

V O L V O



Volvo Excavators

EC300E HYBRID

Volvo Construction Equipment



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

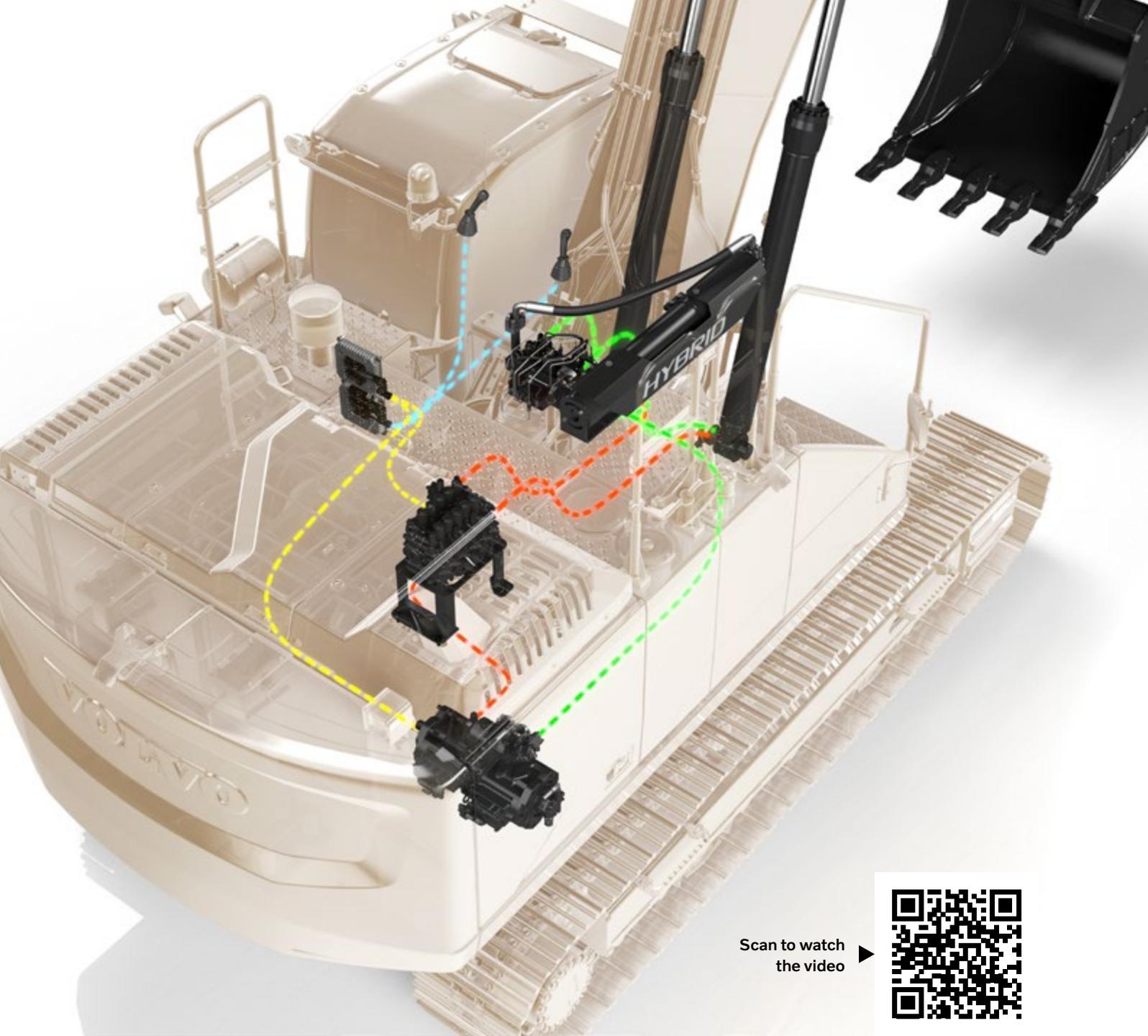
Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

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



Simple solution, big savings

Introducing the upgraded EC300E Hybrid. Featuring unique hydraulic hybrid Volvo technology, the excavator utilizes the boom down motion to charge the accumulator, with the stored energy used to drive the assist motor, which powers the engine system.

The result is up to 17%* increase in fuel efficiency while delivering all the power and performance you would expect from a conventional EC300E.

*Efficiency and savings may vary based on operator, application and conditions.



17%
greater fuel
efficiency*



15%
lower fuel
consumption*



15%
reduction in CO₂
emissions*



100%
Volvo engineered
hydraulic hybrid



Simply reliable

The uncomplicated and reliable hybrid solution is easy to maintain and consists of just a handful of add-on components, meaning no disruption or complication to how the high performing EC300E is engineered.

Cleaner and greener

The EC300E Hybrid reduces CO₂ emissions by up to 15%* making it a more environmentally respectful choice, especially when working in built-up areas.

Rapid payback

When working in dig and dump applications, the EC300E Hybrid is a straightforward solution with fast payback. Save fuel, lower emissions and boost the profitability of your operation.

EC300E Hybrid 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) | 188 (252) |
| Gross, ISO 14396/SAE J1995 | kW (hp) | 189 (253) |
| Max torque | Nm (ft lbf) | 1,290 (951.5) |
| at engine speed | r/min (r/s) | 1,400 (23.3) |
| No. of cylinders | | 6 |
| Displacement | l (in ³) | 7.7 (469.9) |
| Bore | mm (in) | 110 (4.3) |
| Stroke | mm (in) | 135 (5.3) |

Hybrid

The uncomplicated and reliable hybrid solution, Volvo's novel hydraulic hybrid harvests 'free' energy generated by the down motion of the excavator's boom and uses it to supercharge the engine system. The powerful and regular boom-down motions charge the 20 litre hydraulic accumulator (5.3 gallon), which then delivers energy to drive the hydraulic assist motor that helps to power the engine system. There are the same levels of controllability and performance as the standard EC300E, including the ability to work in ECO mode and Hybrid mode simultaneously.

Accumulator

| | | |
|--------------------|---------|----------|
| No. of accumulator | | 1 |
| Displacement | l (gal) | 20 (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 / 120 |
| 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 50 |
| Link pitch | mm (in) | 203.2 (7.9) |
| 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) | 700 (27.6) |
| Bottom rollers | | 2 x 9 |
| Top rollers | | 2 x 2 |

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.

