

VOLVO EXCAVATOR

EC700CL

150,575 – 155,650 lb, 424 hp



MORE CARE. BUILT IN.



ALL WORK. ALL THE TIME.

[MORE PROFIT.]

- **Powerful Volvo V-ACT engine:** efficiently moves more tons per hour.
- **Industry-leading fuel efficiency.**
- **The digging reach, depth and capacity** to stretch your productivity further.
- **Advanced hydraulic system** is well matched for efficient, smooth control.
- **Excellent lifting capacity** - to pull out of the pile with no hesitation.
- **Volvo quick fit:** easy attachment change out for greater versatility.

[MORE SAFETY.]

- **Superior balance and stability** for peace of mind in any terrain.
- **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.**
- **Lead-free exterior paint** is in harmony with the environment.





[MORE COMFORT.]

- **New larger, more comfortable cab** puts you in command.
- **Roomy, adjustable seat** supports your whole body.
- **Improved noise insulation** helps keep the noise out and the fatigue away.
- **Vibration dampening:** reduced whole body vibration and fatigue.
- **High-capacity climate control system.**



[MORE UPTIME.]

- **Large, easy-opening service panels** for safe, complete access.
- **Easy access, centralized lubrication points.**
- **In-cab monitoring** through the easy-to-read, **color LCD monitor.**
- **Easy to learn. Easy to operate. Easy to get more done.**

[MORE QUALITY.]

- **Heavy-duty boom and arm:** reliability and strength for difficult jobs.
- **Strong undercarriage frame:** endures daily abuse.
- **Reinforced boom/arm and proven components** deliver every time.
- **Reinforced superstructure:** double welded stress points.
- **Lifetime greased, sealed track chain** prevents leaks and guarantees long life.

VOLVO – A PARTNER TO TRUST.

Big. Size alone won't get the job done. You have to back it up with production – every day. When the job is big, look to the excavator that does it all bigger, faster and stronger. The 70-ton Volvo EC700C will make you think it's in the 80-ton class. That's because it's built like it. Get to work in the machine that will be your money-making partner for a long time.

Volvo: your global, local partner

- Complete solutions since 1927.
- Built on the core values of quality, safety and environmental care.
- Construction equipment, commercial transport, buses, trucks and more.
- Global expertise: development of engines with leading fuel efficiency.

Top of its class

- The 70-ton excavator with key features found in the 80-ton class.
- Perfectly matched for quick, 40-ton articulated hauler loading – in four to six passes.
- Optimized operations by electronic control – balancing available engine and hydraulic power to conditions.

Big on production

- Tear away more material – faster and easier.
- Fast cycles mean more tons moved on every shift.
- Stout stability from wide-gauge tracks and heavy-duty counterweight.

Comfortably work longer

- Maximum performance you need with the efficiency, comfort and safety you expect from Volvo.
- Climate-controlled cab keeps you fresh, alert and focused – longer.
- Well-placed instruments and clear, all-around visibility.

Built to work for you

- Flexibility to handle a wide range of materials in a wide range of applications.
- Choose the work tools, boom/arm configuration and track shoes for your work.
- The leader on the jobsite: production trenching, mass excavation, quarry loading, rock-face stripping, mining, high-demand earthmoving, material-loading jobs and more.



• Volvo: the name you can trust for quality.



• Reinforced boom/arm handles all the jobs.



• Intelligent command means greater profits.



• Well-positioned monitor and controls.



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.



BUILT TO LEAVE NO WORK BEHIND.

You might not have to move mountains – but it's nice to know you can. The Volvo EC700C has all the power you need, plus perfectly harmonized hydraulics to make the most difficult material quickly go wherever you want. Mass excavation. Production trenching. Rock-face stripping. Mine loading. The list goes on and on. Just like the Volvo EC700C.

Quality for the long haul

- Built with quality – through and through – from boom to counterweight.
- Loaded with proven, extra-duty components.
- Main pump, swing motor, bearing/ track rollers and other key components live up to 80-ton class standards.
- Larger-diameter swing bearing provides smooth action and dependable, long life.

A reinforced force to behold

- Extra-duty undercarriage provides solid footing.
- Wide track gauge and an extra-heavy counterweight.
- Reinforced under-cover protects the high tensile-strength steel undercarriage and superstructure.
- Robotically-welded frame stands up to brutal stresses.
- Boom and arm is robotically welded and engineered for durability.

Power to tear through the work

- Powerful Volvo engine delivers high torque even at low RPMs.
- Class-leading power: 316 kW, **424 hp**.
- Harmonized engine and hydraulics for smooth, responsive digging and lifting.
- High breakout forces, crowding forces and swing speed.
- Quicker cycle times. More tons loaded. Faster job completion.





• More care built in through quality



• Lifetime greased and sealed track chain.



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



WHERE YOU WANT TO BE – ALL DAY LONG.

Volvo values the environment. Yours and ours. The Volvo EC700C is proof. The rock-solid exterior features a comfortable interior that helps you share the fatigue-free, work-all-day feeling your machine has. Safety and care is also covered inside and out. For you. For those working around you. For those living around you.

Your comfort zone

- Adjustable seat puts any size operator at ease.
- Ergonomic, low-effort controls/levers put all functions easily within reach.
- High-capacity climate control system: comfortable in all weather.
- Fine-particle air filtration: keeps dust away from the operator and electronics.

Volvo views safety as a priority

- Clear, all-around visibility from expansive glass and a thin front-window crossbar.
- Cab entry and exit is easier from wide access steps and sturdy hand rails.
- Sure grip step below the fuel port helps keep you anchored when refueling.
- Long, wide-gauge tracks, an extra-duty undercarriage and heavy counterweight provide sure-footed stability.

Environmental care

- Volvo Advanced Combustion Technology (V-ACT) engine provides low emissions.
- Robust cab suspension mounts suppress noise and dampen vibration.





• Greater floor space with ergonomic pedals.



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



• Safe, anti-slip steps and platforms.



INTELLIGENT DESIGN. SMART CHOICE.

Hard at work. Easy to keep running. Volvo dealer support built in around you. That is the Volvo EC700C way. You have less to worry about. Just the job in your sight and the profits in your pocket. It's the smart way to work. Do a quick check. Close the door. Turn the key and go to it.

