

55,830 – 57,750 lb, 168 hp

**VOLVO EXCAVATOR**

# EC240C



**MORE CARE. BUILT IN.**



# VOLVO – A PARTNER TO TRUST.

Most days you work by yourself in your machine. When you're in the Volvo EC240C Excavator, you are not alone. You've got a partner you can trust, backed by your local Volvo dealer and everything else that comes with the Volvo name. That means reliability, quality and a partner that will work as hard to keep you profitable as it did to earn your trust. With the Volvo EC240C, it also means industry-leading fuel economy, the best in comfort and legendary safety. Your new partner will help you take on the big jobs, excelling in land clearing, landfills, road building, pipe laying and more.

## **Your local partner around the globe**

Since 1927, Volvo has earned a global reputation for providing complete solutions. Volvo is built on core values of quality, safety and environmental care. The extensive line of construction equipment is augmented by Volvo's commercial transport solutions, including buses and trucks. This global experience and expertise have led to the ongoing development of engines with the lowest fuel consumption in their class. Today, the tradition continues with Volvo C-Series Excavators – designed and built to the exacting standards that make each machine a trusted Volvo partner.

## **Endurance through quality**

Quality. It's what you should expect from Volvo, and it's built in throughout the Volvo EC240C. Experience the Volvo difference, from the well-built cab details to the reinforced service doors to the rigid, long-life undercarriage.

If you have ever operated a Volvo Wheel Loader, Articulated Hauler or any of our machines, you know that Volvo is your edge for production, comfort and safety. Rely on the Volvo EC240C Excavator – every day.

## **Strength, protection, durability**

The Volvo EC240C's proven, long life booms and arms are ready for tough jobs

and tough conditions. We've designed it and tested it to deliver strength and day after day dependability. Count on Volvo to help your business grow with the capability you need. The standard machine configuration has a maximum digging reach of 10.3 m (33' 10") to a maximum depth of 7.0 m (23' 0").

## **Leading fuel efficiency is your edge**

One of the best ways to cut costs and increase profit is through fuel efficiency – and the EC240C is set to remain the industry leader that gets the most out of each tank. Volvo: your most fuel-efficient option.

## **Our experience – your work**

The Volvo EC240C Excavator is made for your work. From fast, 25-ton hauler loading and land clearing to civil engineering, landfill work and residential road building, the Volvo EC240C puts you in command.

## **The innovators of comfort**

Volvo has a reputation for innovation in comfort, helping customers get more done through less fatigue. The EC240C improves on Volvo innovation with a larger, more ergonomic work environment. Visibility is better. So are the seat, floor space and access to controls/switches.



• Volvo: a sign of trust and quality.



• Reinforced boom/arm handles the jobs.



• Ideal reach and lift capacity.



• Intelligent command means greater profits.



• Efficient Volvo engine delivers high torque at very low RPMs.

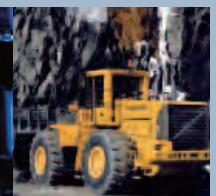
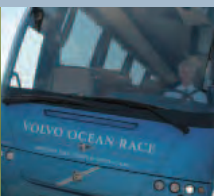
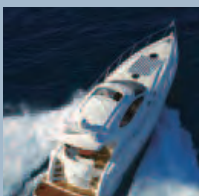
- Reliable, reinforced boom and arm handle a variety of jobs with ease.
- Fast cycle times while excavating, loading and lifting are a result of an ideal combination of capacity, reach and force.
- Volvo high-tech toughness puts you comfortably in command of greater profits.
- Powerful Volvo V-ACT engine delivers proven performance and industry-leading fuel efficiency through high torque at low revs.

## VOLVO'S ENGINE LEADERSHIP SPANS LAND, SEA, SKY AND SPACE

As the world's largest manufacturer of 9-to-18-liter diesel engines, Volvo has unmatched expertise designing power systems that move the world. Volvo engines for Volvo Construction Equipment, Volvo

Aero, Volvo Buses, Volvo Penta and Volvo Trucks define productivity and fuel economy. Our performance has been honed on land, over the sea, across the sky and into space. Leading research and development

keeps all Volvo Group products at the forefront of productivity. So when we say Volvo engines are tested — and proven — you can believe it. Trust in it. It's the real advantage of Volvo Power.



# VOLVO INNOVATION: RENEWED COMFORT AND SAFETY.

Volvo innovation never rests, so you can rest, and work, assured that the Volvo EC240C will provide you with the best in innovative, productivity-enhancing comfort and safety. It's just part of the many intelligent features that make Volvo excavators the industry leader. The Volvo EC240C features a larger, more spacious cab. The heating/cooling system is the best in the excavator industry. Monitor everything from the seat of comfort and safely take command of the jobsite with all-around visibility. The work keeps coming and you never rest. That's all right, because you're in the Volvo EC240C.

## **The Volvo comfortable cab experience**

More comfort leads to longer operation and increased productivity. And Volvo is the industry leader in comfort. The EC240C cab is wider. Pedal positions have been shifted forward for more foot space. The adjustable seat supports your whole body. Find the correct joystick, seat and pedal position with forward/reverse and up/down adjustments. The pressurized, well-insulated cab effectively blocks sound. To reduce hazardous vibration, Volvo has gone beyond emerging regulations with a cab suspension system that greatly reduces whole body vibration.

## **Intelligent, high-tech ventilation**

The EC240C is the ultimate modern work environment. Intelligently going beyond automobile technology, the EC240C's high-tech electronic climate control system comforts the entire body with the highest capacity heating and cooling ventilation system available in the excavator industry.

## **Safety protection**

The new-design Volvo Care Cab, with operator protective structure provides security. Controls, pedals and monitors have been ergonomically designed to ensure safe, long-term use. An optional

color rear view camera displaying on the LCD color monitor provides a safe view while swinging or traveling.

## **Anti-slip walk areas**

Outside the cab, all steps and platforms feature quality anti-slip traction with punched steel plates for superior grip – even when wet or icy. The bolt-on plates feature recessed bolts for less risk of trip hazard.

## **Commanding visibility**

Expansive glass improves all around visibility. Volvo listened to operators and greatly expanded upper visibility. The roof hatch offers an optimal view during high-reach applications. The gas strut assisted windshield opens easily, while the smartly positioned windshield wiper cleans a wider area – including both upper corners. The easy-to-read LCD color monitor offers real-time information.

## **In harmony with the environment**

More than 95% of the machine materials are recyclable. The EC240C Volvo engine produces greatly reduced external noise, for fewer disturbances. The machine's exterior paint is lead-free. Safely working in harmony with the people and environment around you is a core concern of Volvo.



• Experience the comfort of the suspension seat.



• Well-positioned LCD color monitor and controls.



• Greater floor space with larger pedals.



• Industry's highest heating/cooling capacity with 14 vents.

