |
| Greased and sealed track link |
| Track Guard |
| **Hydraulic system** |
| Boom up swing priority function |
| Boom travel priority function (Creep) |
| Boom down speed control |
| Attachment management system (up to 32 programmable memories) |
| - Variable flow and pressure pre-setting |
| Hammer & shear, 2 pump flow |
| Additional return filter (Hammer & shear piping |
| Boom float function without HRV |
| Straight travel pedal |
| Automatic sensing hydraulic system |
| Summation system |
| Boom priority |
| Arm priority |
| Swing priority |
| ECO mode fuel saving technology |
| Boom, arm and bucket regeneration valves |
| Swing antirebound valves |
| Boom and arm holding valves |
| Multistage filtering system |
| Cylinder cushioning |
| Cylinder contamination seals |
| Auxiliary hydraulic valve |
| Automatic twospeed travel motors |
| Hydraulic oil, ISO VG 46 |
| Quick coupler piping |

| STANDARD EQUIPMENT |
|---|
| **Cab and interior** |
| ROPS (ISO121172) certified cab |
| Opening top hatch |
| Silicon oil and rubber mounts with spring |
| Travel pedals and hand levers |
| Adjustable operator seat and joystick control console |
| Heater & airconditioner, automatic |
| Flexible antenna |
| Radio with MP3 & USB Jack with bluetooth |
| Hydraulic safety lock lever |
| Cab, allweather sound suppressed, includes: |
| Cup holders |
| Door locks |
| Tinted glass |
| Floor mat |
| Horn |
| Large storage area |
| Pullup type front window |
| Removable lower windshield |
| Seat belt |
| Safety glass |
| Sun screens, front, roof, rear |
| Rain shield |
| Windshield wiper with intermittent feature |
| Volvo smart view |
| Master key |
| **Track shoes** |
| 32'' with triple grousers |
| **Digging equipment** |
| Linkage with lifting eye |
| Boom: 19'8'' monoblock |
| Arm: 9'9'' |
| Arm: 25'9'', Long Reach |
| Boom: 33'6'' monoblock, Long Reach |
| Manual centralized lubrication |
| **Machine controls** |
| Dig Assist |
| Volvo Active Control (Semi-autonomous) |

| OPTIONAL EQUIPMENT |
|---|
| **Engine** |
| Block heater: 120 V, 240 V |
| Oil bath pre-cleaner |
| Diesel coolant heater, 10 kW |
| Water separator with heater |
| Auto engine shutdown |
| Reversible fan |
| Fuel filler pump: 13.2 gpm, with automatic shutoff |
| **Electric** |
| Extra work lights(LED): |
| Cab-mounted 3 |
| Boom-mounted 1 |
| Counterweight-mounted 1 |
| Green light beacon |
| Anti-theft system |
| Rotating warning beacon |
| Smart connect for tilt rotator |
| Tilt rotator 3rd gen |
| Dig assist, smart connect |
| On Board Weighing (OBW |
| **Undercarriage** |
| Full track guard |
| Track shoes |
| 24/28/36" with triple grousers |
| 24" HD with triple grousers |
| 24/28" with double grousers |

| OPTIONAL EQUIPMENT |
|---|
| High walker undercarriage |
| **Hydraulic system** |
| CDC, Comfort Driving Control |
| Hose rupture valve: boom & arm |
| Overload warning device |
| Boom float function with HRV |
| Hydraulic piping: |
| - Slope & rotator |
| - Grapple |
| - Oil leak (drain) line |
| Volvo hydraulic quick coupler S1 |
| Volvo hydraulic quick coupler S2 |
| Volvo hydraulic quick coupler U25 |
| Volvo hydraulic quick coupler SQ70 55 |
| Volvo hydraulic quick coupler SQ70 |
| Hydraulic oil, biodegradable 46 |
| Hydraulic oil, longlife oil 32 |
| Hydraulic oil, longlife oil 46 |
| Fuel tank-fast fuel fill prep |

| OPTIONAL EQUIPMENT |
|---|
| Hammer & shear, 1 pump flow |
| **Cab and interior** |
| High visibility cabin |
| Fabric seat with heater |
| Fabric seat with heater and air suspension |
| Deluxe seat |
| High-strength one piece front windshield (P5A) |
| Falling object guard, FOG (fixed type or hinge type) |
| Frame-mounted |
| Cab-mounted |
| Cab-mounted falling object protective structure (FOPS) |
| Side view camera |
| Smoker kit (ashtray and lighter) |
| Safety net for front window |
| Lower wiper with intermittent control |
| Anti-vandalism kit |
| Air pressure supply in cabin |
| Rear view camera |
| Control joysticks with 4 switches |
| Propotional joysticks with 3 switches |
| **Digging equipment** |
| Boom: 19’8’’ monoblock, heavy duty |
| Arm: 8’2’’ HD, 9’9’’ HD, 11’10’’ |
| Arm: 25’9’’, long reach |
| Boom: 33’6’’ monoblock, long reach |
| **Service** |
| Tool kit, daily maintenance |
| Tool kit, full scale |
| Automatic lubrication system |

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

**Deluxe seat**

**Reversible cooling fan**


**TiltRotator**

**Oil drain line**


**High-visibility cab**

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

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