Service your uptime

- Punched-plate, anti-slip walkways make machine checks safe and easy.
- Filters and components are conveniently located for quick replacement.
- Plenty of space and access to major components such as the main pump.
- In-cab diagnostic monitoring.
- Micro-particle filtration keeps the engine, hydraulics and electronics free from contaminants.

Your Volvo machine. Your Volvo dealer. The support you need:

VCADS at your service

- Optional computerized monitoring and diagnostics program.
- The perfect tool for the service technician.
- Makes troubleshooting diagnosis quick and accurate.

MATRIS gives you a full report

- Detailed operating history analysis, utilization and efficiency.
- Turns the data captured inside the machine's computer into easy-to-use graphs and reports.
- Check operating techniques, reduce maintenance costs and increase service life.

PROSIS makes parts ordering faster

- CD-ROM application makes it quick and easy for your dealer to order all your parts.
- Your dealer helps you find the right part and place your order to get you up and running fast.





• Simplified, centralized lubrication points.



• Easy access to hydraulic pumps and filters.



• Volvo is the partner you can grow with.



IT'S YOUR WORK. IT'S YOUR CHOICE.

Make your Volvo Excavator just right for you and your work. To customize your excavator with other optional equipment features to suit your application, contact your local Volvo dealer.

Hydraulic kits

A wide variety of hydraulic kits is 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. Choose between 1 or 2 pump flow for best performance.

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.

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.

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.

Full-length derailing shield

Keeps the track chain straight in uneven terrain, such as slopes and blasted rock – helping to avoid wear and extend life. The track chain is the most expensive wear part to replace, meaning the full-length derailing shield helps increase customer profit through lower repair costs.

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.

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.

CareTrack

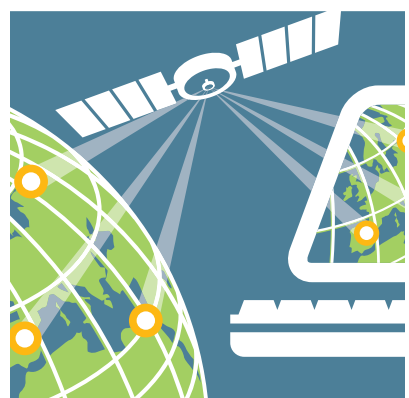
GPS monitoring program that works with the machine's diagnostic system. Allows the owner and dealer to remotely track usage, productivity, fuel consumption and more. Maximizes uptime through important service reminders. Also monitors geographic machine location and can even prevent unauthorized use.

Hydraulic quick fit

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



VOLVO OPTIONAL EQUIPMENT



Hydraulic kits

Operator seats

Rear view camera

**Diesel-driven engine
coolant heater**

Straight travel pedal

**Wrist control joysticks -
proportional control**

FOG and FOPS cab protection

Full-length derailing shield

CareTrack

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 4-stroke Volvo diesel engine with water cooling has been specifically developed for excavator use to deliver low emissions, good fuel efficiency, long service life and superior performance. The EPA Tier 3 compliant engine uses turbocharged air-to-air intercooling and direct injection electronic engine controls. The automatic idling system reduces the engine speed to idle when no machine functions are activated, resulting in lower fuel consumption and lower cab noise levels.

Engine	Volvo D16E EAE3	
Max. power, at	30 r/s	1,800 r/min
Net (ISO 9249, SAE J1349)	316 kW	424 hp
Gross (SAE J1995)	346 kW	464 hp
Max. torque at 1 350 r/min	2,250 Nm	1,660 lb.ft
No. of cylinders	6	
Displacement	16.1 l	982 cu.in
Bore	144 mm	5.67"
Stroke	165 mm	6.50"

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.

Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	24 V	
Batteries	2 x 12 V	
Battery capacity	225 Ah	
Alternator	28 V / 80 A	

Service refill capacities

Fuel tank	840 l	222 gal
Hydraulic system, total	655 l	173 gal
Hydraulic tank	350 l	92 gal
Engine oil	52 l	13 gal
Engine coolant	65 l	17 gal
Swing reduction unit	2 x 6 l	2 x 1.6 gal
Travel reduction unit	2 x 20 l	2 x 5.3 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	6.7 r/min	
Max. swing torque	23.1 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.

Max. drawbar pull	453 kN	101,830 lb
Max. travel speed	3.0/4.6 km/h	1.9/2.9 mph
Gradeability	35°	70%

Undercarriage

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

Track pads	2 x 48	
Link pitch	260.4 mm	10.3"
Shoe width, double grouser	650/750/900 mm	26"/30"/36"
Bottom rollers	2 x 8	
Top rollers	2 x 3	

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 436 l/min **2 x 115 gpm**

Pilot pump:

Type: Gear pump
Maximum flow: 27.4 l/min **7.2 gpm**

Hydraulic motors:

Travel: Variable displacement axial piston motor with mechanical brake

Swing: Fixed displacement piston motor with mechanical brake

Relief valve setting:

Implement	31.4/34.3 MPa	4,550/4,980 psi
Travel circuit	34.3 MPa	4,980 psi
Swing circuit	25.5 MPa	3,700 psi
Pilot circuit	3.9 MPa	570 psi

Hydraulic cylinders:

Boom	2	Bore x Stroke	ø190 x 1,790 mm	ø7.5 x 70.5"
Arm	1	Bore x Stroke	ø215 x 2,070 mm	ø8.5 x 81.5"
Bucket	1	Bore x Stroke	ø190 x 1,450 mm	ø7.5 x 57.1"
ME Bucket	1	Bore x Stroke	ø200 x 1,450 mm	ø7.8 x 57.1"

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.