- Expansive glass and clear sight lines provide outstanding all-around visibility with greater safety.
- Experience the adjustable suspension seat and take command of the jobsite.
- Intelligent new, easy-to-read LCD color monitor and perfectly positioned controls.
- All-new cab is larger and more comfortable with ergonomic controls and vibration dampening suspension for all-day production.
- Electronic climate control system distributes comfort evenly with 14 air vents and the highest capacity heating and cooling available in the excavator industry.



# VOLVO STRENGTH. VOLVO ACCESS. YOUR RESULTS.

The end results, the finished job and the profits. That's what counts. And for the excavator that will help you get there the fastest, day after day, look to the Volvo EC240C. It's built for uptime with ease of service and complete access. It's built for power, performance and work by the truck load. And most importantly, it's built to deliver the kind of results you can literally take to the bank.

## Trusted Volvo engine

The EC240C has the power you demand. Experience a new strength with the proven Tier 3 compliant V-ACT (Volvo Advanced Combustion Technology) engine. It delivers 168 hp (125 kW) of optimized output with high engine torque at low revs, for ultra-efficient fuel consumption.

## Hydraulic innovation

The advanced hydraulic system aids production – with the boom, arm and swing priority you demand. It's also highly responsive, for control that allows you to know exactly what to expect when you touch the joystick. In-cab operator-selectable hydraulic flow and pressure increases ease of attachment use and performance.

## The smart way to remain cool

Fan speed is hydraulically (not engine) driven, intuitively sensing hydraulic oil/engine temperature and automatically activating to keep the system regulated at an optimized temperature. The result is less noise and lower fuel consumption. O-ring faced sealing is used in all hydraulic connections for added reliability. An anti-corrosive aluminium cooling module offers better heat dissipation and long life.

## Easy, complete service access

For uptime you can rely on, the Volvo EC240C has simplified service access. Ground level access makes inspection and service quick and easy. Change the oil, fuel and water separator filters, as well as drain the oil and access the hydraulic pump – all from the ground. Inside the cab, quickly perform self-diagnostics through the color LCD monitor.

## A better routine experience

Get the most out of each day with ease of routine maintenance. The cab air filter is conveniently located outside the cab for easy replacement. Fuses are sealed and protected in a ground-accessible, steel box behind the cab. The sloped track frame design reduces build up of mud and debris.

## Quick fit to be your edge

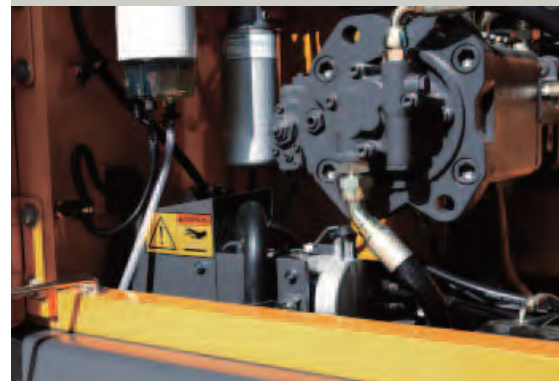
In addition to the proven S-Type quick fit, the new optional universal quick fit with a proven design makes it easy to change attachments. The Volvo edge offers increased bucket speed, optional float position and a wide range of working modes that let you match requirements to the application, attachment and terrain.

## Common parts stretch profit

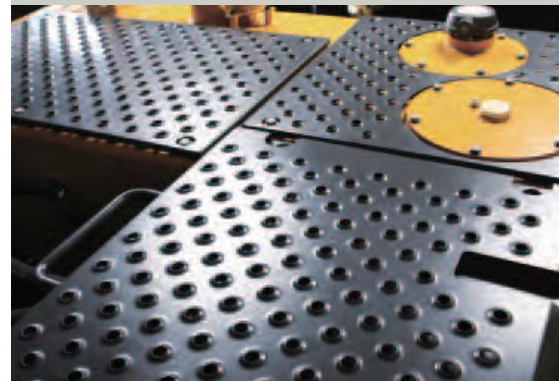
You'll appreciate ease of parts availability, lower operating costs and over 100 components and consumable parts common to other Volvo machines you may run.



• Simplified, ground level service access.



• Easy access for hydraulic pump filters.



• Safe, anti-slip steps and platforms.



• More care built in through quality.

- Simplified, ground level service access, long service intervals and centralized lubrication points mean more uptime.
- Quick and easy access to hydraulic pumps and filters.
- Anti-slip, punched steel platforms and walk areas offer superior grip and safety.
- Intelligent, advanced hydraulic system balances available engine power with hydraulic output for smooth, responsive control.
- More uptime from well-protected hydraulic lines and easy-access grease points.



# THE ENDURANCE FOR A DEMANDING WORLD.

Are the jobs getting any easier? Most owners and operators will say no. Each day you need to do more with your machine, lift extra weight, perform diverse jobs and operate in brutal conditions. It's a demanding business. That's why you need the Volvo EC240C. Reinforced booms and arms. Built-to-last tracks and undercarriage. Dependable hydraulics. It's built from top to bottom, inside and out with Volvo quality. Tough jobs and even tougher conditions? Bring it on. Demand the Volvo EC240C and get it done.

## **Volvo quality and value**

Volvo quality is something you can see and feel. From the rigid service doors, engine hood and protected electrical system to the strengthened, high-tensile steel undercarriage frames, and reinforced booms and arms, it's built to last. And with a reinforced superstructure with double welded corners and a load-bearing boom frame, it all adds up for a higher resale value.

## **A trusted track record**

The Volvo EC240C undercarriage and track are built for durability, reliability and stability. The lifetime greased, sealed track link prevents grease leaks, reduces noise and guarantees longevity. A reinforced idler bracket prevents opening and track link derailing. For stability, the EC240C features an increased tumbler length.

## **Smart and tough**

The Volvo EC240C isn't just tough; it's also intelligent and easy to operate. The machine's computer balances maximum available horsepower to hydraulic output, preventing engine overload – regardless of load on the pumps or engine speed. Volvo can do this because it's a Volvo engine, designed by Volvo engineers to specifically work with Volvo components.

## **Rely on your Volvo dealer for the support services you need:**

### **CareTrack helps track your machine**

CareTrack is an optional GPS monitoring program that works with the machine's diagnostic system. Installation is simple. You and your dealer can remotely track usage, productivity, fuel consumption and more. Maximize uptime through important service reminders. CareTrack also monitors geographic machine location and can even prevent unauthorized use. With CareTrack, you can focus on the care of your business while your Volvo dealer focuses on the care of your machine.

### **MATRIS gives you a full report**

MATRIS delivers detailed operating history analysis about the utilization and efficiency factors that influence your operating costs. MATRIS turns the data captured inside the machine's computer into easy-to-use graphs and reports. Check and correct operating techniques, reduce maintenance costs and increase service life.

