

VOLVO EXCAVATOR

EC210C

46,920 – 51,200 lb, 147 hp



MORE CARE. BUILT IN.



WALKAROUND AND EXPERIENCE THE VOLVO ADVANTAGES.

MORE SAFETY

- **The newly 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.**
- **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 boom float position.
- **Optional universal quick fit** makes versatility easier.



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 production.
- **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.



VOLVO – A PARTNER TO TRUST.

Trust. It's the foundation of any relationship – especially the one you have with your machine. That's why Volvo and the Volvo EC210C Excavator are the trusted partners with you through it all. Wherever it goes, it earns more than its share of work, respect and profits. It's got proven, industry-leading fuel economy and a legendary Volvo cab that's better than ever. The Volvo EC210C is the perfect all-around machine for residential to mid-sized building contractors and civil contractors in jobs such as truck loading, pipe laying and even demolition. The profits are out there. Go get it.

Volvo: your global, local partner

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.

A smart, quality investment

Go ahead, look at other competitors. You'll notice the Volvo difference right away. The EC210C is built to last. There's no skimping on quality – 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 one of our full scope of global equipment offerings, you know that Volvo is a symbol of quality, comfort and safety. Trust the Volvo EC210C Excavator to be there for you – everyday – from the first turn of the key to the last load of the day.

New innovations in comfort

You might know Volvo for comfort. The EC210C lives up to that reputation and takes it to a whole new level of innovation with a larger, more ergonomic work environment. Visibility is better. So are the seat, floor space and access to controls/ switches.

Fuel efficiency goes farther

You should know Volvo for fuel efficiency – and the EC210C is set to retain the title as the industry leader that gets the most work and profits out of each tank. Volvo: your most fuel-efficient option.

Put it to work on your job

When it comes to getting a multitude of jobs done – from excavating foundations, site grading and trenching to backfilling, truck loading and utility/piping, the Volvo EC210C Excavator puts you in command.

Proven endurance

The Volvo EC210C's proven, long-life booms and arms smile in the face of brutal conditions. Before it hits your jobsite, we've designed it, forged it and tested it to deliver strength and day after day endurance. That means you can count on Volvo to help your business grow – now and into the future – with the peace-of-mind and confidence to get the job done, make money and move on to the next job.



• Volvo: a sign of trust and quality.



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

As the world's second-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.



TAKE COMMAND IN COMFORT AND SAFETY.

8-hour shift. 14-hour shift. It doesn't matter. You're in command in the Volvo EC210C with a comfortable, industry-leading cab. Roomy in all the right places. Plenty of space for your feet and personal items. Complete control is yours in this seat. It keeps you fresh and productive all day – and it offers you the perfect view with all-around visibility. Operate the EC210C and take notice: less noise, less vibration and controls right where you want them. And Volvo safety and environmental harmony isn't just legend. It's reality and it's built into everything we design.

Ease into the comfortable cab

Volvo is the innovative industry leader in comfort. More comfort means longer operation and more performance. The EC210C adjustable seat supports your whole body. The cab is wider and pedal positions have been shifted forward for more foot space. Find the correct joystick, seat and pedal position with forward/reverse and up/down adjustments. To reduce hazardous vibration, Volvo has gone beyond emerging regulations with a cab suspension system that greatly reduces whole body vibration.

Commanding visibility and operation

Glazed surface areas are expansive. Volvo listened to operators and greatly expanded upper visibility. The roof hatch offers a good 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. It makes your work faster and safer. The EC210C Volvo engine produces less noise and the pressurized, well-insulated cab blocks sound. All-day command comes standard.

High-tech, high-capacity climate control

Welcome to the ultimate, modern work environment. Intelligently going beyond automobile technology, the EC210C's high-tech electronic climate control system comforts your entire body with the highest capacity heating and cooling ventilation system available.

You're safe with Volvo protection

The new-design Volvo Care Cab, with operator protective structure provides security. Volvo's attention to ergonomics when designing controls, pedals and monitors ensures safe, long-term use. An optional color rearview camera displaying on the LCD color monitor provides a safe view while swinging or traveling.