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 14 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level:

Sound level in cab according to ISO 6396
LpA 72 dB(A)

External sound level according to ISO 6395 and EU Directive 2000/14/EC

LwA 107 dB(A)

Ground pressure

• **EC700CL** with 6.6 m, **21' 8"** boom, 2.9 m, **9' 6"** arm, 3,730 kg, **8,220 lb** bucket, 11,300 kg, **24,920 lb** counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
Double grouser	650 mm, 26"	69,800 kg, 153,890 lb	101.5 kPa, 14.7 psi	4,095 mm, 13' 5"
	750 mm, 30"	70,500 kg, 155,425 lb	88.9 kPa, 12.9 psi	4,100 mm, 13' 6"
	900 mm, 36"	71,700 kg, 158,070 lb	75.3 kPa, 10.9 psi	4,250 mm, 13' 11"

• **EC700CL** with 7.7 m, **25' 3"** boom, 3.55 m, **11' 8"** arm, 2,800 kg, **6,170 lb** bucket, 11,300 kg, **24,920 lb** counterweight

Description	Shoe width	Operating weight	Ground pressure	Overall width
Double grouser	650 mm, 26"	69,300 kg, 150,600 lb	100.8 kPa, 14.6 psi	4,095 mm, 13' 5"
	750 mm, 30"	69,000 kg, 152,150 lb	88.2 kPa, 12.8 psi	4,100 mm, 13' 6"
	900 mm, 36"	70,000 kg, 154,350 lb	74.6 kPa, 10.8 psi	4,250 mm, 13' 11"

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.
 4. LU: Light Utility
 5. GP: General Purpose, Excavation, Trenching
 6. HD: Heavy Duty, Heavy Excavation, Heavy Trenching
 7. RL: Rock Loading

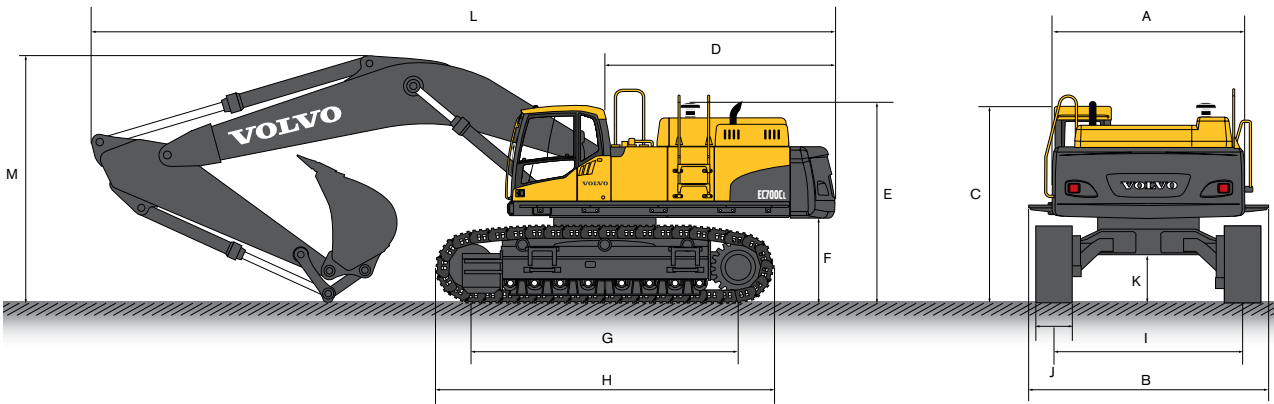
• **EC700CL** with 650 mm, **26"** shoe, 11,300 kg, **24,920 lb** counterweight

Description	Max. bucket volume / weight	6.6 m, 21' 8" boom		7.7 m, 25' 3" boom	
		2.9 m, 9' 6" arm	2.9 m, 9' 6" arm	3.55 m, 11' 8" arm	4.2 m, 13' 9" arm
LU bucket 1.2t/m ³ , 2,020 lb/yd³	l, yd ³ / kg, lb	6,600, 8.63 / 4,250, 9,370	5,300, 6.93 / 3,400, 7,500	4,925, 6.44 / 3,200, 7,050	4,450, 5.82 / 2,850, 6,280
LU bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³ / kg, lb	5,675, 7.42 / 3,650, 8,050	4,550, 5.95 / 2,950, 6,500	4,225, 5.53 / 2,700, 5,950	3,825, 5.00 / 2,450, 5,400
GP bucket 1.3 t/m ³ , 2,190 lb/yd³	l, yd ³ / kg, lb	5,675, 7.42 / 5,150, 11,350	4,550, 5.95 / 3,850, 8,490	4,225, 5.53 / 3,600, 7,940	3,825, 5.00 / 3,250, 7,160
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³ / kg, lb	5,200, 6.80 / 4,400, 9,700	4,175, 5.46 / 3,500, 7,720	3,875, 5.07 / 3,250, 7,160	3,500, 4.58 / 2,950, 6,500
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³ / kg, lb	4,600, 6.02 / 3,900, 8,600	3,700, 4.84 / 3,100, 6,830	3,425, 4.48 / 2,900, 6,390	3,100, 4.05 / 2,600, 5,730
HD bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³ / kg, lb	4,350, 5.69 / 4,350, 9,590	3,500, 4.58 / 3,500, 7,720	3,250, 4.25 / 3,250, 7,160	2,925, 3.83 / 2,900, 6,390
HD bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³ / kg, lb	4,075, 5.33 / 4,050, 8,930	3,275, 4.28 / 3,250, 7,160	3,025, 3.96 / 3,000, 6,610	2,725, 3.56 / 2,700, 5,950
RL bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³ / kg, lb	3,925, 5.13 / 5,100, 11,240	3,150, 4.12 / 4,050, 8,930	2,925, 3.83 / 3,800, 8,380	2,650, 3.47 / 3,400, 7,500
RL bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³ / kg, lb	3,700, 4.84 / 4,800, 10,580	2,975, 3.89 / 3,850, 8,490	2,750, 3.60 / 3,550, 7,830	2,475, 3.24 / 3,200, 7,050
Max. permitted bucket width	mm, ft-in	2,100, 6' 11"	2,000, 6' 7"	2,000, 6' 7"	2,000, 6' 7"