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 |
| Max. slew torque | kNm (ft lbf) | 114.8 (84,672) |

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) | 248 (55,752.6) |
| Max. travel speed (low) | km/h (mi/h) | 3.6 (2.2) |
| Max. travel speed (high) | km/h (mi/h) | 5.4 (3.4) |
| Gradeability | ° | 35 |

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 |

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 276 (2 x 72.9) |
|--------------|-----------------|--------------------|

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 (5,264.9) |
| Slew circuit | MPa (psi) | 28.9 (4,191.6) |
| Pilot circuit | MPa (psi) | 3.9 (565.6) |

Hydraulic Motors

Travel: Variable displacement axial piston motor with mechanical brake

Swing: Fixed displacement piston motor with mechanical brake

Hydraulic Cylinders

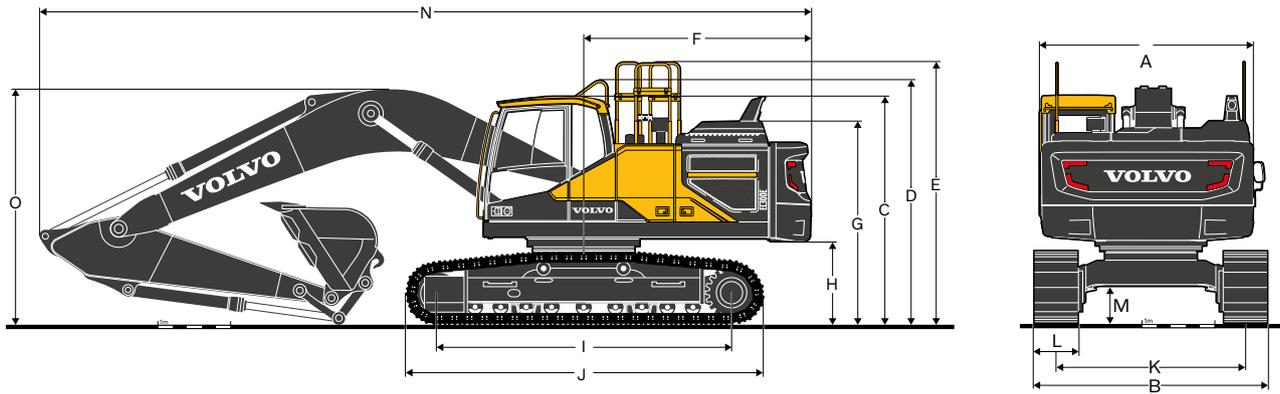
| | | |
|---------------|-----------------|--------------------------|
| Mono boom | | 2 |
| Bore x Stroke | ø x mm (ø x in) | 140 x 1 480 (5.5 x 58.3) |
| Arm | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 150 x 1 745 (5.9 x 68.7) |
| Bucket | | 1 |
| Bore x Stroke | ø x mm (ø x in) | 140 x 1 140 (5.5 x 44.9) |

Service Refill

| | | |
|-------------------------|---------|-----------------|
| Fuel tank | l (gal) | 472 (124.7) |
| DEF/AdBlue® tank | l (gal) | 50 (13.2) |
| 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 (11.6) |
| Slew reduction unit | l (gal) | 6.1 (1.6) |
| Travel reduction unit | l (gal) | 2 x 6 (2 x 1.6) |



Specifications

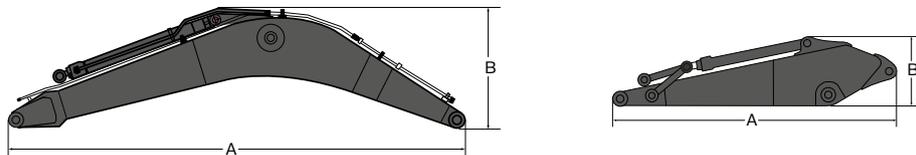


DIMENSIONS

| Description | Unit | | EC300EL Hybrid | | | | | |
|---|----------|-------|----------------|--------|--------|-------|--------|-------|
| | m, ft in | | 6.2, 20'4" | | | | | |
| Boom | | | | | | | | |
| Arm | | | | | | | | |
| A. Overall width of upper structure | mm | ft in | 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" |
| C. Overall height of cab | mm | ft in | 3,110 | 10'2" | 3,110 | 10'2" | 3,110 | 10'2" |
| D. Overall height of handrail | mm | ft in | 3,360 | 11'0" | 3,360 | 11'0" | 3,360 | 11'0" |
| E. Overall height of guardrail (Unfolded) | mm | ft in | 3,570 | 11'9" | 3,570 | 11'9" | 3,570 | 11'9" |
| E'. Overall height of handrail/guardrail (Folded) | mm | ft in | 3,090 | 10'2" | 3,090 | 10'2" | 3,090 | 10'2" |
| F. Tail swing radius | mm | ft in | 3,120 | 10'3" | 3,120 | 10'3" | 3,120 | 10'3" |
| G. Overall height of diffuser | mm | ft in | 3,200 | 10'6" | 3,200 | 10'6" | 3,200 | 10'6" |
| H. Counterweight clearance * | mm | ft in | 1,105 | 3'8" | 1,105 | 3'8" | 1,105 | 3'8" |
| I. Tumbler length | mm | ft in | 4,015 | 13'2" | 4,015 | 13'2" | 4,015 | 13'2" |
| J. Track length | mm | ft in | 4,865 | 16'0" | 4,865 | 16'0" | 4,865 | 16'0" |
| K. Track gauge | mm | ft in | 2,590 | 8'6" | 2,590 | 8'6" | 2,590 | 8'6" |
| L. Shoe width | mm | ft in | 600 | 24" | 600 | 24" | 600 | 24" |
| M. Min. ground clearance * | mm | ft in | 475 | 1'7" | 475 | 1'7" | 475 | 1'7" |
| N. Overall length | mm | ft in | 10,605 | 34'10" | 10,500 | 34'5" | 10,540 | 34'7" |
| O. Overall height of boom | mm | ft in | 3,470 | 11'5" | 3,345 | 11'0" | 3,580 | 11'9" |