Safe 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.

In harmony with the environment

More than 95% of the machine materials are recyclable. External sound levels have been greatly reduced 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.

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.



• Well-positioned monitor and controls.



• Greater floor space with larger pedals.



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



THE INTELLIGENT WAY TO GET IT DONE.

In your business, the work just keeps coming. And you can't risk downtime. That's why the Volvo EC210C Excavator has the strength to get it done – day in and day out. It's the perfect combination of power, capacity, weight and total performance. Dig it, slope it, level it, trench it and load it. It's hungry for work. It's built for maximum uptime with simple maintenance and complete service access. Get to know the EC210C Excavator and you'll always meet your top priorities: greater profits and lower costs.

The strength to move you ahead

You want power. It's here in the powerful new generation Tier 3 compliant V-ACT (Volvo Advanced Combustion Technology) engine. It delivers 147 hp (110 kW) of optimized output – along with the stingiest use of fuel. It means consistently getting a higher yield with lower costs.

Advanced hydraulic command

The advanced hydraulic system will help you get more done – with the boom, arm and swing priority you demand – plus it's also highly responsive. It's this responsive 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 right tools to do the job

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

Quick, easy service access

The key to uptime is ease of service. The Volvo EC210C has simplified it. 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 – including the ability to check engine oil level.

Fast routine maintenance

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

Hydraulic oil cooler with intelligence

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. 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.

Common parts make Volvo a perfect fit

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.



• More care built in.

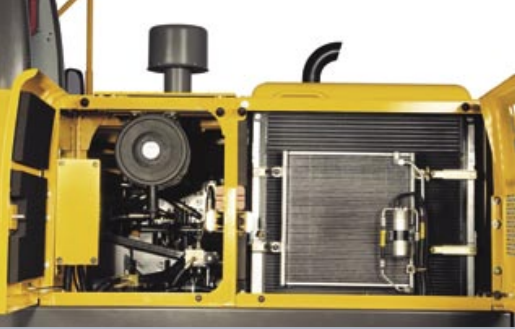
Advanced hydraulic system intelligently balances available engine power with hydraulic output for smooth, precision control.

Simplified, ground level service access, long service intervals and centralized lubrication points means more uptime.

Quick and easy access for hydraulic pump filters.

Anti-slip, punched steel platforms and walk areas offer superior grip and safety.

More uptime from well-protected hydraulic lines and easy-access grease points.



• Simplified, ground level service access.



• Easy access for hydraulic pump filters.



• Safe, anti-slip steps and platforms.



VOLVO QUALITY ENDURES. RELY ON IT.

The work is out there and you're ready. But if your machine isn't – you are not going to make any money. With the Volvo EC210C you don't have to worry. Trust Volvo. Rely on it everyday. Rev it up and finish the job. It's day after day dependability that drives your business. It's year after year reliability and the desire to produce the finest excavators that drives Volvo innovation. A lot went into the Volvo EC210C and it started with existing quality and improvements by listening to worldwide customers. The result is the excavator ready for your work – and the most demanding conditions.

Quality - from details to digging equipment

You can see and feel the quality. It's in the rigid service doors, engine hood and protected electrical system. It's in the strengthened, high-tensile steel undercarriage frames, along with the reinforced booms and arms. It's in the reinforced superstructure with double welded corners and load-bearing boom frame. It's built for the long haul with lower costs and high resale value.

Durable, dependable track

The Volvo EC210C undercarriage and track are built for durability, reliability and stability. The lifetime greased sealed track link prevents grease leaks, reduces noise and guarantees longevity.

Experience high-tech Volvo toughness

The Volvo EC210C 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. Track geographic machine location, usage, fuel consumption and more from your computer. Maximize uptime through important service reminders. CareTrack also offers theft protection by allowing you to limit geographic areas or hours of the day the machine can be operated.

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.





• Your trust. Your satisfaction. Count on it.



• Optional protected arm with reinforced strip.