• **EC700CL** with 900 mm, **36"** shoe, 11,300 kg, **24,920 lb** counterweight

Description	Max. bucket volume / weight	7.7 m, 25' 3" boom			
		2.9 m, 9' 6" arm	3.55 m, 11' 8" arm	4.2 m, 13' 9" arm	5.2 m, 17' 1" arm
LU bucket 1.2t/m ³ , 2,020 lb/yd³	l, yd ³ / kg, lb	5,875, 7.68 / 3,050, 6,720	5,450, 7.13 / 2,950, 6,500	4,900, 6.40 / 2,600, 5,730	-
LU bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³ / kg, lb	5,050, 6.61 / 2,550, 5,620	4,675, 6.11 / 2,450, 5,400	4,225, 5.53 / 2,150, 4,740	-
GP bucket 1.3 t/m ³ , 2,190 lb/yd³	l, yd ³ / kg, lb	5,050, 6.61 / 3,550, 7,830	4,675, 6.11 / 3,400, 7,500	4,225, 5.53 / 3,000, 6,610	3,400, 4.45 / 2,750, 6,060
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³ / kg, lb	4,625, 6.80 / 3,200, 7,050	4,275, 5.59 / 3,050, 6,720	3,875, 5.07 / 2,650, 5,840	3,100, 4.05 / 2,500, 5,510
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³ / kg, lb	4,100, 5.36 / 2,750, 6,060	3,800, 4.97 / 2,650, 5,840	3,425, 4.48 / 2,300, 5,070	2,750, 3.60 / 2,200, 4,850
HD bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³ / kg, lb	3,875, 5.07 / 3,150, 6,940	3,600, 4.71 / 3,000, 6,610	3,250, 4.25 / 2,600, 5,730	2,600, 3.40 / 2,500, 5,510
HD bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³ / kg, lb	3,625, 4.74 / 2,850, 6,280	3,350, 4.38 / 2,750, 6,060	3,025, 3.96 / 2,400, 5,290	2,425, 3.17 / 2,300, 5,070
RL bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³ / kg, lb	3,500, 4.58 / 3,800, 8,380	3,250, 4.25 / 3,600, 7,940	2,925, 3.83 / 3,200, 7,050	-
RL bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³ / kg, lb	3,275, 4.28 / 3,550, 7,830	3,050, 3.99 / 3,350, 7,390	2,750, 3.60 / 2,950, 6,500	-
Max. permitted bucket width	mm, ft-in	2,000, 6' 7"	2,000, 6' 7"	2,000, 6' 7"	2,000, 6' 7"

Dimensions

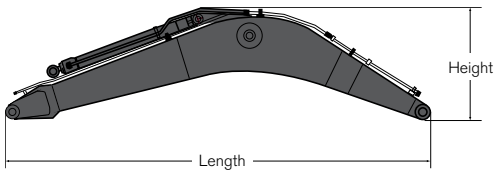


• EC700CL with 650 mm, 26" shoe, 11,300 kg, 24,920 lb counterweight

Description	6.6 m, 21' 8" boom		7.7 m, 25' 3" boom		
	2.9 m, 9' 6" arm	2.9 m, 9' 6" arm	3.55 m, 11' 8" arm	4.2 m, 13' 9" arm	
A. Overall width of upper structure	mm, ft-in	3,420, 11' 3"	3,420, 11' 3"	3,420, 11' 3"	3,420, 11' 3"
B. Overall width	mm, ft-in	4,286, 14' 1"	4,286, 14' 1"	4,286, 14' 1"	4,286, 14' 1"
C. Overall height of cab	mm, ft-in	3,520, 11' 6"	3,520, 11' 6"	3,520, 11' 6"	3,520, 11' 6"
D. Tail swing radius	mm, ft-in	4,090, 13' 5"	4,090, 13' 5"	4,090, 13' 5"	4,090, 13' 5"
E. Overall height of engine hood	mm, ft-in	3,590, 11' 10"	3,590, 11' 10"	3,590, 11' 10"	3,590, 11' 10"
F. Counterweight clearance *	mm, ft-in	1,507, 4' 11"	1,507, 4' 11"	1,507, 4' 11"	1,507, 4' 11"
G. Tumbler length	mm, ft-in	4,750, 15' 7"	4,750, 15' 7"	4,750, 15' 7"	4,750, 15' 7"
H. Track length	mm, ft-in	5,990, 19' 8"	5,990, 19' 8"	5,990, 19' 8"	5,990, 19' 8"
I. Track gauge (extended)	mm, ft-in	3,350, 11' 0"	3,350, 11' 0"	3,350, 11' 0"	3,350, 11' 0"
Track gauge (retracted)	mm, ft-in	2,750, 9' 0"	2,750, 9' 0"	2,750, 9' 0"	2,750, 9' 0"
J. Shoe width	mm, ft-in	650, 26"	650, 26"	650, 26"	650, 26"
K. Min. ground clearance *	mm, ft-in	858, 2' 10"	858, 2' 10"	858, 2' 10"	858, 2' 10"
L. Overall length	mm, ft-in	12,200, 40' 0"	13,320, 43' 8"	13,220, 43' 5"	13,170, 43' 2"
M. Overall height of boom	mm, ft-in	4,855, 15' 11"	4,660, 15' 0"	4,600, 15' 1"	4,950, 16' 2"

* Without shoe grouser

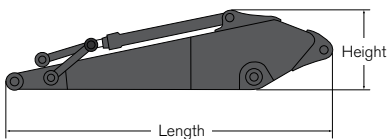
• Boom



Description		6.6 m, 21' 8"	7.7 m, 25' 3"
Length	mm, ft-in	6,890, 22' 7"	8,020, 26' 4"
Height	mm, ft-in	2,530, 8' 4"	1,970, 6' 6"
Width	mm, ft-in	1,110, 3' 7"	1,110, 3' 7"
Weight	kg, lb	6,550, 14,440	6,900, 15,210

* Includes arm cylinder, piping and pin

• Arm

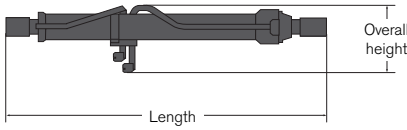


Description		2.9 m, 9' 6"	3.55 m, 11' 8"	4.2 m, 13' 9"	5.2 m, 17' 1"
Length	mm, ft-in	4,260, 14' 0"	4,940, 16' 2"	5,590, 18' 4"	6,590, 21' 8"
Height	mm, ft-in	1,530, 5' 0"	1,390, 4' 11"	1,390, 4' 11"	1,430, 4' 8"
Width	mm, ft-in	740, 2' 5"	740, 2' 5"	740, 2' 5"	740, 2' 5"
Weight	kg, lb	3,510, 7,740	3,670, 8,090	3,900, 8,600	4,250, 9,390