* Without shoe grouser

' 2-piece boom



DIMENSIONS

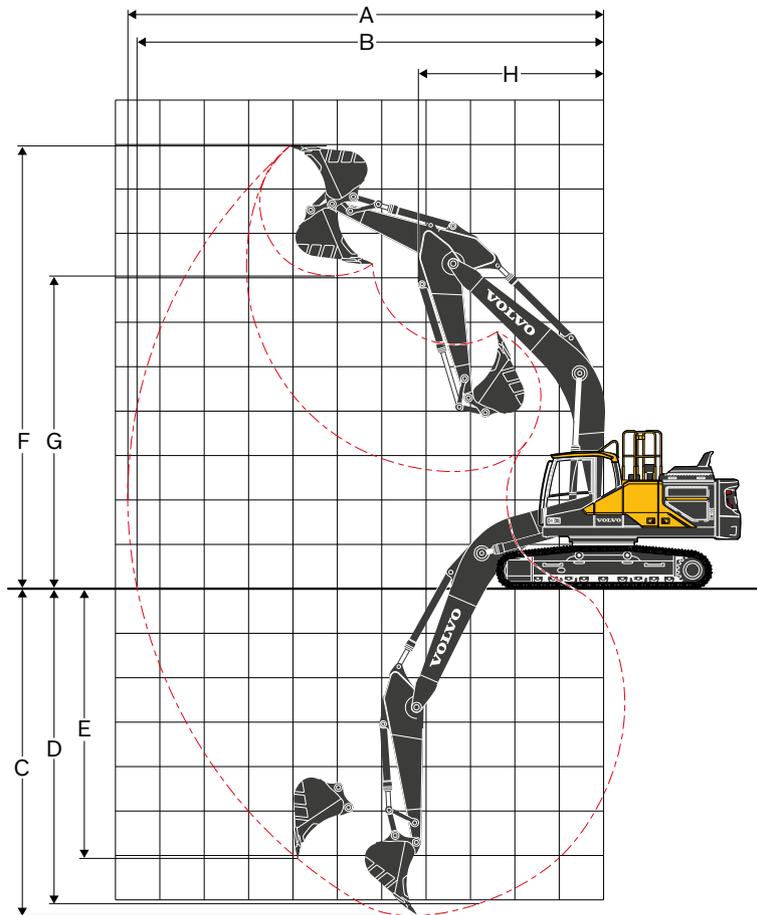
| Description | Unit | | mono | | | |
|---------------|----------|-------|---------------|-------|---------------|-------|
| | m, ft in | | 6.2, 20'4" GP | | 6.2, 20'4" HD | |
| Length | mm | ft in | 6,425 | 21'1" | 6,425 | 21'1" |
| Height - Hose | mm | ft in | 1,780 | 5'10" | 1,780 | 5'10" |
| Height - Pipe | mm | ft in | 1,665 | 5'6" | 1,665 | 5'6" |
| Width | mm | ft in | 765 | 2'6" | 765 | 2'6" |
| Weight | kg | lb | 2,505 | 5,520 | 2,735 | 6,030 |

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

| Description | Unit | | 2.55, 8'4" HD | | 3.05, 10'0" GP | | 3.05, 10'0" HD | | 3.7, 12'2" GP | |
|-------------|----------|-------|---------------|-------|----------------|-------|----------------|-------|---------------|-------|
| | m, ft in | | | | | | | | | |
| Length | mm | ft in | 3,720 | 12'2" | 4,145 | 13'7" | 4,145 | 13'7" | 4,800 | 15'9" |
| Height | mm | ft in | 1,005 | 3'4" | 1,010 | 3'4" | 1,010 | 3'4" | 1,005 | 3'4" |
| Width | mm | ft in | 560 | 1'10" | 560 | 1'10" | 560 | 1'10" | 560 | 1'10" |
| Weight | kg | lb | 1,450 | 3,200 | 1,510 | 3,330 | 1,570 | 3,460 | 1,630 | 3,590 |

* Includes cylinder, linkage and pin

MACHINE WITH MONO BOOM



WORKING RANGES

| Description | Unit | | EC300EL Hybrid | | | | | |
|---|----------|-------|-----------------|--------|--------|--------|--------|--------|
| | m, ft in | | 6.2, 20'4" mono | | | | | |
| Arm | m | ft in | 2.55 | 8'4" | 3.05 | 10'0" | 3.7 | 12'2" |
| A. Max. digging reach | mm | ft in | 10,180 | 33'5" | 10,710 | 35'2" | 11,310 | 37'1" |
| B. Max. digging reach on ground | mm | ft in | 9,970 | 32'9" | 10,520 | 34'6" | 11,130 | 36'6" |
| C. Max. digging depth | mm | ft in | 6,840 | 22'5" | 7,340 | 24'1" | 7,990 | 26'3" |
| D. Max. digging depth (l = 2.44 m / 8'0" level) | mm | ft in | 6,600 | 21'8" | 7,150 | 23'5" | 7,830 | 25'8" |
| E. Max. vertical wall digging depth | mm | ft in | 5,320 | 17'5" | 6,080 | 19'11" | 6,680 | 21'11" |
| F. Max. cutting height | mm | ft in | 9,560 | 31'4" | 9,980 | 32'9" | 10,260 | 33'8" |
| G. Max. dumping height | mm | ft in | 6,680 | 21'11" | 7,040 | 23'1" | 7,330 | 24'1" |
| H. Min. front swing radius | mm | ft in | 4,220 | 13'10" | 4,180 | 13'9" | 4,240 | 13'11" |

DIGGING FORCES WITH DIRECT FIT BUCKET

| Bucket radius | | | mm | in | 1,624 | 64" | 1,624 | 64" | 1,624 | 64" |
|----------------|--------|-----------|-------------|----|-------|--------|--------|--------|--------|--------|
| Breakout force | Normal | SAE J1179 | kN | lb | 165 | 37,050 | 165 | 37,050 | 165 | 37,040 |
| | | | Power boost | kN | lb | 179 | 40,320 | 179 | 40,320 | 179 |
| | Normal | ISO 6015 | kN | lb | 190 | 42,680 | 190 | 42,680 | 190 | 42,670 |
| | | | Power boost | kN | lb | 207 | 46,450 | 207 | 46,450 | 207 |
| Tearout force | Normal | SAE J1179 | kN | lb | 158 | 35,500 | 133 | 29,790 | 116 | 26,090 |
| | | | Power boost | kN | lb | 172 | 38,630 | 144 | 32,420 | 126 |
| | Normal | ISO 6015 | kN | lb | 163 | 36,580 | 136 | 30,550 | 118 | 26,630 |
| | | | Power boost | kN | lb | 177 | 39,810 | 148 | 33,250 | 129 |