### **PROSIS makes parts ordering faster**

PROSIS is a CD-ROM application that makes it quick and easy for your Volvo dealer to order all your Volvo CE product parts. Your dealer will help you find the right part, place your order and get you back up and running fast.







• Lifetime greased sealed track link.



• Your trust. Your satisfaction. Your edge.



• Optional protected arm with reinforced strip.



• Volvo is the partner you can grow with.

- Lifetime greased and sealed track link ensures long life.
- Your Volvo dealer is always there to help with parts, service and support.
- Optional protected arm with longer, reinforced strip and replaceable steel plates at both ends offers less wear and less expensive arm end maintenance.
- Reinforced, robotically-welded undercarriage frame distributes stress with rigid strength.
- Durable, standard undercover on the underside of the x-shaped frame provides extra protection.

# VOLVO OPTIONS. YOUR PROFIT EDGE.

Volvo is the standard in the excavator industry. And for the new standard in optional equipment, look no further than Volvo. Volvo offers plenty of options for your Volvo EC240C Excavator. Choose optional equipment that will enhance your protection, safety, comfort, productivity or operating efficiency. It's your choice, and it's your profit edge.

## **Hydraulic kits**

A wide variety of hydraulic kits are available for various boom and arm combinations. Each kit maximizes performance according to the machine's boom and arm length/shape. Get the most out of rotating/tilting attachments, crushers and hammers. Hydraulic flow is easily adjusted from the cab. Up to 20 presets can be saved.

## **Hydraulic quick fit**

A Volvo hydraulic quick fit makes changing attachments quick and easy – all from the comfort and safety of the cab. Different quick fit types (universal and S-type) are available to fit new and existing customers' buckets/attachments.

## **Wrist control joysticks - proportional control**

Low-effort, wrist control joysticks provide smooth, precision control for increased comfort, efficiency and production. Wrist control joysticks with proportional control switches are also available.

## **Operator seats**

Volvo offers a wide variety of ergonomic operator seats designed specifically for comfort and protection. All seats, from various adjustable models to the most advanced air-suspension models, provide excellent support and are individually adjustable to suit operator preferences.

## **FOG and FOPS cab protection**

For added safety and protection, FOG (Falling Object Guard) and FOPS (Falling Object Protective Structure) certified cabs provide peace-of-mind for tough conditions such as quarries and demolition. The front guard of the FOG unit is tiltable and supported

by a gas strut for easy front window cleaning. Both cab and frame-mounted FOG are available.

## **Straight travel pedal**

A pedal located by the left foot rest operates both travel motors at the same time, providing convenience when traveling and efficient work control in applications such as pipe laying.

## **Boom float function**

The boom float function lifts the boom over the ground without any pressure in the boom cylinders. Increases digging speed, cycle times and comfort of operation while working on rocky terrain. Reduces fuel consumption and wear. Effective for applications such as grading/finishing and grab work.

## **Extra work lights**

Extra work lights provide increased visibility, safety and precision, while extending the workday in low light conditions. Features two lights in the front of the machine, one light in the rear area of the cab and one light mounted on the counterweight.

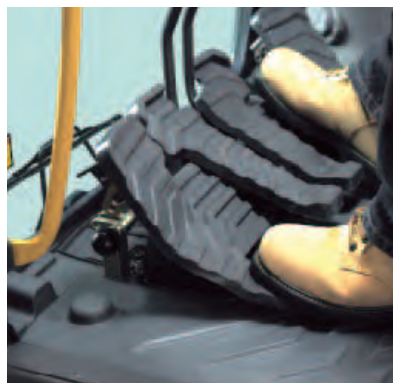
## **Rear view camera**

For improved safety on the jobsite, the manually-operated camera provides a clear rear view when reverse travel is selected or to the right hand side of the superstructure when the swing function is activated. A clear display is visible on the wide screen, color LCD of the IECU (Instrument Electronic Control Unit). The protected camera can be switched manually, using a selection switch on the keypad, to show either rear or side view.

**To customize your excavator with other optional equipment features to suit your application, contact your local Volvo dealer.**



# VOLVO OPTIONAL EQUIPMENT



**Hydraulic kits**

**Hydraulic quick fits**

**Wrist control joysticks  
- proportional control**

**Operator seats**

**FOG and FOPS cab protection**

**Straight travel pedal**

**Boom float function**

**Extra work lights**

**Rear view camera**

**NOTE:** Some features listed as optional equipment are standard equipment in some markets. Some equipment features listed are not available in all markets. Not a complete list of available optional equipment features. See included specification sheet for a complete listing.

# WALKAROUND. CLIMB IN. TAKE COMMAND.

## MORE SAFETY

- **The new-design Volvo Care Cab**, with operator protective structure provides security.
- **Anti-slip steps and platforms** with punched steel plates for superior grip even when wet or icy.
- **Low engine emission levels and low noise.**
- **Increased tumbler length** ensures stability.
- **Recessed bolts on superstructure** walk areas for less risk of trip hazard.
- **Lead-free exterior paint** is in harmony with the environment.

## MORE PROFIT

- **New generation Volvo V-ACT engine:** powerful, innovative and efficient.
- Volvo continues to deliver **industry-leading fuel efficiency.**
- **Advanced hydraulic system** with priority functions and optional float position.
- **Optional universal quick fit** increases versatility.

## MORE COMFORT

- **New larger, more comfortable cab** puts you in command with ergonomic controls.
- **Roomy, adjustable seat** supports your whole body.



- **Top-mounted windshield wiper** cleans a wider area – including both upper corners.
- **Vibration dampening** protects against whole body fatigue for all-day productivity.
- **Electronic climate control system** delivers the highest capacity heating and cooling available.



## MORE UPTIME

- **Simplified, ground level serviceability** means more uptime.
- **Easy access, centralized lubrication points.**
- **Easy-to-read LCD color monitor** for real-time information and trouble-shooting.
- **Easy to learn. Easy to operate.**  
**Easy to get more done.**

## MORE QUALITY

- **Strengthened undercarriage frame** endures daily abuse.
- **Reinforced boom/arm and proven components** deliver every time.
- **Reinforced superstructure** with double welded corners.
- **Lifetime greased, sealed track link** prevents leaks and guarantees long life.

# SPECIFICATIONS

## Engine

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions and maintain superior performance and fuel efficiency. The EPA Tier 3 compliant engine uses precise, high-pressure fuel injectors, turbo charger and air to air intercooler and electronic engine controls to optimize machine performance.