* Includes bucket cylinder, linkage and pin

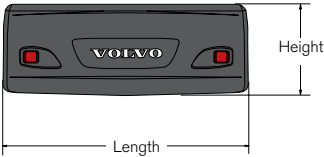
Dimensions

• Cylinder



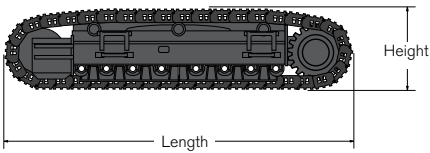
Length	Height	Width	Weight
2,765 mm 9' 1"	560 mm 1' 10"	370 mm 1' 3"	540 kg x 2 set = 1,080 kg 1,190 lb x 2 set = 2,380

• Counterweight



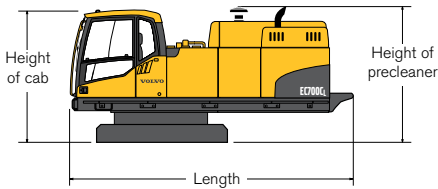
Length	Height	Width	Weight
3,420 mm 11' 3"	1,280 mm 4' 2"	800 mm 2' 8"	11,400 kg 25,130 lb

• Shoes



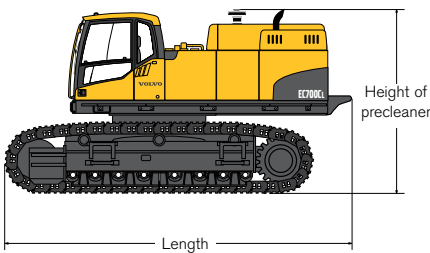
Shoe width	Length	Height	Overall width	Weight / unit
650 mm 26"	5,990 mm 19' 8"	1,375 mm 4' 6"	700 mm 2' 4"	10,400 kg 22,930 lb
750 mm 30"	5,990 mm 19' 8"	1,375 mm 4' 6"	750 mm 2' 6"	10,750 kg 23,700 lb
900 mm 36"	5,990 mm 19' 8"	1,375 mm 4' 6"	900 mm 2' 11"	11,250 kg 24,800 lb

• Cab



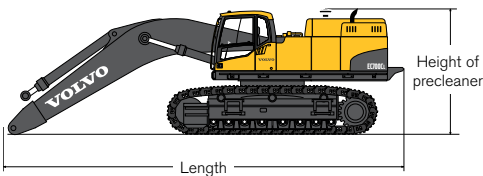
Length	Height of cab	Height of precleaner	Width	Weight
5,500 mm 18' 1"	2,655 mm 8' 9"	2,735 mm 9' 0"	3,430 mm 11' 3"	21,700 kg 47,840 lb

• Cab with shoes



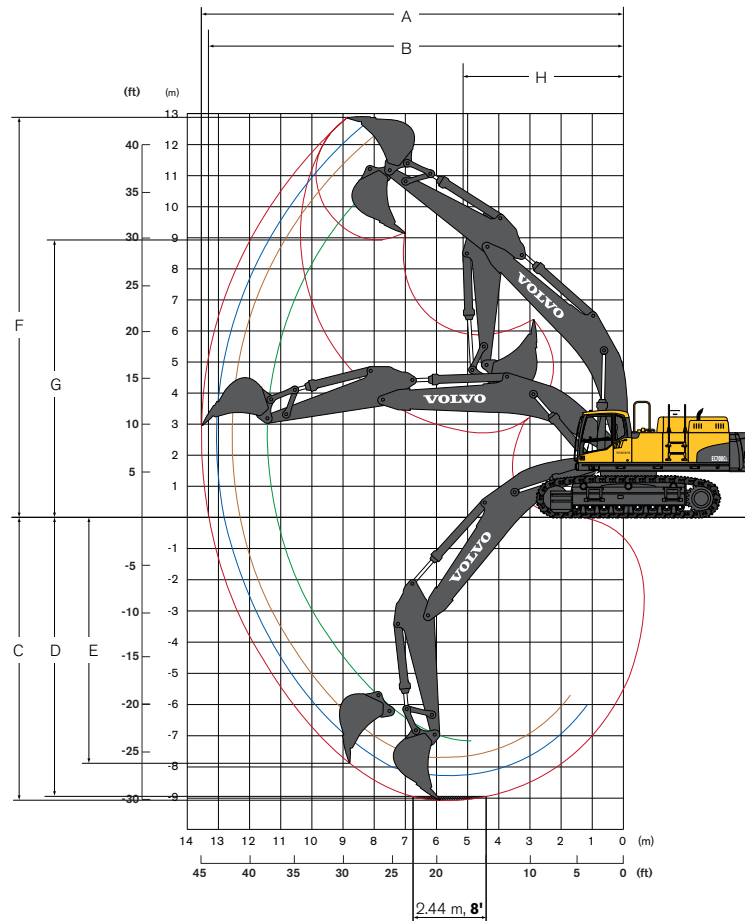
Shoe width	Length	Height of precleaner	Overall width (retracted)	Weight
650 mm 26"	6,730 mm 22' 1"	3,590 mm 11' 9"	3,520 mm 11' 6"	44,500 kg 98,100 lb
750 mm 30"	6,730 mm 22' 1"	3,590 mm 11' 9"	3,520 mm 11' 6"	44,500 kg 98,100 lb
900 mm 36"	6,730 mm 22' 1"	3,590 mm 11' 9"	3,520 mm 11' 6"	44,500 kg 98,100 lb