Rotation angle, bucket

°

179

179

179

Specifications

MACHINE WEIGHTS AND GROUND PRESSURE

| Description | Shoe width | | Operating weight | | Ground pressure | | Overall width | |
|-----------------------|------------|----|--|--------|-----------------|-----|---------------|--------|
| | mm | in | kg | lb | kPa | psi | mm | in |
| EC300EL Hybrid | | | | | | | | |
| | | | 6.2 m (20'4") boom (GP), 3.05 m (10'0") arm (GP), 1,209 kg (2,670 lb) / 1.32 m³ (349 gal) bucket, 6,200 kg (13,670 lb) counterweight | | | | | |
| Triple grouser | 600 | 24 | 31,120 | 68,620 | 60.0 | 8.7 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 31,340 | 69,100 | 60.5 | 8.8 | 3,190 | 10'6" |
| | 700 | 28 | 31,710 | 69,920 | 52.4 | 7.6 | 3,290 | 10'10" |
| | 800 | 31 | 32,070 | 70,710 | 46.4 | 6.7 | 3,390 | 11'1" |
| | 900 | 35 | 32,430 | 71,510 | 41.7 | 6.0 | 3,490 | 11'5" |
| Double grouser | 700 | 28 | 31,900 | 70,340 | 52.8 | 7.6 | 3,290 | 10'10" |
| | | | 6.2 m (20'4") boom (HD), 3.05 m (10'0") arm (HD), 1,209 kg (2,670 lb) / 1.32 m³ (349 gal) bucket, 6,200 kg (13,670 lb) counterweight | | | | | |
| Triple grouser | 600 | 24 | 31,420 | 69,280 | 60.6 | 8.8 | 3,190 | 10'6" |
| | 600 (HD) | 24 | 31,630 | 69,740 | 61.0 | 8.8 | 3,190 | 10'6" |
| | 700 | 28 | 32,000 | 70,560 | 52.9 | 7.7 | 3,290 | 10'10" |
| | 800 | 31 | 32,360 | 71,350 | 46.8 | 6.8 | 3,390 | 11'1" |
| | 900 | 35 | 32,720 | 72,150 | 42.1 | 6.1 | 3,490 | 11'5" |
| Double grouser | 700 | 28 | 32,190 | 70,980 | 53.2 | 7.7 | 3,290 | 10'10" |

BUCKET SELECTION GUIDE

| Bucket type | Capacity | | Cutting width | | Weight | | Teeth | EC300EL Hybrid | | | |
|-----------------------------------|-----------------------|-----------------|---------------|-------|--------|-------|-------|---|----------------|---------------|---|
| | | | | | | | | 600 mm (24") shoe, 6,200 kg (13,670 lb) counterweight | | | |
| | 6.2 m (20'4") GP Boom | | | | | | | | | | |
| | L | yd ³ | mm | in | kg | lb | EA | 2.55 m (8'4") | 3.05 m (10'0") | 3.7 m (12'2") | |
| Direct fit bucket | General purpose | 550 | 0.72 | 600 | 23.6 | 883 | 1,946 | 3 | C | C | C |
| | | 660 | 0.86 | 750 | 29.5 | 867 | 1,912 | 3 | C | C | C |
| | | 770 | 1.01 | 900 | 35.4 | 996 | 2,197 | 4 | C | C | C |
| | | 950 | 1.24 | 1,090 | 42.9 | 1,025 | 2,260 | 4 | C | C | C |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,192 | 2,629 | 5 | C | C | C |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,209 | 2,666 | 5 | C | C | C |
| | | 1,450 | 1.90 | 1,490 | 58.7 | 1,270 | 2,799 | 5 | C | C | C |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,314 | 2,897 | 5 | C | C | C |
| | | 1,760 | 2.30 | 1,740 | 68.5 | 1,448 | 3,193 | 6 | C | C | B |
| | 1,930 | 2.52 | 1,840 | 72.4 | 1,529 | 3,370 | 6 | C | C | B | |
| | 2,060 | 2.69 | 1,950 | 76.8 | 1,590 | 3,506 | 6 | C | B | A | |
| | Heavy duty | 550 | 0.72 | 600 | 23.6 | 881 | 1,942 | 3 | D | D | D |
| | | 660 | 0.86 | 750 | 29.5 | 920 | 2,029 | 3 | D | D | D |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,214 | 2,677 | 5 | D | D | D |
| | | 1,270 | 1.66 | 1,405 | 55.3 | 1,336 | 2,945 | 5 | D | D | D |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,301 | 2,868 | 5 | D | D | D |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,387 | 3,058 | 5 | D | D | D |
| | | 1,690 | 2.21 | 1,690 | 66.5 | 1,485 | 3,274 | 5 | D | D | B |
| 1,930 | | 2.52 | 1,840 | 72.4 | 1,623 | 3,578 | 6 | C | B | A | |
| 2,060 | | 2.69 | 1,950 | 76.8 | 1,590 | 3,506 | 6 | B | A | X | |
| Direct fit bucket (UQC interface) | General purpose | 550 | 0.72 | 600 | 23.6 | 883 | 1,946 | 3 | C | C | C |
| | | 660 | 0.86 | 750 | 29.5 | 867 | 1,912 | 3 | C | C | C |
| | | 770 | 1.01 | 900 | 35.4 | 996 | 2,197 | 4 | C | C | C |
| | | 950 | 1.24 | 1,090 | 42.9 | 1,025 | 2,260 | 4 | C | C | C |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,192 | 2,629 | 5 | C | C | C |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,209 | 2,666 | 5 | C | C | C |
| | | 1,450 | 1.90 | 1,490 | 58.7 | 1,270 | 2,799 | 5 | C | C | C |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,314 | 2,897 | 5 | C | C | B |
| | | 1,760 | 2.30 | 1,740 | 68.5 | 1,448 | 3,193 | 6 | C | B | A |
| | 1,930 | 2.52 | 1,840 | 72.4 | 1,529 | 3,370 | 6 | B | B | A | |
| | 2,060 | 2.69 | 1,950 | 76.8 | 1,590 | 3,506 | 6 | B | A | X | |
| | Heavy duty | 550 | 0.72 | 600 | 23.6 | 881 | 1,942 | 3 | D | D | D |
| | | 660 | 0.86 | 750 | 29.5 | 920 | 2,029 | 3 | D | D | D |
| | | 1,140 | 1.49 | 1,240 | 48.8 | 1,214 | 2,677 | 5 | D | D | D |
| | | 1,320 | 1.73 | 1,390 | 54.7 | 1,301 | 2,868 | 5 | D | D | C |
| | | 1,510 | 1.98 | 1,540 | 60.6 | 1,387 | 3,058 | 5 | D | D | B |
| | | 1,690 | 2.21 | 1,690 | 66.5 | 1,485 | 3,274 | 5 | D | B | A |
| | | 1,930 | 2.52 | 1,840 | 72.4 | 1,623 | 3,578 | 6 | B | A | X |
| 2,060 | | 2.69 | 1,950 | 76.8 | 1,590 | 3,506 | 6 | B | A | X | |
| 2,060 | | 2.69 | 1,950 | 76.8 | 1,590 | 3,506 | 6 | B | A | X | |