<b>Engine</b>	Volvo D7E EBE3
<b>Max. power, at</b>	30 r/s <b>1,800 r/min</b>
<b>Net (ISO 9249, SAE J1349)</b>	125 kW <b>168 hp</b>
<b>Gross (SAE J1995)</b>	138 kW <b>185 hp</b>
<b>Max. torque at 1,800 r/min</b>	870 Nm <b>642 lb.ft</b>
<b>No. of cylinders</b>	6
<b>Displacement</b>	7.14 l <b>436 cu.in</b>
<b>Bore</b>	108 mm <b>4.25"</b>
<b>Stroke</b>	130 mm <b>5.12"</b>

## 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.

<b>Voltage</b>	24 V
<b>Batteries</b>	2 x 12 V
<b>Battery capacity</b>	200 Ah
<b>Alternator</b>	28 V / 80 A

## Service refill capacities

<b>Fuel tank</b>	470 l	<b>124 gal</b>
<b>Hydraulic system, total</b>	320 l	<b>85 gal</b>
<b>Hydraulic tank</b>	195 l	<b>52 gal</b>
<b>Engine oil</b>	30 l	<b>8 gal</b>
<b>Engine coolant</b>	36 l	<b>10 gal</b>
<b>Swing reduction unit</b>	12 l	<b>3.2 gal</b>
<b>Travel reduction unit</b>	2 x 5.2 l	<b>2 x 1.4 gal</b>

## Swing system

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

<b>Max. swing speed</b>	11.4 r/min
<b>Max. swing torque</b>	85.6 kNm

## Drive

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

<b>Max. drawbar pull (tractive effort)</b>	209 kN	<b>46,960 lb</b>
<b>Max. travel speed</b>	3.2/5.5 km/h	<b>2.0/3.4 mph</b>
<b>Gradeability</b>	35°	<b>70%</b>

## Undercarriage

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

<b>Track pads</b>	2 x 51
<b>Link pitch</b>	190 mm <b>7.5</b>
<b>Shoe width, triple grouser</b>	600/700/800/900 mm <b>24"/28"/32"/36"</b>
<b>Shoe width, double grouser</b>	700 mm <b>28"</b>
<b>Bottom rollers</b>	2 x 9
<b>Top rollers</b>	2 x 2

## Hydraulic system

The hydraulic system, also known as the "Integrated work mode control" 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. The following important functions are included in the system:

**Summation system:** Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

**Boom priority:** Gives priority to the boom operation for faster raising when loading or performing deep excavations.

**Arm priority:** Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

**Swing priority:** Gives priority to swing functions for faster simultaneous operations.

**Regeneration system:** Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

**Power boost:** All digging and lifting forces are increased.

**Holding valves:** Boom and arm holding valves prevent the digging equipment from creeping.

## Main pump:

Type: 2 x variable displacement axial piston pumps  
Maximum flow: 2 x 230 l/min **2 x 61 gpm**

## Pilot pump:

Type: Gear pump  
Maximum flow: 20 l/min **5.3 gpm**

## Hydraulic motors:

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

## Relief valve setting:

Implement	31.4/34.3 Mpa	<b>4,550/4,980 psi</b>
Travel circuit	34.3 Mpa	<b>4,980 psi</b>
Swing circuit	26.5 Mpa	<b>3,840 psi</b>
Pilot circuit	3.9 Mpa	<b>570 psi</b>

## Hydraulic cylinders:

Boom	2	Bore x Stroke	ø135 x 1,345 mm	<b>ø5.3 x 53"</b>
Arm	1	Bore x Stroke	ø140 x 1,665 mm	<b>ø5.5 x 65.6"</b>
Bucket	1	Bore x Stroke	ø130 x 1,150 mm	<b>ø5.1 x 45.3"</b>
LR bucket	1	Bore x Stroke	ø100 x 865 mm	<b>ø3.9 x 34.1"</b>

## Cab

The new-design Volvo Care Cab, with operator protective structure provides security, along with more interior space, leg room and foot space. Audio system with remote control. 3 cup holders, 3 high-capacity outlets. Independently adjustable joystick consoles.

Excellent all around-visibility provided through maximum cab glass, transparent roof hatch and 2-piece sliding door window. The lift-up front windshield can easily be secured at the ceiling and the removable lower front glass can be stored in the side door. Interior lighting consists of one reading light and one cab light with timer.

The pressurized and filtered cab air is supplied by a 14-vent climate-control system, providing fast defrosting and high cooling and heating performance. Viscous/spring-mounted suspension cushions operator from vibrations.

Deluxe seat with adjustable height, tilt, recline, forward-back settings, retractable seat belt and selectable horizontal suspension for reduced whole body vibration.

Adjustable easy-to-read 6.4" LCD color monitor provides real time information of machine functions, important diagnostic information and a wide variety of work tool settings. LCD monitor is switchable to rear view camera monitor (option).

## Sound Level:

**Sound level in cab according to ISO 6396**  
..... LpA 71 dB(A)

**External sound level according to ISO 6395 and EU Directive 2000/14/EC**  
..... LwA 103 dB(A)

## Ground pressure

• **EC240C L** with 6.0 m, **19' 8"** boom, 2.97 m, **9' 9"** arm, 820 kg, **1,810 lb** bucket, 5,200 kg, **11,460 lb** counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm, <b>24"</b>	25,300 kg, <b>55,830 lb</b>	50.0 KPa, <b>7.3 psi</b>	3,190 mm, <b>10' 6"</b>
	700 mm, <b>28"</b>	25,600 kg, <b>56,470 lb</b>	43.4 KPa, <b>6.3 psi</b>	3,290 mm, <b>10' 10"</b>
	800 mm, <b>32"</b>	25,900 kg, <b>57,110 lb</b>	38.4 KPa, <b>5.6 psi</b>	3,390 mm, <b>11' 1"</b>
	900 mm, <b>36"</b>	26,200 kg, <b>57,750 lb</b>	34.5 KPa, <b>5.0 psi</b>	3,490 mm, <b>11' 5"</b>
Double grouser	700 mm, <b>28"</b>	26,000 kg, <b>57,260 lb</b>	44.0 KPa, <b>6.4 psi</b>	3,290 mm, <b>10' 10"</b>

• **EC240C LR** with 10.2 m, **33' 6"** boom, 7.85 m, **25' 9"** arm, 452 kg, **1,000 lb** bucket, 6,500 kg, **14,330 lb** counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	800 mm, <b>32"</b>	27,700 kg, <b>61,520 lb</b>	41.1 KPa, <b>6.0 psi</b>	3,390 mm, <b>11' 1"</b>

## Max. permitted buckets

- Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.  
 2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.  
 3. Bucket widths are less than bucket's tip radius.