• Cab with shoes and boom



Boom	Shoe width	Length	Height of precleaner	Overall width (retracted)	Weight
6.6 m 21' 8"	650 mm 26"	10,140 mm 33' 3"	3,590 mm 11' 9"	3,495 mm 11' 6"	50,550 kg 111,440 lb
	750 mm 30"	10,140 mm 33' 3"	3,590 mm 11' 9"	3,595 mm 11' 10"	51,250 kg 112,990 lb
	900 mm 36"	10,140 mm 33' 3"	3,590 mm 11' 9"	3,745 mm 12' 3"	52,250 kg 115,190 lb
7.7 m 25' 3"	650 mm 26"	11,280 mm 37' 0"	3,590 mm 11' 9"	3,495 mm 11' 6"	50,900 kg 112,210
	750 mm 30"	11,280 mm 37' 0"	3,590 mm 11' 9"	3,595 mm 11' 10"	51,600 kg 113,760 lb
	900 mm 36"	11,280 mm 37' 0"	3,590 mm 11' 9"	3,745 mm 12' 3"	52,600 kg 115,960 lb

Working ranges & digging force



• EC700CL

Machine with direct fit bucket		6.6 m, 21' 8"		7.7 m, 25' 3"		
		2.9 m, 9' 6"	2.9 m, 9' 6"	3.55 m, 11' 8"	4.2 m, 13' 9"	5.2 m, 17' 1"
A. Max. digging reach	mm, ft-in	11,500, 37' 9"	12,600, 41' 3"	13,170, 43' 3"	14,780, 48' 6"	14,730, 48' 4"
B. Max. digging reach on ground	mm, ft-in	11,200, 36' 9"	12,335, 40' 6"	12,910, 42' 4"	13,540, 44' 5"	14,500, 47' 7"
C. Max. digging depth	mm, ft-in	7,250, 23' 9"	7,755, 25' 4"	8,400, 27' 7"	9,055, 29' 8"	10,055, 33' 0"
D. Max. digging depth (8' level)	mm, ft-in	7,100, 23' 4"	7,605, 25' 0"	8,270, 27' 7"	8,935, 29' 4"	9,950, 32' 8"
E. Max. vertical wall digging depth	mm, ft-in	5,065, 16' 7"	6,780, 22' 2"	7,250, 23' 9"	7,855, 28' 3"	8,790, 28' 10"
F. Max. cutting height	mm, ft-in	10,980, 36' 0"	12,490, 41' 0"	12,620, 41' 5"	12,940, 42' 6"	13,420, 44' 0"
G. Max. dumping height	mm, ft-in	6,960, 22' 9"	8,410, 27' 7"	8,610, 28' 2"	8,930, 29' 4"	9,400, 30' 10"
H. Min. front swing radius	mm, ft-in	5,160, 16' 11"	5,480, 18' 10"	5,410, 17' 10"	5,470, 17' 11"	5,560, 18' 3"












Digging forces with direct fit bucket		6.6 m, 21' 8"		7.7 m, 25' 3"		
		2.9 m, 9' 6"	2.9 m, 9' 6"	3.55 m, 11' 8"	4.2 m, 13' 9"	5.2 m, 17' 1"
Bucket radius	mm, ft-in	2,215, 7' 3"	2,150, 7' 1"	2,150, 7' 1"	2,150, 7' 1"	2,150, 7' 1"
Breakout force - bucket (Normal/Power boost)	ISO 6015 kN lb	342 / 374 76,880 / 84,075	326 / 356 73,285 / 80,030	326 / 356 73,285 / 80,030	326 / 356 73,285 / 80,030	326 / 356 73,285 / 80,030
Tearout force - arm (Normal/Power boost)	ISO 6015 kN lb	298 / 326 66,990 / 73,286	303 / 332 68,115 / 74,630	265 / 290 59,570 / 65,190	236 / 258 53,050 / 58,000	200 / 215 44,960 / 48,330
Rotation angle, bucket	deg.	172	173	173	173	173

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.