• Lifetime greased sealed track link.



MORE OPTIONS. MORE VERSATILITY. MORE PROFIT.

Volvo is proud of how our excavators help our customers maximize productivity and profitability. From the manufacturing floor to your jobsite – the Volvo EC210C is designed to get the job done. And Volvo owners can do even more with the right optional equipment. Add some more comfort, protection or some extra strength. Meet growing jobsite demands with more Volvo versatility. It's your edge and your options are open.

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 hammers, shears, crushers and rotating/tilting attachments. Choose between 1 or 2 pump flow for best performance.

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 (S1, U21) are available to fit new and existing customer's 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-suspended models, provide excellent support and are individually adjustable to suit operator preferences.

Oil-bath pre-cleaner

Working in combination with the standard air cleaner, the oil-bath pre-cleaner provides extra protection against engine damage when operating in dusty or humid environments.

Diesel-driven engine coolant heater

The diesel-driven engine coolant heater aids low temperature starting, while simultaneously warming the cab. Heating time duration can be adjusted, set and programmed in advance to engage at a specific date and time.

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.

Rearview camera

For improved safety on the jobsite, the manually-operated camera by using a selection switch on the keypad provides a clear rear view whenever needed. Its wide angle view offers excellent visibility of both rear corners of the machine on swing operations. A clear display is visible on the wide screen, color LCD of the IECU (Instrument Electronic Control Unit).

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 fit

Wrist control joysticks -
proportional control

Operator seats

Oil-bath pre-cleaner

Diesel-driven engine
coolant heater

FOG and FOPS cab protection

Straight travel pedal

Rearview 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.

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.

Engine	Volvo D6E EAE3
Max. power, at	30 r/s 1,800 rpm
Net (ISO 9249, SAE J1349)	110 kW 147 hp
Gross (SAE J1995)	123 kW 165 hp
Max. torque at 1,350 rpm	730 Nm 538 lb.ft
No. of cylinders	6
Displacement	5.7 l 348 cu.in
Bore	98 mm 3.86"
Stroke	126 mm 4.96"

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	24 V
Batteries	2 x 12 V
Battery capacity	150 Ah
Alternator	28 V / 80 A

Service refill capacities

Fuel tank	350 l 92 gal
Hydraulic system, total	330 l 75 gal
Hydraulic tank	160 l 42 gal
Engine oil	25 l 7 gal
Engine coolant	32 l 8 gal
Swing reduction unit	8.6 l 2.3 gal
Travel reduction unit	2 x 5.8 l 2 x 1.5 gal

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.

Max. swing speed	11.6 rpm
Max. swing torque	76.6 kNm 56,500 lbf.ft

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.

Max. drawbar pull (tractive effort)	183 kN 41,230 lb
Max. travel speed	3.2/5.5 km/h 2.0/3.4 mph
Gradeability	35° 70%

Undercarriage

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

Track pads	2 x 49
Link pitch	190 mm 7.5"
Shoe width, triple grouser	600/700/800/900 mm 24"/28"/32"/36"
Shoe width, double grouser	700 mm 28"
Bottom rollers	2 x 9
Top rollers	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 provide 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 200 l/min **2 x 53 gpm**

Pilot pump:
Type: Gear pump
Maximum flow: 18 l/min **4.8 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	32.4/34.3 Mpa 4,690/4,980 psi
Travel circuit	34.3 Mpa 4,980 psi
Swing circuit	27.9 Mpa 4,050 psi
Pilot circuit	3.9 Mpa 570 psi

Hydraulic cylinders:

Boom	2
Bore x Stroke	ø125 x 1,235 mm ø4.9 x 48.6"
Arm	1
Bore x Stroke	ø135 x 1,540 mm ø5.3 x 60.6"
Bucket	1
Bore x Stroke	ø120 x 1,065 mm ø4.7 x 41.9"

Cab

The newly 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. Cup holders, 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 rearview camera monitor (option).