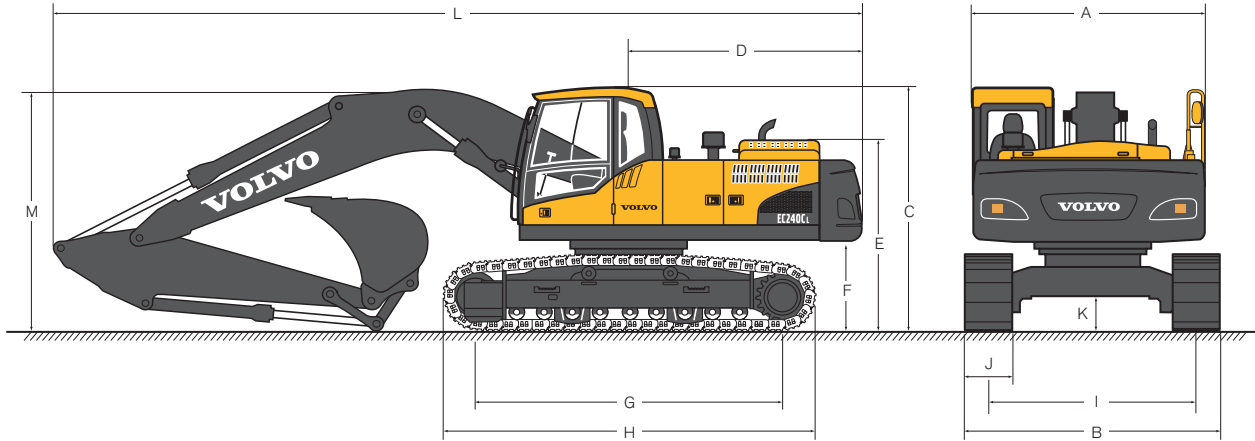
• **EC240C L** with **pin-on bucket**, 5,200 kg, **11,460 lb** counterweight

Description	Max. bucket volume / weight	6.0 m, <b>19' 8"</b> boom		
		2.5 m, <b>8' 2"</b> arm	2.97 m, <b>9' 9"</b> arm	3.6 m, <b>11' 10"</b> arm
GP bucket 1.5 t/m <sup>3</sup> , <b>2,530 lb/yd<sup>3</sup></b>	l/kg	1,825/1,550	1,650/1,400	1,450/1,225
	yd <sup>3</sup> /lb	<b>2.39/1,375</b>	<b>2.16/3,090</b>	<b>1.90/2,700</b>
GP bucket 1.8 t/m <sup>3</sup> , <b>3,030 lb/yd<sup>3</sup></b>	l/kg	1,600/1,375	1,450/1,250	1,300/1,100
	yd <sup>3</sup> /lb	<b>2.09/3,030</b>	<b>1.90/2,760</b>	<b>1.70/2,430</b>
HD bucket 1.8 t/m <sup>3</sup> , <b>3,030 lb/yd<sup>3</sup></b>	l/kg	1,525/1,525	1,375/1,375	1,225/1,225
	yd <sup>3</sup> /lb	<b>1.99/3,360</b>	<b>1.80/3,030</b>	<b>1.60/2,700</b>
HD bucket 2.0 t/m <sup>3</sup> , <b>3,370 lb/yd<sup>3</sup></b>	l/kg	1,425/1,425	1,300/1,300	1,150/1,150
	yd <sup>3</sup> /lb	<b>1.86/3,140</b>	<b>1.70/2,870</b>	<b>1.50/2,540</b>

• **EC240C L** with **quick fit bucket**, 5,200 kg, **11,460 lb** counterweight

Description	Max. bucket volume / weight	6.0 m, <b>19' 8"</b> boom		
		2.5 m, <b>8' 2"</b> arm	2.97 m, <b>9' 9"</b> arm	3.6 m, <b>11' 10"</b> arm
GP bucket 1.5 t/m <sup>3</sup> , <b>2,530 lb/yd<sup>3</sup></b>	l/kg	1,700/1,450	1,525/1,300	1,325/1,125
	yd <sup>3</sup> /lb	<b>2.22/3,200</b>	<b>1.99/2,870</b>	<b>1.73/2,480</b>
GP bucket 1.8 t/m <sup>3</sup> , <b>3,030 lb/yd<sup>3</sup></b>	l/kg	1,500/1,275	1,350/1,150	1,175/1,000
	yd <sup>3</sup> /lb	<b>1.96/2,810</b>	<b>1.77/2,540</b>	<b>1.54/2,200</b>
HD bucket 1.8 t/m <sup>3</sup> , <b>3,030 lb/yd<sup>3</sup></b>	l/kg	1,425/1,425	1,275/1,275	1,125/1,125
	yd <sup>3</sup> /lb	<b>1.86/3,140</b>	<b>1.67/2,810</b>	<b>1.47/2,480</b>
HD bucket 2.0 t/m <sup>3</sup> , <b>3,370 lb/yd<sup>3</sup></b>	l/kg	1,325/1,325	1,200/1,200	1,050/1,050
	yd <sup>3</sup> /lb	<b>1.73/2,920</b>	<b>1.57/2,650</b>	<b>1.37/2,310</b>

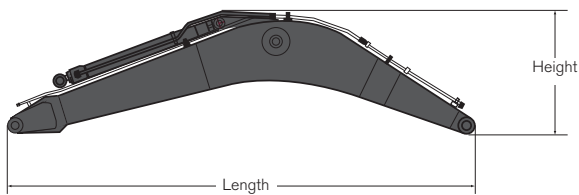
## Dimensions



Description		EC240C L			EC240C LR
		6.0 m, 19' 8" boom			10.2 m, 33' 6" boom
		2.5 m, 8' 2" arm	2.97 m, 9' 9" arm	3.6 m, 11' 10" arm	7.85 m, 25' 9" arm
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"
B. Overall width	mm, ft-in	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"
C. Overall height of cab	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
D. Tail swing radius	mm, ft-in	2,960, 9' 9"	2,960, 9' 9"	2,960, 9' 9"	3,000, 9' 10"
E. Overall height of engine hood	mm, ft-in	2,370, 7' 9"	2,370, 7' 9"	2,370, 7' 9"	2,370, 7' 9"
F. Counterweight clearance *	mm, ft-in	1,080, 3' 7"	1,080, 3' 7"	1,080, 3' 7"	1,080, 3' 7"
G. Tumbler length	mm, ft-in	3,850, 12' 8"	3,850, 12' 8"	3,850, 12' 8"	3,850, 12' 8"
H. Track length	mm, ft-in	4,650, 15' 3"	4,650, 15' 3"	4,650, 15' 3"	4,650, 15' 3"
I. Track gauge	mm, ft-in	2,590, 8' 6"	2,590, 8' 6"	2,590, 8' 6"	2,590, 8' 6"
J. Shoe width	mm, in	800, 32"	800, 32"	800, 32"	800, 32"
K. Min. ground clearance *	mm, ft-in	470, 1' 7"	470, 1' 7"	470, 1' 7"	480, 1' 7"
L. Overall length	mm, ft-in	10,220, 33' 6"	10,130, 33' 3"	10,195, 33' 5"	14,390, 47' 3"
M. Overall height of boom	mm, ft-in	3,220, 10' 7"	3,040, 10' 0"	3,220, 10' 7"	3,170, 10' 5"