• EC700CL

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	4.5 m, 15'		6.0 m, 20'		7.5 m, 25'		9.0 m, 30'		10.5 m, 35'		Max. reach											
																Max.							
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m/ft					
 Across undercarriage  Along undercarriage Boom 6.6 m, 21' 8" ME + Arm 2.9 m, 9' 6" ME + Shoe 650 mm, 26" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																						
	9 m 30'																						
	7.5 m 25'																						
	6 m 20'																						
	4.5 m 15'	28.9	63,710	28.9	63,710	21.9	48,370	21.9	48,370	18.4	40,740	17.9	39,620	15.5	34,170	13.4	29,630	15.0	33,270				
	3 m 10'																						
	1.5 m 5'	31.6	69,800	31.6	69,800	26.1	57,560	23.1	51,100	20.6	45,570	16.7	36,910	17.2	37,990	12.8	28,370	14.0	30,910				
	0 m 0'	35.3	77,820	35.3	77,820	26.4	58,310	22.6	49,930	20.8	45,940	16.4	36,160										
	-1.5 m -5'	32.8	72,420	32.8	72,420	25.2	55,730	22.5	49,670	19.8	43,650	16.3	35,980										
	-3 m -10'	28.4	62,700	28.4	62,700	22.1	48,830																
-4.5 m -15'	20.6	45,500	20.6	45,500																			
-6 m -20'																							
-7.5 m -25'																							
Boom 7.7 m, 25' 3" + Arm 2.9 m, 9' 6" + Shoe 650 mm, 26" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																			16.9	37,430		
	9 m 30'																				15.4	34,150	
	7.5 m 25'																				14.7	32,430	
	6 m 20'																				14.4	31,800	
	4.5 m 15'																				14.2	31,380	
	3 m 10'																				14.1	31,170	
	1.5 m 5'																				14.0	31,020	
	0 m 0'																				13.9	30,780	
	-1.5 m -5'	26.4	58,380	26.4	58,380	23.6	52,050	21.4	47,200	19.0	42,040	15.4	33,950	15.3	33,910	12.0	26,520	13.7	30,250	11.0	24,400		
	-3 m -10'	25.0	55,160	25.0	55,160	20.9	46,230	20.9	46,230	16.9	37,410	15.6	34,460								13.1	28,920	
-4.5 m -15'	19.6	43,250	19.6	43,250	16.5	36,550	16.5	36,550	12.4	27,360	12.4	27,360								11.6	25,730		
-6 m -20'																							
-7.5 m -25'																							
Boom 7.7 m, 25' 3" + Arm 3.55 m, 11' 8" + Shoe 650 mm, 26" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																				13.0	28,770	
	9 m 30'																					11.9	24,430
	7.5 m 25'																					11.5	25,350
	6 m 20'																					11.3	25,070
	4.5 m 15'																					11.1	25,070
	3 m 10'																					10.9	24,920
	1.5 m 5'																					10.7	24,920
	0 m 0'																					10.5	24,920
	-1.5 m -5'	27.0	59,610	27.0	59,610	24.4	53,950	21.3	47,090	19.5	43,080	15.3	33,930	15.8	35,030	11.9	26,300	13.7	30,380	11.0	27,780		
	-3 m -10'	27.7	61,180	27.7	61,180	22.3	49,320	21.5	47,420	18.0	39,710	15.4	34,080	14.2	31,420	12.0	26,540	12.6	27,780	9.2	22,780		
-4.5 m -15'	22.9	50,550	22.9	50,550	18.8	41,470	18.8	41,470	14.8	32,780	14.8	32,780								12.0	26,450		
-6 m -20'	15.5	34,220	15.5	34,220	12.5	27,580	12.5	27,580													9.7	21,560	
-7.5 m -25'																							
Boom 7.7 m, 25' 3" + Arm 4.2 m, 13' 9" + Shoe 650 mm, 26" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																				10.4	23,000	
	9 m 30'																					9.6	23,320
	7.5 m 25'																					9.3	20,530
	6 m 20'																					9.2	20,280
	4.5 m 15'																					9.2	20,280
	3 m 10'																					9.0	20,480
	1.5 m 5'																					8.8	19,400
	0 m 0'	19.0	42,020	19.0	42,020	25.1	55,380	21.3	47,020	19.6	43,340	15.4	33,970	16.1	35,520	11.8	26,170	13.5	29,890	9.5	20,940		
	-1.5 m -5'	25.9	57,280	25.9	57,280	24.6	45,390	21.0	46,340	19.5	43,030	15.1	33,360	15.9	35,080	11.6	25,730	13.0	28,730	9.4	20,790		
	-3 m -10'	29.5	65,120	29.5	65,120	23.1	50,970	21.0	46,390	18.4	40,720	15.0	33,270	14.8	32,800	11.6	25,750	12.0	26,520	9.9	21,850		
-4.5 m -15'	25.3	55,930	25.3	55,930	20.2	44,690	20.2	44,690	16.1	35,630	15.3	33,780	12.2	27,010	11.9	26,370	11.5	25,420	11.5	25,420			
-6 m -20'	19.0	42,090	19.0	42,090	15.4	33,950	15.4	33,950	11.3	25,090	11.3	25,090								10.2	22,490		
-7.5 m -25'																							
Boom 7.7 m, 25' 3" + Arm 5.2 m, 17' 1" + Shoe 650 mm, 26" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																				7.6	16,910	
	9 m 30'																					7.1	15,830
	7.5 m 25'																					6.9	15,280
	6 m 20'																					6.8	15,100
	4.5 m 15'																					6.9	15,210
	3 m 10'																					7.0	15,610
	1.5 m 5'																					7.4	16,360
	0 m 0'	21.5	47,600	21.5	47,600	24.2	53,550	21.3	47,090	18.9	41,680	15.3	33,890	15.5	34,190	11.7	25,920	13.1	29,010	9.3	20,570		
	-1.5 m -5'	25.0	55,120	25.0	55,120	24.6	45,280	20.7	45,770	19.2	42,480	14.9	32,850	15.7	34,630	11.4	25,220	13.1	28,920	9.1	20,130		
	-3 m -10'	31.5	69,510	31.5	69,510	23.8	52,620	20.5	45,300	18.8	41,540	14.7	32,410	15.2	33,700	11.3	24,910	12.4	27,450	9.0	20,040		
-4.5 m -15'	28.4	62,610	28.4	62,610	21.9	48,410	20.6	45,570	17.4	38,440	14.7	32,520	13.9	30,710	11.3	25,070	10.9	21,850	8.2	18,250			
-6 m -20'	23.5	51,940	23.5	51,940	18.5	40,850	18.5	40,850	14.5	32,120	14.5	32,120	10.6	23,520	10.6	23,520	10.0	22,160	10.0	22,160			
-7.5 m -25'	16.0	35,430	16.0	35,430	12.5	27,690	12.5	27,690													8.3	18,450	










- 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.

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.