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 material density | | | |
|--------------------------|-------------------|--------------------|--|
| | kg/m ³ | lb/yd ³ | |
| 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 EC300EL Hybrid

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 : 6.2 m, 20'34" Arm : 2.55 m, 8'4" Shoe : 600 mm, 24" CWT : 6,200 kg, 13,670 lb | 7.5 m kg | | | | | | | *7,740 | *7,740 | | | | | *7,900 | 7,640 | 6.52 m |
| | 25 ft lb | | | | | | | *17,180 | *17,180 | | | | | *17,450 | 17,300 | 21.04 ft |
| | 6.0 m kg | | | | | | | *8,080 | *8,080 | *7,890 | 6,040 | | | *7,900 | 5,970 | 7.55 m |
| | 20 ft lb | | | | | | | *17,660 | *17,660 | | | | | *17,420 | 13,320 | 24.60 ft |
| | 4.5 m kg | | | | | *11,410 | *11,410 | *9,190 | 8,330 | *8,220 | 5,930 | | | 7,940 | 5,160 | 8.18 m |
| | 15 ft lb | | | | | *24,500 | *24,500 | *19,940 | 17,970 | *17,970 | 12,770 | | | 17,600 | 11,440 | 26.76 ft |
| | 3.0 m kg | | | | | *14,580 | 11,950 | *10,630 | 7,930 | *8,890 | 5,740 | | | 7,370 | 4,760 | 8.50 m |
| | 10 ft lb | | | | | *31,310 | 25,820 | *23,000 | 17,120 | 19,250 | 12,390 | | | 16,280 | 10,520 | 27.86 ft |
| | 1.5 m kg | | | | | *16,750 | 11,340 | *11,900 | 7,590 | 8,740 | 5,570 | | | 7,220 | 4,630 | 8.54 m |
| | 5 ft lb | | | | | *36,130 | 24,460 | *25,760 | 16,380 | 18,830 | 12,020 | | | 15,910 | 10,220 | 28.01 ft |
| | 0 m kg | | | | | *17,340 | 11,140 | 12,030 | 7,390 | 8,610 | 5,450 | | | 7,440 | 4,750 | 8.31 m |
| | 0 ft lb | | | | | *37,580 | 23,990 | 25,890 | 15,940 | 18,560 | 11,770 | | | 16,410 | 10,480 | 27.25 ft |
| | -1.5 m kg | | | *12,880 | *12,880 | *16,910 | 11,150 | 11,970 | 7,340 | 8,590 | 5,430 | | | 8,170 | 5,190 | 7.78 m |
| | -5 ft lb | | | *29,370 | *29,370 | *36,700 | 24,000 | 25,760 | 15,830 | 18,530 | 11,740 | | | 18,050 | 11,470 | 25.48 ft |
| | -3.0 m kg | | | *21,080 | *21,080 | *15,540 | 11,310 | *11,740 | 7,430 | | | | | 9,850 | 6,200 | 6.88 m |
| | -10 ft lb | | | *45,790 | *45,790 | *33,640 | 24,350 | *25,310 | 16,040 | | | | | *21,770 | 13,770 | 22.46 ft |
| -4.5 m kg | | | *16,820 | *16,820 | *12,520 | 11,670 | | | | | | | *10,110 | 8,870 | 5.44 m | |
| -15 ft lb | | | *36,120 | *36,120 | *26,730 | 25,170 | | | | | | | *22,290 | 20,070 | 17.54 ft | |
| Boom : 6.2 m, 20'34" Arm : 3.05 m, 10'0" Shoe : 600 mm, 24" CWT : 6,200 kg, 13,670 lb | 7.5 m kg | | | | | | | | | | | | | *6,380 | *6,380 | 7.20 m |
| | 25 ft lb | | | | | | | | | | | | | *14,340 | *14,340 | 23.32 ft |
| | 6.0 m kg | | | | | | | | | *7,240 | 6,130 | | | *6,120 | 5,320 | 8.15 m |
| | 20 ft lb | | | | | | | | | *15,950 | 13,210 | | | *13,690 | 11,880 | 26.57 ft |
| | 4.5 m kg | | | | | *10,280 | *10,280 | *8,540 | 8,440 | *7,710 | 5,990 | | | *6,120 | 4,680 | 8.73 m |
| | 15 ft lb | | | | | *22,580 | *22,580 | *18,510 | 18,210 | *16,850 | 12,910 | | | *13,640 | 10,370 | 28.58 ft |
| | 3.0 m kg | | | | | *13,480 | 12,210 | *10,050 | 8,020 | *8,470 | 5,780 | *6,600 | 4,370 | *6,330 | 4,350 | 9.03 m |
| | 10 ft lb | | | | | *28,820 | 26,210 | *21,680 | 17,250 | *18,410 | 12,450 | | | *14,080 | 9,600 | 29.61 ft |
| | 1.5 m kg | | | | | *16,040 | 11,470 | *11,460 | 7,640 | 8,760 | 5,580 | 6,670 | 4,290 | 6,600 | 4,240 | 9.07 m |
| | 5 ft lb | | | | | *34,380 | 24,510 | *24,710 | 16,380 | 18,840 | 12,000 | | | 14,540 | 9,340 | 29.76 ft |
| | 0 m kg | | | | | *17,170 | 11,140 | 12,040 | 7,390 | 8,600 | 5,430 | | | 6,770 | 4,330 | 8.85 m |