\* Without shoe grouser

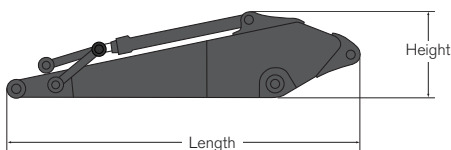
### • Boom



Description		6.0 m, 19' 8"		10.2 m, 33' 6"
		General Purpose	Heavy-duty	
Length	mm, ft-in	6,210, 20' 4"	6,210, 20' 4"	10,410, 34' 2"
Height	mm, ft-in	1,630, 5' 4"	1,630, 5' 4"	1,550, 5' 1"
Width	mm, ft-in	730, 2' 5"	730, 2' 5"	730, 2' 5"
Weight	kg, lb	2,040, 4,500	2,170, 4,780	2,830, 6,240

\* Includes arm cylinder, piping and pin

### • Arm

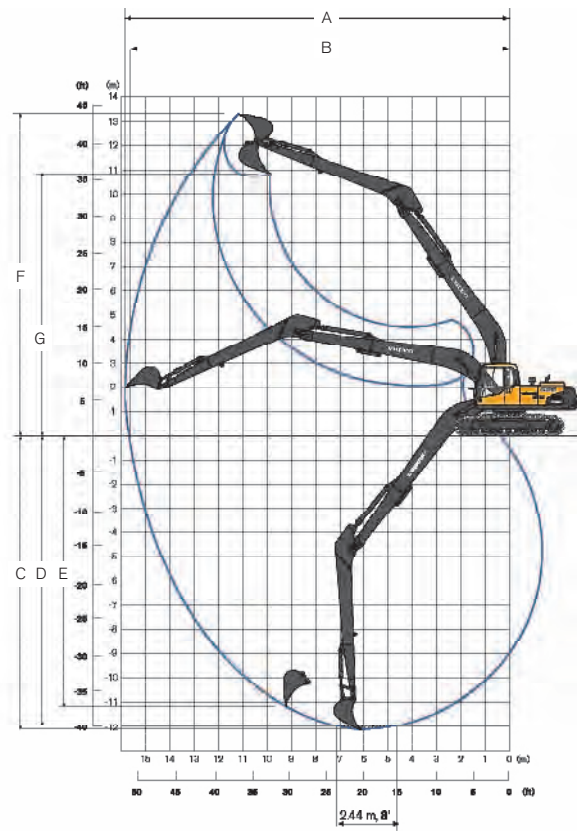
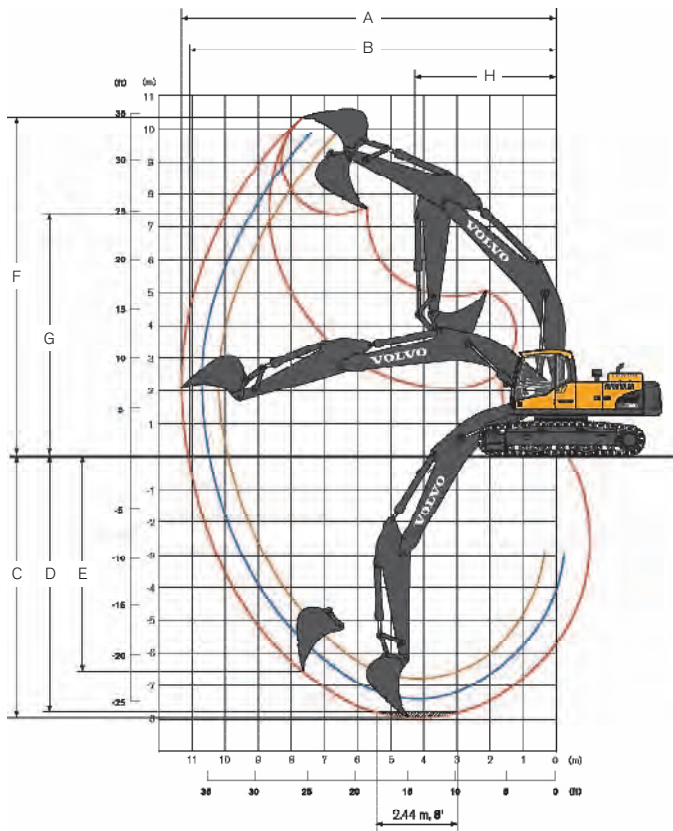


Description		2.5 m, 8' 2"	2.97 m, 9' 9"		3.6 m, 11' 10"	7.85 m, 25' 9"
			General Purpose	Heavy-duty		
Length	mm, ft-in	3,590, 11' 9"	4,060, 13' 4"	4,060, 13' 4"	4,730, 15' 6"	8,970, 29' 5"
Height	mm, ft-in	930, 3' 1"	920, 3' 0"	920, 3' 0"	920, 3' 0"	1,145, 3' 9"
Width	mm, ft-in	480, 1' 7"	480, 1' 7"	480, 1' 7"	480, 1' 7"	380, 1' 3"
Weight	kg, lb	1,235, 2,720	1,220, 2,690	1,300, 2,870	1,300, 2,870	1,520, 3,350

\* Includes bucket cylinder, linkage and pin



## Working ranges & digging force



Machine with pin-on bucket		6.0 m, 19' 8" boom			10.2 m, 33' 6" boom
		2.5 m, 8' 2" arm	2.97 m, 9' 9" arm	3.6 m, 11' 10" arm	7.85 m, 25' 9" arm
A. Max. digging reach	mm, ft-in	9,880, 32' 5"	10,260, 33' 8"	10,730, 35' 2"	18,307, 60' 0"
B. Max. digging reach on ground	mm, ft-in	9,690, 31' 9"	10,080, 33' 1"	10,560, 34' 8"	18,207, 59' 8"
C. Max. digging depth	mm, ft-in	6,500, 21' 4"	6,980, 22' 11"	7,600, 24' 11"	14,347, 47' 0"
D. Max. digging depth (8' level)	mm, ft-in	6,280, 20' 7"	6,740, 22' 1"	7,380, 24' 3"	14,233, 46' 8"
E. Max. vertical wall digging depth	mm, ft-in	5,730, 18' 10"	5,970, 19' 7"	6,720, 22' 1"	12,783, 41' 11"
F. Max. cutting height	mm, ft-in	9,620, 31' 7"	9,690, 31' 9"	9,660, 31' 8"	14,891, 48' 10"
G. Max. dumping height	mm, ft-in	6,700, 22' 0"	6,800, 22' 4"	6,820, 22' 5"	12,579, 41' 3"
H. Min. front swing radius	mm, ft-in	3,910, 12' 10"	3,890, 12' 9"	3,890, 12' 9"	—