Sound Level:

Sound level in cab according to ISO 6396 LpA 70 dB(A)
External sound level according to ISO 6395 and EU Directive 2000/14/EC LwA 102 dB(A)

Ground pressure

- **EC210C L** with 5.7 m, **18' 8" boom**, 2.9 m, **9' 6" arm**, 776 kg, **1,710 lb bucket**, 4,200 kg, **9,260 lb counterweight**

Description	Shoe width	Operating weight (up to)	Ground pressure	Overall width
Triple grouser	600 mm, 24"	21,300 kg, 46,920 lb	44.1 KPa, 6.4 psi	2,990 mm, 9' 10"
	700 mm, 28"	21,700 kg, 47,910 lb	38.2 KPa, 5.5 psi	3,090 mm, 10' 2"
	800 mm, 32"	22,000 kg, 48,520 lb	34.3 KPa, 5.0 psi	3,190 mm, 10' 6"
	900 mm, 36"	22,300 kg, 49,150 lb	30.4 KPa, 4.4 psi	3,290 mm, 10' 10"
Double grouser	700 mm, 28"	22,000 kg, 48,470 lb	39.2 KPa, 5.7 psi	3,090 mm, 10' 2"

- **EC210C LR** with 8.85 m, **29' 0" boom**, 6.25 m, **20' 6" arm**, 452 kg, **1,000 lb bucket**, 4,900 kg, **10,800 lb counterweight**

Description	Shoe width	Operating weight (up to)	Ground pressure	Overall width
Triple grouser	800 mm, 32"	23,200 kg, 51,200 lb	36.3 KPa, 5.3 psi	3,190 mm, 10' 6"

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.

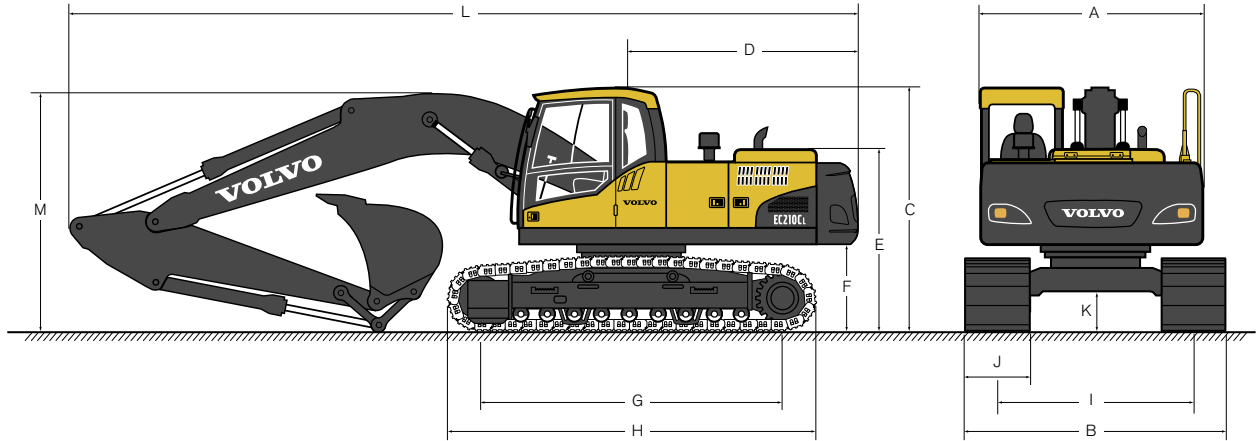
- **EC210C L** with **pin-on bucket**, 4,200 kg, **9,260 lb counterweight**