| | 0 ft lb | | | | | *36,920 | 23,730 | 25,780 | 15,820 | 18,470 | 11,670 | | | 14,920 | 9,530 | 29.04 ft |
| | -1.5 m kg | *7,610 | *7,610 | *11,750 | *11,750 | *17,140 | 11,070 | 11,920 | 7,290 | 8,530 | 5,370 | | | 7,330 | 4,660 | 8.36 m |
| | -5 ft lb | *17,240 | *17,240 | *26,870 | *26,870 | *36,930 | 23,580 | 25,520 | 15,600 | 18,340 | 11,550 | | | 16,170 | 10,280 | 27.38 ft |
| | -3.0 m kg | *13,880 | *13,880 | *19,440 | *19,440 | *16,140 | 11,170 | 11,970 | 7,330 | 8,610 | 5,440 | | | 8,560 | 5,420 | 7.53 m |
| | -10 ft lb | *31,360 | *31,360 | *44,400 | *44,400 | *34,750 | 23,830 | 25,650 | 15,710 | | | | | 18,970 | 11,990 | 24.61 ft |
| -4.5 m kg | | | *18,990 | *18,990 | *13,800 | 11,450 | *10,080 | 7,560 | | | | | *9,460 | 7,180 | 6.24 m | |
| -15 ft lb | | | *40,570 | *40,570 | *29,460 | 24,520 | *21,200 | 16,310 | | | | | *20,800 | 16,080 | 20.23 ft | |
| Boom : 6.2 m, 20'34" Arm : 3.7 m, 12'2" Shoe : 600 mm, 24" CWT : 6,200 kg, 13,670 lb | 7.5 m kg | | | | | | | | | *6,290 | 6,220 | | | *4,930 | *4,930 | 7.96 m |
| | 25 ft lb | | | | | | | | | *12,940 | *12,940 | | | *10,930 | *10,930 | 25.82 ft |
| | 6.0 m kg | | | | | | | | | *6,390 | 6,170 | | | *4,750 | 4,660 | 8.82 m |
| | 20 ft lb | | | | | | | | | *14,060 | 13,270 | | | *10,490 | 10,370 | 28.78 ft |
| | 4.5 m kg | | | | | | | *7,580 | *7,580 | *6,980 | 6,010 | *6,390 | 4,450 | *4,750 | 4,150 | 9.36 m |
| | 15 ft lb | | | | | | | *16,450 | *16,450 | *15,260 | 12,940 | *12,690 | 9,550 | *10,460 | 9,190 | 30.64 ft |
| | 3.0 m kg | | | | | *11,960 | *11,960 | *9,180 | 8,110 | *7,840 | 5,790 | 6,740 | 4,350 | *4,900 | 3,880 | 9.64 m |
| | 10 ft lb | | | | | *25,720 | *25,720 | *19,870 | 17,490 | *17,060 | 12,470 | 14,510 | 9,350 | *10,780 | 8,560 | 31.60 ft |
| | 1.5 m kg | | | | | *14,940 | 11,680 | *10,770 | 7,690 | *8,730 | 5,560 | 6,620 | 4,230 | *5,200 | 3,780 | 9.67 m |
| | 5 ft lb | | | | | *32,220 | 25,180 | *23,320 | 16,580 | 18,840 | 11,990 | 14,250 | 9,110 | *11,460 | 8,340 | 31.74 ft |
| | 0 m kg | | | *6,730 | *6,730 | *16,680 | 11,190 | *11,960 | 7,380 | 8,550 | 5,380 | 6,520 | 4,140 | *5,730 | 3,840 | 9.47 m |
| | 0 ft lb | | | *15,390 | *15,390 | *36,090 | 24,100 | *25,910 | 15,920 | 18,410 | 11,600 | 14,040 | 8,920 | *12,630 | 8,480 | 31.07 ft |
| | -1.5 m kg | *6,940 | *6,940 | *10,930 | *10,930 | *17,190 | 11,010 | 11,870 | 7,220 | 8,440 | 5,280 | 6,480 | 4,100 | 6,470 | 4,100 | 9.01 m |
| | -5 ft lb | *15,520 | *15,520 | *24,780 | *24,780 | *37,250 | 23,700 | 25,510 | 15,570 | 18,170 | 11,390 | | | 14,290 | 9,050 | 29.53 ft |
| | -3.0 m kg | *11,570 | *11,570 | *16,550 | *16,550 | *16,670 | 11,030 | 11,840 | 7,200 | 8,440 | 5,280 | | | 7,370 | 4,650 | 8.25 m |
| | -10 ft lb | *25,970 | *25,970 | *37,550 | *37,550 | *36,120 | 23,750 | 25,460 | 15,530 | 18,190 | 11,400 | | | 16,340 | 10,320 | 26.98 ft |
| -4.5 m kg | *17,310 | *17,310 | *21,340 | *21,340 | *15,000 | 11,220 | *11,150 | 7,330 | | | | | *8,820 | 5,830 | 7.10 m | |
| -15 ft lb | *39,050 | *39,050 | *46,020 | *46,020 | *32,320 | 24,180 | *23,900 | 15,820 | | | | | *19,480 | 13,060 | 23.07 ft | |
| -6.0 m kg | | | *15,770 | *15,770 | *11,150 | 11,150 | | | | | | | *9,030 | *9,030 | 5.29 m | |
| -20 ft lb | | | *33,270 | *33,270 | *23,290 | 23,290 | | | | | | | *19,890 | *19,890 | 16.85 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 EC300EL Hybrid