Digging forces with pin-on bucket		6.0 m, 19' 8" boom			10.2 m, 33' 6" boom	
		2.5 m, 8' 2" arm	2.97 m, 9' 9" arm	3.6 m, 11' 10" arm	7.85 m, 25' 9" arm	
Bucket radius	mm, in	1,540, 61"	1,540, 61"	1,540, 61"	1,250, 49"	
Breakout force - bucket (Normal/Power boost)	SAE J1179	kN lb	143.2/156.9 32,190/35,280	143.2/156.9 32,190/35,280	143.2/156.9 32,190/35,280	68.6 15,440
	ISO 6015	kN lb	160.8/175.5 36,160/39,470	160.8/175.5 36,160/39,470	160.8/175.5 36,160/39,470	77.8 17,490
Tearout force - arm (Normal/Power boost)	SAE J1179	kN lb	125.2/137.0 28,160/30,800	108.8/118.7 24,480/26,680	97.1/105.9 21,830/23,810	44.1 9,920
	ISO 6015	kN lb	129.0/141.1 29,020/31,730	111.1/121.6 24,980/27,340	99.0/108.2 22,270/24,320	44.7 10,050
Rotation angle, bucket	deg.	177	177	177	179	

## 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 fit from the following values.

### • EC240C L

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	3.0 m, 10'		4.5 m, 15'		6.0 m, 20'		7.5 m, 25'		Max. reach								
																Max.		
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m/ft		
Boom 6.0 m, 19' 8" + Arm 2.5 m, 8' 2" + Shoe 800 mm, 32" + Counterweight 5,200 kg, 11,460 lb	7.5 m 25'							*6.4	*6.4					*6.5	*14,250	*6.5	*14,250	6.1/19.70
	6.0 m 20'							*6.4	*14,050	*6.4	*14,050							
	4.5 m 15'							*8.7	*18,660	*8.7	*18,660	*7.2	*15,660	7.0	14,870	*6.6	*14,500	5.0 10,510
	3.0 m 10'							*11.2	*24,080	10.2	21,530	*8.3	*18,060	6.7	14,200	*7.1	15,270	4.8 10,230
	1.5 m 5'							*13.2	*28,430	9.6	20,330	*9.4	*20,380	6.4	13,580	7.1	14,940	4.7 9,940
	0 m 0'							*13.9	*30,140	9.4	19,840	9.7	20,460	6.3	13,200	7.0	14,720	4.6 9,730
	-1.5 m -5'	*9.5	*21,690	*9.5	*21,690	*13.7	*29,790	9.4	19,800	9.7	20,330	6.2	13,080	7.0	14,790	4.5	9,770	6.2 13,460
-3.0 m -10'	*17.6	*38,110	*17.6	*38,110	*12.7	*27,520	9.5	20,060	*9.5	*20,480	6.3	13,260			*8.2	18,000	5.4 11,780	
-4.5 m -15'	*14.0	*30,120	*14.0	*30,120	*10.2	*21,790	9.8	20,750							*8.5	*18,770	7.9 17,440	
																		5.3/16.93
Boom 6.0 m, 19' 8" + Arm 2.97 m, 9' 9" + Shoe 800 mm, 32" + Counterweight 5,200 kg, 11,460 lb	7.5 m 25'																	
	6.0 m 20'																	
	4.5 m 15'																	
	3.0 m 10'																	
	1.5 m 5'																	
	0 m 0'		*10,530		*10,530	*13.8	*29,770	9.5	19,950	9.8	20,540	6.3	13,270	7.0	14,750	4.6	9,760	5.8 12,600
	-1.5 m -5'	*9.7	*22,050	*9.7	*22,050	*13.9	*30,120	9.4	19,770	9.7	20,320	6.2	13,070	7.0	14,650	4.6	9,660	6.3 13,680
-3.0 m -10'	*16.2	*36,780	*16.2	*36,780	*13.2	*28,540	9.5	19,930	9.7	20,400	6.2	13,140			7.5	16,190	4.9 10,650	
-4.5 m -15'	*15.7	*33,840	*15.7	*33,840	*11.3	*24,190	9.7	20,450							*8.4	*18,540	6.7 14,700	
																		5.8/18.89
Boom 6.0 m, 19' 8" + Arm 3.6 m, 11' 10" + Shoe 800 mm, 32" + Counterweight 5,200 kg, 11,460 lb	7.5 m 25'																	
	6.0 m 20'																	
	4.5 m 15'																	
	3.0 m 10'	*14.7	*31,290	*14.7	*31,290	*9.2	*19,790	*9.2	*19,790	*7.2	*15,680	6.9	14,620	*6.3	*13,730	5.0	10,450	*4.7
	1.5 m 5'																	
	0 m 0'	*6.4	*14,690	*6.4	*14,690	*13.2	*28,650	9.5	19,940	*9.5	*20,550	6.3	13,260	7.0	14,720	4.6	9,720	5.4 11,580
	-1.5 m -5'	*9.8	*22,260	*9.8	*22,260	*13.8	*29,920	9.3	19,550	9.6	20,190	6.1	12,940	6.9	14,520	4.5	9,530	5.8 12,410
-3.0 m -10'	*14.6	*33,040	*14.6	*33,040	*13.5	*29,260	9.3	19,570	9.6	20,150	6.1	12,900	6.9	14,550	4.5	9,560	6.6 14,310	
-4.5 m -15'	*17.5	*37,650	*17.5	*37,650	*12.2	*26,290	9.5	19,950	*9.0	*19,310	6.2	13,180			*8.1	*17,880	5.3 12,220	
-6.0 m -20'								*8.9	*8.9									4.5