Description	Max. bucket volume / weight	5.7 m, 18' 8" boom		
		2.5 m, 8' 2" arm	2.9 m, 9' 6" arm	3.5 m, 11' 6" arm
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l/kg	1,425 / 1,200	1,350 / 1,150	1,200 / 1,000
	yd ³ /lb	1.86 / 2,650	1.77 / 2,540	1.57 / 2,200
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l/kg	1,275 / 1,050	1,200 / 1,000	1,075 / 900
	yd ³ /lb	1.67 / 2,310	1.57 / 2,200	1.41 / 1,980
HD bucket 1.8 t/m ³ , 3,030 lb/yd³	l/kg	1,200 / 1,200	1,125 / 1,100	1,000 / 1,000
	yd ³ /lb	1.57 / 2,650	1.47 / 2,430	1.31 / 2,200
HD bucket 2.0 t/m ³ , 3,370 lb/yd³	l/kg	1,125 / 1,100	1,050 / 1,050	950 / 950
	yd ³ /lb	1.47 / 2,430	1.37 / 2,310	1.24 / 2,090

- **EC210C L** with **quick fit bucket**, 4,200 kg, **9,260 lb counterweight**

Description	Max. bucket volume / weight	5.7 m, 18' 8" boom		
		2.5 m, 8' 2" arm	2.9 m, 9' 6" arm	3.5 m, 11' 6" arm
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l/kg	1,300 / 1,100	1,225 / 1,000	1,075 / 900
	yd ³ / lb	1.70 / 2,430	1.60 / 2,200	1.41 / 1,980
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l/kg	1,150 / 950	1,075 / 900	950 / 800
	yd ³ /lb	1.50 / 2,090	1.41 / 1,980	1.24 / 1,760
HD bucket 1.8 t/m ³ , 3,030 lb/yd³	l/kg	1,100 / 1,100	1,025 / 1,000	900 / 900
	yd ³ /lb	1.44 / 2,430	1.34 / 2,200	1.18 / 1,980
HD bucket 2.0 t/m ³ , 3,370 lb/yd³	l/kg	1,025 / 1,000	950 / 950	825 / 800
	yd ³ /lb	1.34 / 2,200	1.24 / 2,090	1.08 / 1,760

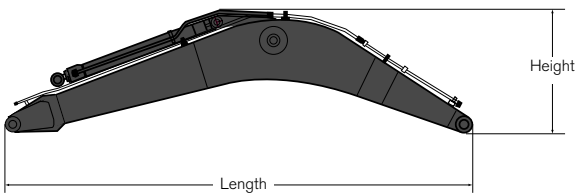
Dimensions



Description	Unit	EC210C L			EC210C LR
		5.7 m, 18' 8" boom			8.85 m, 29' 0" boom
		2.5 m, 8' 2" arm	2.9 m, 9' 6" arm	3.5 m, 11' 6" arm	6.25 m, 20' 6" arm
A. Overall width of upper structure	mm, ft-in	2,700, 8' 10"	2,700, 8' 10"	2,700, 8' 10"	2,700, 8' 10"
B. Overall width	mm, ft-in	3,190, 10' 6"	3,190, 10' 6"	3,190, 10' 6"	3,190, 10' 6"
C. Overall height of cab	mm, ft-in	2,930, 9' 7"	2,930, 9' 7"	2,930, 9' 7"	2,930, 9' 7"
D. Tail swing radius	mm, ft-in	2,850, 9' 2"	2,850, 9' 2"	2,850, 9' 2"	2,850, 9' 2"
E. Overall height of engine hood	mm, ft-in	2,260, 7' 5"	2,260, 7' 5"	2,260, 7' 5"	2,260, 7' 5"
F. Counterweight clearance *	mm, ft-in	1,025, 3' 4"	1,025, 3' 4"	1,025, 3' 4"	1,025, 3' 4"
G. Tumbler length	mm, ft-in	3,660, 12' 0"	3,660, 12' 0"	3,660, 12' 0"	3,660, 12' 0"
H. Track length	mm, ft-in	4,460, 14' 8"	4,460, 14' 8"	4,460, 14' 8"	4,460, 14' 8"
I. Track gauge	mm, ft-in	2,390, 7' 10"	2,390, 7' 10"	2,390, 7' 10"	2,390, 7' 10"
J. Shoe width	mm, in	800, 32"	800, 32"	800, 32"	800, 32"
K. Min. ground clearance *	mm, ft-in	460, 1' 6"	460, 1' 6"	460, 1' 6"	460, 1' 6"
L. Overall length	mm, ft-in	9,750, 31' 10"	9,690, 31' 8"	9,685, 31' 7"	12,860, 42' 0"
M. Overall height of boom	mm, ft-in	3,120, 10' 3"	3,000, 9' 10"	3,355, 11' 0"	3,150, 10' 4"