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 : 6.2 m, 20'34" Arm : 2.55 m, 8'4" Shoe : 800 mm, 32" CWT : 6,200kg, 13,670 lb | 7.5 m kg | | | | | | | *7,700 | *7,700 | | | | | *7,860 | *7,860 | 6.52 m |
| | 25 ft lb | | | | | | | *17,100 | *17,100 | | | | | *17,360 | *17,360 | 21.04 ft |
| | 6.0 m kg | | | | | | | *8,040 | *8,040 | *7,840 | 6,240 | | | *7,850 | 6,170 | 7.55 m |
| | 20 ft lb | | | | | | | *17,570 | *17,570 | | | | | *17,300 | 13,780 | 24.60 ft |
| | 4.5 m kg | | | | | *11,350 | *11,350 | *9,140 | 8,620 | *8,160 | 6,130 | | | *7,990 | 5,340 | 8.18 m |
| | 15 ft lb | | | | | *24,370 | *24,370 | *19,820 | 18,590 | *17,850 | 13,210 | | | *17,610 | 11,830 | 26.76 ft |
| | 3.0 m kg | | | | | *14,480 | 12,350 | *10,560 | 8,190 | *8,820 | 5,940 | | | 7,660 | 4,920 | 8.50 m |
| | 10 ft lb | | | | | *31,090 | 26,680 | *22,840 | 17,690 | *19,200 | 12,810 | | | 16,910 | 10,870 | 27.86 ft |
| | 1.5 m kg | | | | | *16,620 | 11,700 | *11,810 | 7,840 | 9,080 | 5,750 | | | 7,490 | 4,790 | 8.54 m |
| | 5 ft lb | | | | | *35,850 | 25,240 | *25,560 | 16,920 | 19,560 | 12,420 | | | 16,530 | 10,560 | 28.01 ft |
| | 0 m kg | | | | | *17,200 | 11,490 | 12,490 | 7,630 | 8,940 | 5,630 | | | 7,730 | 4,910 | 8.31 m |
| | 0 ft lb | | | | | *37,270 | 24,740 | 26,870 | 16,460 | 19,270 | 12,150 | | | 17,040 | 10,830 | 27.25 ft |
| | -1.5 m kg | | | *12,880 | *12,880 | *16,770 | 11,490 | 12,420 | 7,570 | 8,920 | 5,610 | | | 8,480 | 5,360 | 7.78 m |
| | -5 ft lb | | | *29,370 | *29,370 | *36,390 | 24,740 | 26,720 | 16,330 | 19,230 | 12,120 | | | 18,740 | 11,840 | 25.48 ft |
| | -3.0 m kg | | | *20,880 | *20,880 | *15,400 | 11,660 | *11,630 | 7,660 | | | | | *9,770 | 6,400 | 6.88 m |
| | -10 ft lb | | | *45,350 | *45,350 | *33,340 | 25,100 | *25,080 | 16,550 | | | | | *21,570 | 14,210 | 22.46 ft |
| -4.5 m kg | | | *16,640 | *16,640 | *12,400 | 12,030 | | | | | | | *10,010 | 9,150 | 5.44 m | |
| -15 ft lb | | | *35,730 | *35,730 | *26,450 | 25,950 | | | | | | | *22,050 | 20,710 | 17.54 ft | |
| Boom : 6.2 m, 20'34" Arm : 3.05 m, 10'0" Shoe : 800 mm, 32" CWT : 6,200 kg, 13,670 lb | 7.5 m kg | | | | | | | | | | | | | *6,470 | *6,470 | 7.20 m |
| | 25 ft lb | | | | | | | | | | | | | *14,340 | *14,340 | 23.32 ft |
| | 6.0 m kg | | | | | | | | | *7,190 | 6,360 | | | *6,200 | 5,510 | 8.15 m |
| | 20 ft lb | | | | | | | | | *15,850 | 13,670 | | | *13,690 | 12,290 | 26.57 ft |
| | 4.5 m kg | | | | | *10,200 | *10,200 | *8,480 | *8,480 | *7,660 | 6,200 | | | *6,200 | 4,840 | 8.73 m |
| | 15 ft lb | | | | | | | *18,400 | *18,400 | *16,730 | 13,360 | | | *13,640 | 10,730 | 28.58 ft |
| | 3.0 m kg | | | | | *13,320 | 12,550 | *9,950 | 8,270 | *8,390 | 5,970 | *6,680 | 4,520 | *6,400 | 4,500 | 9.03 m |
| | 10 ft lb | | | | | *28,630 | 27,100 | *21,540 | 17,850 | *18,270 | 12,880 | | | *14,080 | 9,930 | 29.61 ft |
| | 1.5 m kg | | | | | *15,820 | 11,730 | *11,320 | 7,840 | 9,080 | 5,750 | 6,930 | 4,420 | *6,830 | 4,380 | 9.07 m |
| | 5 ft lb | | | | | *34,120 | 25,310 | *24,520 | 16,940 | 19,570 | 12,400 | | | *15,030 | 9,650 | 29.76 ft |
| | 0 m kg | | | | | *16,910 | 11,370 | *12,230 | 7,570 | 8,900 | 5,590 | | | 7,030 | 4,460 | 8.85 m |
| | 0 ft lb | | | | | *36,630 | 24,490 | *26,510 | 16,340 | 19,190 | 12,060 | | | 15,490 | 9,850 | 29.04 ft |
| | -1.5 m kg | *7,690 | *7,690 | *11,840 | *11,840 | *16,890 | 11,300 | 12,310 | 7,460 | 8,830 | 5,520 | | | 7,600 | 4,810 | 8.36 m |
| | -5 ft lb | *17,240 | *17,240 | *26,870 | *26,870 | *36,620 | 24,320 | 26,490 | 16,100 | 19,040 | 11,930 | | | 16,790 | 10,620 | 27.38 ft |
| | -3.0 m kg | *13,970 | *13,970 | *19,530 | *19,530 | *15,900 | 11,420 | *11,950 | 7,510 | 8,920 | 5,600 | | | 8,870 | 5,580 | 7.53 m |
| | -10 ft lb | *31,360 | *31,360 | *44,400 | *44,400 | *34,440 | 24,580 | *25,840 | 16,210 | | | | | 19,690 | 12,380 | 24.61 ft |
| -4.5 m kg | | | *18,650 | *18,650 | *13,580 | 11,730 | *9,940 | 7,770 | | | | | *9,330 | 7,380 | 6.24 m | |
| -15 ft lb | | | *40,150 | *40,150 | *29,170 | 25,300 | *20,990 | 16,840 | | | | | *20,590 | 16,600 | 20.23 ft | |
| Boom : 6.2 m, 20'34" Arm : 3.7 m, 12'2" Shoe : 800 mm, 32" CWT : 6,200 kg, 13,670 lb | 7.5 m kg | | | | | | | | | *6,260 | *6,260 | | | *4,930 | *4,930 | 7.96 m |
| | 25 ft lb | | | | | | | | | *12,940 | *12,940 | | | *10,930 | *10,930 | 25.82 ft |
| | 6.0 m kg | | | | | | | | | *6,350 | *6,350 | | | *4,750 | *4,750 | 8.82 m |
| | 20 ft lb | | | | | | | | | *13,980 | 13,760 | | | *10,490 | *10,490 | 28.78 ft |
| | 4.5 m kg | | | | | | | *7,540 | *7,540 | *6,940 | 6,230 | *6,390 | 4,610 | *4,750 | 4,300 | 9.36 m |
| | 15 ft lb | | | | | | | *16,370 | *16,370 | *15,160 | 13,410 | *12,690 | 9,890 | *10,460 | 9,520 | 30.64 ft |
| | 3.0 m kg | | | | | *11,890 | *11,890 | *9,120 | 8,390 | *7,780 | 5,990 | 7,020 | 4,500 | *4,900 | 4,010 | 9.64 m |
| | 10 ft lb | | | | | *25,580 | *25,580 | *19,750 | 18,100 | *16,940 | 12,920 | 15,100 | 9,680 | *10,780 | 8,870 | 31.60 ft |
| | 1.5 m kg | | | | | *14,830 | 12,070 | *10,690 | 7,950 | *8,670 | 5,760 | 6,880 | 4,380 | *5,200 | 3,910 | 9.67 m |
| | 5 ft lb | | | | | *31,990 | 26,010 | *23,150 | 17,150 | *18,830 | 12,410 | 14,820 | 9,430 | *11,460 | 8,630 | 31.74 ft |
| | 0 m kg | | | *6,730 | *6,730 | *16,550 | 11,550 | *11,860 | 7,630 | 8,890 | 5,570 | 6,780 | 4,280 | *5,730 | 3,980 | 9.47 m |
| | 0 ft lb | | | *15,390 | *15,390 | *35,800 | 24,880 | *25,700 | 16,450 | 19,140 | 12,000 | 14,600 | 9,230 | *12,630 | 8,770 | 31.07 ft |
| | -1.5 m kg | *6,940 | *6,940 | *10,930 | *10,930 | *17,040 | 11,360 | 12,320 | 7,460 | 8,770 | 5,460 | 6,710 | 4,240 | *6,590 | 4,240 | 9.01 m |
| | -5 ft lb | *15,520 | *15,520 | *24,780 | *24,780 | *36,940 | 24,450 | 26,480 | 16,080 | 18,880 | 11,770 | | | *14,580 | 9,360 | 29.53 ft |
| | -3.0 m kg | *11,570 | *11,570 | *16,550 | *16,550 | *16,530 | 11,380 | *12,260 | 7,430 | 8,760 | 5,450 | | | 7,660 | 4,810 | 8.25 m |
| | -10 ft lb | *25,970 | *25,970 | *37,550 | *37,550 | *35,800 | 24,490 | 26,430 | 16,030 | 18,890 | 11,780 | | | 16,970 | 10,660 | 26.98 ft |
| -4.5 m kg | *17,310 | *17,310 | *21,140 | *21,140 | *14,860 | 11,580 | *11,040 | 7,560 | | | | | *8,730 | 6,030 | 7.10 m | |
| -15 ft lb | *39,050 | *39,050 | *45,580 | *45,580 | *32,020 | 24,940 | *23,680 | 16,340 | | | | | *19,290 | 13,490 | 23.07 ft | |
| -6.0 m kg | | | *15,590 | *15,590 | *11,030 | *11,030 | | | | | | | *8,930 | *8,930 | 5.29 m | |
| -20 ft lb | | | *32,890 | *32,890 | *23,030 | *23,030 | | | | | | | *19,660 | *19,660 | 16.85 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 Tier 4 final requirements