### • EC240C LR

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	7.5 m, 25'		9.0 m, 30'		10.5 m, 35'		12.0 m, 40'		13.5 m, 45'		Max. reach								
																Max.				
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m/ft				
Boom 10.2 m, 33' 6" + Arm 7.85 m, 25' 9" + Shoe 800 mm, 32" + Counterweight 6,500 kg, 14,330 lb	13.5 m 45'														*0.9	*2,080	*0.9	*2,080	12.4/40.15	
	12.0 m 40'														*1.0	*1,940	*0.9	*1,940	13.7/44.49	
	10.5 m 35'														*1.6	*3,100	*1.6	*3,100	*0.8	*1,860
	9.0 m 30'														*1.9	*3,910	*1.9	*3,910	*0.8	*1,830
	7.5 m 25'														*2.1	*4,540	*2.1	*4,540	*0.8	*1,820
	6.0 m 20'														*2.3	*5,040	*2.3	*5,040	*2.2	*4,870
	4.5 m 15'														*2.5	*5,470	*2.5	*5,470	*2.4	*5,170
	3.0 m 10'	*4.0	*8,700	*4.0	*8,700	*3.4	*7,410	*3.4	*7,410	*3.0	*6,550	*3.0	*6,550	*2.7	*5,950	2.5	5,330	*2.5	*5,510	
	1.5 m 5'	*4.7	*10,190	4.7	10,150	*3.9	*8,400	3.6	7,820	*3.3	*7,240	2.9	6,190	*3.0	*6,440	2.3	4,980	*2.7	*5,870	
	0 m 0'	*5.3	*11,500	4.3	9,190	*4.3	*9,320	3.3	7,170	*3.6	*7,900	2.7	5,730	*3.2	*6,920	2.2	4,650	*2.9	*6,180	
	-1.5 m -5'	*5.8	*12,530	3.9	8,470	*4.7	*10,090	3.1	6,650	*3.9	*8,470	2.5	5,350	3.3	7,130	2.0	4,370	2.8	5,970	
	-3.0 m -10'	*6.1	*13,210	3.7	8,010	4.8	10,330	2.9	6,280	3.9	8,340	2.4	5,060	3.2	6,900	1.9	4,160	2.7	5,810	
	-4.5 m -15'	*6.1	*13,040	3.6	7,760	4.7	10,090	2.8	6,050	3.8	8,140	2.3	4,880	3.1	6,750	1.9	4,020	2.7	5,710	
-6.0 m -20'	6.0	12,950	3.6	7,670	4.6	9,980	2.8	5,950	3.7	8,050	2.2	4,790	3.1	6,690	1.8	3,960	2.6	5,680		
-7.5 m -25'	6.0	13,020	3.6	7,740	4.6	10,010	2.8	5,970	3.7	8,070	2.2	4,810	3.1	6,720	1.8	3,980	2.7	5,750		
-9.0 m -30'	*5.8	*12,590	3.7	7,930	4.7	10,160	2.8	6,110	3.8	8,200	2.3	4,930	3.2	6,860	1.9	4,120				
-10.5 m -35'	*5.3	*11,370	3.8	8,270	*4.4	*9,350	2.9	6,390	*3.6	*7,690	2.4	5,190					*2.5	*5,680		
-12.0 m -40'	*4.5	*9,350	4.1	8,810	*3.6	*7,490	3.2	6,880							*3.2	*7,090	2.8	6,570		

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

## STANDARD EQUIPMENT

### Engine

Turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EPA (Environmental Protection Agency) Tier 3 emission standards  
3-stage air filter with indicator and precleaner  
Intake air pre-heater  
Electric engine shut-off  
Fuel filter and water separator  
Alternator, 80 A

### Electric/Electronic control system

Contronics  
– Advanced mode control system  
– Self-diagnostic system  
Machine status indication  
Engine speed sensing power control  
Automatic idling system  
One-touch 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 2  
Travel alarm  
Batteries, 2 x 12 V / 200 Ah  
Start motor, 24 V / 5.5 kW

### Hydraulic system

Automatic sensing hydraulic system  
– Summation system  
– Boom priority  
– Arm priority  
– Swing priority  
Cab adjustment of auxiliary hydraulic pressure and flow

### Hydraulic piping:

– Hammer & shear: adjustable flow control  
– Quick fit piping  
Boom and arm regeneration valves  
Swing anti-rebound valves  
Boom and arm holding valves  
Multi-stage filtering system  
Boom cylinders (x2)  
Cylinder cushioning  
Cylinder contamination seals  
Auxiliary hydraulic valve  
Automatic two-speed travel motors  
Hydraulic oil, ISO VG 46

### Superstructure

Access way with handrail  
Full height counterweight:  
L: 5,200 kg, **11,460 lb**  
LR: 6,500 kg, **14,330 lb**  
Tool storage area  
Service walkway with anti-slip grating  
Undercover (heavy-duty 4.5 mm, **0.18"**)

### Cab and interior

Fabric seat with heater and air suspension  
2-button control for hammer/shear auxiliary hydraulics  
Control joysticks with 4 switches each  
Travel pedals with hand levers  
Pilot control pattern change  
Heater & air-conditioner, automatic  
Hydraulic dampening cab mounts  
Adjustable operator seat and joystick control console  
Hydraulic safety lock lever  
Cab, all-weather sound suppressed, includes:  
– Ashtray  
– Cup holder (x3)

– Lighter  
– Door locks  
– Tinted glass  
– Floor mat  
– Horn  
– Large storage area  
– Pull-up type front window  
– Removable lower windshield  
– Seat belt  
– Safety glass, light tinted  
– Sun shields, front, roof, rear  
– Windshield wiper with washer and intermittent feature  
– AM/FM stereo with cassette includes flexible antenna

Anti-vandalism kit assembly preparation  
Master key  
Opening top hatch

### Undercarriage

Hydraulic track adjusters  
Greased and sealed track link  
Track guard  
Undercover (4.5 mm, **0.18"**)  
Standard roller guard

### Track equipment

Track pads 800 mm, **32"** with triple grousers

### Digging equipment

Boom: 6.0 m, **19' 8"** general purpose  
Arm: 2.97 m, **9' 9"** heavy-duty without wear strips  
Centralized lubrication

### Service

Tool kit, daily maintenance

## OPTIONAL EQUIPMENT

### Engine

Block heater: 120 V  
Oil-bath pre-cleaner  
Diesel coolant heater, programmable  
Water separator with heater  
Fuel filler pump: 50 l/min, **13.2 gpm** with automatic shut-off

### Electric

Extra lights:  
– Cab front top-mounted 2  
– Cab rear-mounted 1  
– Counterweight-mounted 1  
Anti-theft system  
Rotating warning beacon

### Hydraulic system

Hose rupture valve: boom, arm  
Overload warning device  
Hydraulic piping:  
– Additional return filter  
– Slope & rotator

– Grapple  
– Oil leak (drain) line  
Volvo hydraulic quick fit, S1, S2 size  
Hydraulic oil, ISO VG 32  
Hydraulic oil, ISO VG 68  
Hydraulic oil, biodegradable 32  
Hydraulic oil, biodegradable 46  
Boom float function

### Cab and interior

Fabric seat  
Fabric seat with heater  
Control joystick with semi-long levers  
Control joystick with proportional control  
Falling object guard (FOG)  
– Frame-mounted  
– Cab-mounted  
Cab-mounted falling object protective structure (FOPS)  
Protective screen for front window  
Rain shield  
Lower wiper with intermittent control  
Anti-vandalism kit

Rear view camera  
Straight travel pedal

### Undercarriage

Full track guard (only L)  
Undercover (heavy-duty 10 mm, **0.39"**)

### Track equipment

600 mm, **24"/700 mm, 28"/900 mm, 36"** track pads with triple grousers  
700 mm, **28"** track pads with double grouser

### Digging equipment

Boom: 6.0 m, **19' 8"** heavy-duty  
10.2 m, **33' 6"** long reach  
Arm: 2.5 m, **8' 2"**  
2.97 m, **9' 9"** general purpose  
2.97 m, **9' 9"** heavy-duty with wear strips  
3.6 m, **11' 10"**  
7.85 m, **25' 9"** long reach

### Service

Tool kit



Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from an engineering heritage of over 170 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**



*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.*

**VOLVO**

**Construction Equipment**

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