* Without shoe grouser

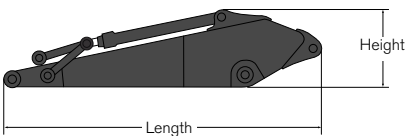
• Boom



Description	Unit	5.7 m, 18' 8"		8.85 m, 29' 0"
		Standard	Heavy-duty	
Length	mm, ft-in	5,910, 19' 5"	5,910, 19' 5"	9,060, 29' 9"
Height	mm, ft-in	1,585, 5' 2"	1,585, 5' 2"	1,620, 5' 4"
Width	mm, ft-in	670, 2' 2"	670, 2' 2"	670, 2' 2"
Weight	kg, lb	1,785, 3,940	1,890, 4,170	2,360, 5,200

* Includes arm cylinder, piping and pin

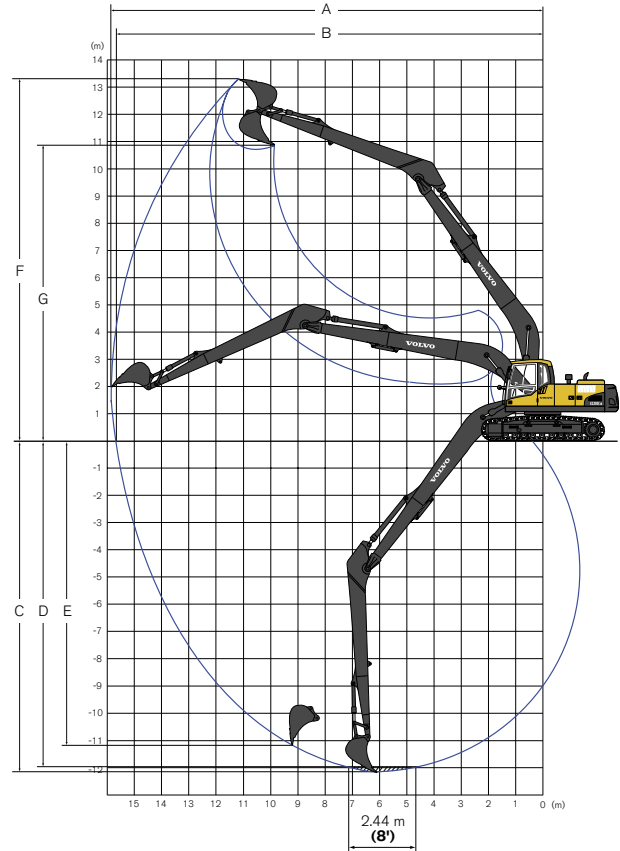
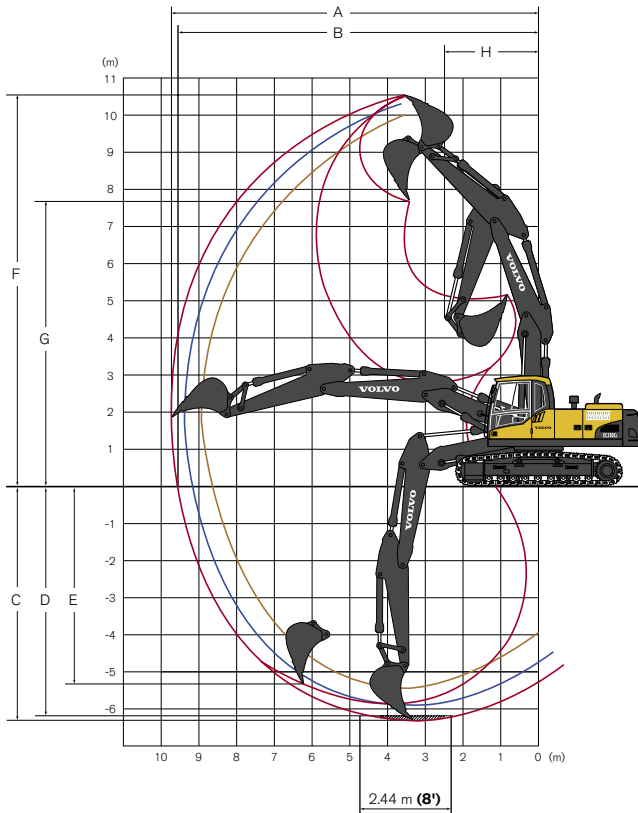
• Arm