Air filter with indicator

Air intake heater

Cyclone pre-cleaner

Electric engine shut-off

Fuel filter and water separator

Delayed engine shutdown

Alternator, 80 A

Hybrid

Accumulator, 20 l (5.3 gal)

Boom regeneration valves

Assist motor

Main pump with PTO

Electric / Electronic control system

Advanced mode control system

Self-diagnostic 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

High-capacity 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 anti-slip plates

Counterweight: 6,200 kg (13,670 lb)

Undercarriage

Undercover (heavy-duty)

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 anti-rebound valves

Boom and arm holding valves

Multi-stage filtering system

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, ISO VG 46

Quick coupler piping

STANDARD EQUIPMENT

Cab and interior

ROPS (ISO 12117-2) 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, all-weather sound suppressed, includes:

- Cup holders

- Door locks

- Tinted glass

- Floor mat

- Horn

- Large storage area

- Pull-up 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

800 mm (32") with triple grousers

Digging equipment

Linkage with lifting eye

Boom: 6.2 m (20'4") monoblock

Arm: 3.05 m (10'0")

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: 50 l/min (13.2 gpm), with automatic shut-off

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

Undercarriage

Full track guard

Track shoes

600/700/900 mm (24/28/36") with triple grousers

600 mm (24") HD with triple grousers

600/700 mm (24/28") with double grousers

High walker undercarriage

OPTIONAL EQUIPMENT

Hydraulic system

CDC, Comfort Driving Control

Hose rupture valve: boom

Overload warning device

Boom float function with HRV

Hydraulic piping:

- Slope & rotator

- Grapple

- Oil leak (drain) line

Volvo hydraulic quick coupler S2

Volvo hydraulic quick coupler U30 / U35

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

Hammer & shear, 1 pump flow

OPTIONAL EQUIPMENT

Cab and interior

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

Proportional joysticks with 3 switches

Digging equipment

Arm: 2.55 m (8'4") HD, 3.05 m (10'0") HD, 3.7 m (12'2")

Service

Tool kit, daily maintenance

Tool kit, full scale

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Deluxe seat



Reversible cooling fan



TiltRotator



Oil drain line



Swing out FOG



V O L V O