Description	Unit	2.5 m, 8' 2"	2.9 m, 9' 6"		3.5 m, 11' 6"	6.25 m, 20' 6"
			Standard	Heavy-duty		
Length	mm, ft-in	3,525, 11' 7"	3,910, 12' 10"	3,910, 12' 10"	4,540, 14' 11"	7,310, 24' 0"
Height	mm, ft-in	860, 2' 10"	860, 2' 10"	860, 2' 10"	855, 2' 10"	876, 2' 10"
Width	mm, ft-in	440, 1' 5"	440, 1' 5"	440, 1' 5"	440, 1' 5"	384, 1' 3"
Weight	kg, lb	975, 2,150	1,000, 2,210	1,085, 2,390	1,110, 2,450	1,295, 2,860

* Includes bucket cylinder, linkage and pin

Working ranges & digging force



Machine with pin-on bucket	Unit	5.7 m, 18' 8" boom			8.85 m, 29' 0" boom
		2.5 m, 8' 2" arm	2.9 m, 9' 6" arm	3.5 m, 11' 6" arm	6.25 m, 20' 6" arm
A. Max. digging reach	mm, ft-in	9,540, 31' 4"	9,940, 32' 7"	10,394, 34' 1"	15,809, 51' 10"
B. Max. digging reach on ground	mm, ft-in	9,350, 30' 8"	9,750, 32' 0"	10,238, 33' 7"	15,707, 51' 6"
C. Max. digging depth	mm, ft-in	6,330, 20' 9"	6,730, 22' 1"	7,329, 24' 1"	12,105, 39' 8"
D. Max. digging depth (8' level)	mm, ft-in	6,110, 20' 1"	6,510, 21' 4"	7,147, 23' 5"	11,998, 39' 4"
E. Max. vertical wall digging depth	mm, ft-in	5,520, 18' 1"	5,830, 19' 2"	6,170, 20' 3"	11,184, 36' 8"
F. Max. cutting height	mm, ft-in	9,220, 30' 3"	9,450, 31' 0"	9,461, 31' 0"	13,302, 43' 7"
G. Max. dumping height	mm, ft-in	6,430, 21' 1"	6,650, 21' 10"	6,695, 22' 0"	10,947, 35' 10"
H. Min. front swing radius	mm, ft-in	3,670, 12' 0"	3,650, 12' 0"	3,631, 11' 11"	-

Digging forces with pin-on bucket		Unit	5.7 m, 18' 8" Boom			8.85 m, 29' 0" Boom
			2.5 m, 8' 2" arm	2.9 m, 9' 6" Arm	3.5 m, 11' 6" Arm	6.25 m, 20' 6" Arm
Bucket radius		mm, in	1,470, 58"	1,470, 58"	1,470, 58"	1,540, 61"
Breakout force - bucket (Normal/Power boost)	SAE J1179	kN	122.6/130.4	122.6/130.4	122.6/130.4	68.6
		lb	27,560/29,310	27,560/29,310	27,560/29,310	15,440
	ISO 6015	kN	136.3/147.1	136.3/147.1	136.3/147.1	77.8
		lb	30,640/33,060	30,640/33,060	30,640/33,060	17,490
Tearout force - arm (Normal/Power boost)	SAE J1179	kN	110.4/117.2	95.6/103.0	88.0/93.0	44.1
		lb	24,830/26,350	21,500/23,150	19,780/20,900	9,920
	ISO 6015	kN	113.7/120.7	98.2/104.9	89.0/95.0	44.7
		lb	25,560/27,130	22,070/23,580	20,000/21,350	10,050
Rotation angle, bucket		deg.	175	175	175	179

STANDARD EQUIPMENT

Engine

Turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EPA Tier 3 emission standards
Air filter with indicator
Intake air pre-heater
Electric engine shut-off
Cyclone pre cleaner
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 1
Travel alarm
Batteries, 2 x 12 V / 150 Ah
Start motor, 24 V / 4.8 kW

Hydraulic system

Automatic sensing hydraulic system
– Summation system
– Boom priority
– Arm priority
– Swing priority
Boom, arm and bucket 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
Tool storage area
Service walkway with anti-slip grating
Undercover (HD 4.5 mm, **0.18"**)

Cab and interior

Fabric seat with heater and mechanical suspension
2-button control for hammer/shear auxiliary hydraulics
Travel pedals with hand levers
Hydraulic dampening cab mounts

Adjustable operator seat and joystick control console
Hydraulic safety lock lever
Flexible antenna
AM/FM stereo with CD player and MP3 input
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
– 3" retractable seat belt
– Safety glass, light tinted
– Sun screen, front, roof, rear
– Windshield wiper with washer and intermittent feature
Anti-vandalism kit assembly preparation
Master key

Undercarriage

Hydraulic track adjusters
Greased and sealed track link
Track guard

Digging equipment

Manual centralized lubrication

OPTIONAL EQUIPMENT

Engine

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

Electric

Extra lights:
– Cab-mounted 3
– Counterweight-mounted 1
– Boom-mounted 1
Extra lights (cab front only):
– Cab-mounted 2
– Boom-mounted 1
Anti-theft system
Rotating warning beacon

Hydraulic system

Hose rupture valve: boom, arm
Overload warning device
Hydraulic piping:
– Work tool management system (up to 20 programmable memories)
– Hammer & shear, 1 and 2 pump flow
– Hammer & shear: variable flow and pressure pre-setting
– Additional return filter
– Slope & rotator
– Grapple
– Oil leak (drain) line
Volvo hydraulic quick fit (S1, U21)

Hydraulic oil, ISO VG 32
Hydraulic oil, ISO VG 68
Hydraulic oil, biodegradable 32
Hydraulic oil, biodegradable 46
Hydraulic oil, long life 32
Hydraulic oil, long life 46
Hydraulic oil, long life 68
Boom float function

Superstructure

Full height counterweight:
L: 4,200 kg, **9,260 lb**
LR: 4,900 kg, **10,800 lb**

Cab and interior

Fabric seat
Fabric seat with heater
Control joysticks with 4 switches each
Control joystick with semi-long levers
Control joystick with proportional control
Pilot control pattern change
Heater & air-conditioner, automatic
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
Rear view mirror, counterweight
Straight travel pedal
Smoker kit
Opening top hatch

Undercarriage

Full track guard
Undercover: 4.5 mm, **0.18"**
10 mm, **0.39"** HD

Track equipment

600 mm, **24"**/700 mm, **28"**/800 mm, **32"**/900 mm, **36"** track pads with triple grousers
700 mm, **28"** track pads with double grouser

Digging equipment

Boom: 5.7 m, **18' 8"** GP
5.7 m, **18' 8"** HD
8.85 m, **29' 0"** long reach
Arm: 2.5 m, **8' 2"**
2.9 m, **9' 6"** HD without wear strips
2.9 m, **9' 6"** HD
3.5 m, **11' 6"**
6.25 m, **20' 6"** long reach
Bucket: **24"** S1-HD
24" XP-HD
43" XP-HD
43" S1-HD

Linkage with lifting eye
Extended greasing bushing

Service

Tool kit, daily maintenance
Tool kit, full scale
Automatic lubrication system
CareTrack

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.



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