• EC700CL

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	4.5 m, 15'		6.0 m, 20'		7.5 m, 25'		9.0 m, 30'		10.5 m, 35'		Max. reach						
																Max.		
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m/ft
Boom 6.6 m, 21' 8" + Arm 2.9 m, 9' 6" without bucket + Shoe 750 mm, 30" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																	
	9 m 30'																	
	7.5 m 25'																	
	6 m 20'																	
	4.5 m 15'	28.9	*63,710	28.9	*63,710	*19.4	*42,940	*19.4	*42,940	*17.3	*38,270	*17.3	*38,270			*15.0	*33,270	6.7 / 22.0
	3 m 10'															*13.6	*30,160	8.6 / 28.2
	1.5 m 5'	*31.6	*69,800	*31.6	*69,800	*26.1	*57,560	23.7	51,610	*20.6	*45,570	16.9	37,280	*17.2	*37,990	13.0	28,660	9.1 / 29.9
	0 m 0'	*35.3	*77,820	*35.3	*77,820	*26.4	*58,310	22.8	50,440	*20.8	*45,940	16.5	36,510			*16.9	*37,370	8.9 / 29.2
	-1.5 m -5'	*32.8	*72,420	*32.8	*72,420	*25.2	*55,730	22.7	50,180	*19.8	*43,650	16.4	36,350			*16.9	*37,460	8.3 / 27.2
	-3 m -10'	*28.4	*62,700	*28.4	*62,700	*22.1	*48,830									*16.5	*36,570	7.4 / 24.3
-4.5 m -15'	*20.6	*45,500													*14.7	*32,540	6.0 / 23.0	
-6 m -20'																		
-7.5 m -25'																		
Boom 7.7 m, 25' 3" + Arm 2.9 m, 9' 6" without bucket + Shoe 750 mm, 30" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																	
	9 m 30'																	
	7.5 m 25'																	
	6 m 20'																	
	4.5 m 15'																	
	3 m 10'																	
	1.5 m 5'																	
	0 m 0'																	
	-1.5 m -5'	*26.4	*58,380	*26.4	*58,380	*23.6	*52,050	21.6	47,730	*19.0	*42,040	15.6	34,390	*15.3	*39,910	12.1	26,830	8.8 / 28.9
	-3 m -10'	*25.0	*55,160	*25.0	*55,160	*20.9	*46,230	21.6	47,730	*19.0	*42,040	15.6	34,390			*13.7	*30,250	9.6 / 31.5
-4.5 m -15'	*19.6	*43,250	*19.6	*43,250	*16.5	*36,550									*11.6	*25,730	7.7 / 25.3	
-6 m -20'																		
-7.5 m -25'																		
Boom 7.7 m, 25' 3" + Arm 3.55 m, 11' 8" without bucket + Shoe 750 mm, 30" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																	
	9 m 30'																	
	7.5 m 25'																	
	6 m 20'																	
	4.5 m 15'																	
	3 m 10'																	
	1.5 m 5'																	
	0 m 0'																	
	-1.5 m -5'	*27.0	*59,610	*27.0	*59,610	*24.5	*54,010	21.6	47,660	*19.5	*43,140	15.5	34,370	*15.9	*35,120	12.0	26,650	10.1 / 33.1
	-3 m -10'	*27.7	*61,180	*27.7	*61,180	*22.4	*49,410	21.7	47,990	*18.0	*39,770	15.6	34,520			*12.8	*28,350	9.5 / 31.2
-4.5 m -15'	*22.9	*50,550	*22.9	*50,550	*18.8	*41,540	18.8	41,540	*14.9	*32,870	14.9	32,870			*12.0	*26,520	8.4 / 27.6	
-6 m -20'	*15.5	*34,220	*15.5	*34,220	*12.5	*27,670									*9.8	*21,650	6.9 / 22.6	
-7.5 m -25'																		
Boom 7.7 m, 25' 3" + Arm 4.2 m, 13' 9" without bucket + Shoe 750 mm, 30" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																	
	9 m 30'																	
	7.5 m 25'																	
	6 m 20'																	
	4.5 m 15'																	
	3 m 10'																	
	1.5 m 5'																	
	0 m 0'																	
	-1.5 m -5'	*19.0	*42,020	*19.0	*42,020	*25.1	*55,380	21.5	47,510	*19.6	*43,340	15.5	34,350	*16.1	*35,520	12.0	26,460	10.9 / 35.8
	-3 m -10'	*25.9	*57,280	*25.9	*57,280	*24.6	*45,390	21.2	46,850	*19.5	*43,030	15.2	33,710	*15.9	*35,080	11.8	26,040	9.5 / 31.2
-4.5 m -15'	*25.3	*55,930	*25.3	*55,930	*20.2	*44,690	*20.2	*44,690	*16.1	*35,630	15.4	34,130			*11.5	*25,420	9.2 / 30.2	
-6 m -20'	*19.0	*42,090	*19.0	*42,090	*15.4	*33,950									*10.2	*22,490	7.8 / 25.6	
-7.5 m -25'																		
Boom 7.7 m, 25' 3" + Arm 5.2 m, 17' 1" without bucket + Shoe 750 mm, 30" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																	
	9 m 30'																	
	7.5 m 25'																	
	6 m 20'																	
	4.5 m 15'																	
	3 m 10'																	
	1.5 m 5'																	
	0 m 0'																	
	-1.5 m -5'	*21.5	*47,600	*21.5	*47,600	*24.2	*53,550	21.5	47,600	*18.9	*41,690	15.5	34,240	*15.5	*34,190	11.8	26,210	12.3 / 40.4
	-3 m -10'	*25.0	*55,120	*25.0	*55,120	*24.6	*54,280	20.9	46,250	*19.2	*42,480	15.0	33,220	*15.7	*34,630	11.5	25,510	11.9 / 39.0
-4.5 m -15'	*31.5	*69,510	*31.5	*69,510	*23.8	*52,620	20.7	45,810	*18.8	*41,540	14.8	32,780	*15.2	*33,700	11.4	25,200	11.3 / 37.1	
-6 m -20'	*23.5	*51,940	*23.5	*51,940	*18.5	*40,850	*18.5	*40,850	*14.5	*32,120	14.5	32,120			*10.0	*22,160	9.2 / 30.2	
-7.5 m -25'	*16.0	*35,430	*16.0	*35,430	*12.5	*27,690									*8.3	*18,450	7.5 / 24.6	










- 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.

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.

• EC700CL

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	4.5 m, 15'		6.0 m, 20'		7.5 m, 25'		9.0 m, 30'		10.5 m, 35'		Max. reach							
																Max.			
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m/ft	
Boom 6.6 m, 21' 8" ME + Arm 2.9 m, 9' 6" ME + Shoe 900 mm, 36" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																		
	9 m 30'																		
	7.5 m 25'																		
	6 m 20'																		
	4.5 m 15'	28.9	*63,710	28.9	*63,710	21.9	*48,370	21.9	*48,370	18.4	*40,740	18.4	40,520	15.5	*34,170	13.7	30,340		
	3 m 10'			24.4	*53,880	24.4	*53,880	19.7	*43,520	17.7	39,040	17.0	*37,480	13.4	29,670				
	1.5 m 5'	31.6	*69,800	31.6	*69,800	26.1	*57,560	23.7	52,320	20.6	*45,570	17.1	37,810	17.2	*37,990	13.1	29,080		
	0 m 0'	35.3	*77,820	35.3	*77,820	26.4	*58,310	23.2	51,150	20.8	*45,940	16.8	37,040						
	-1.5 m -5'	32.8	*72,420	32.8	*72,420	25.2	*55,730	23.0	50,880	19.8	*43,650	16.7	36,880						
	-3 m -10'	28.4	*62,700	28.4	*62,700	22.1	*48,830												
-4.5 m -15'	20.6	*45,500	20.6	*45,500															
-6 m -20'																			
-7.5 m -25'																			
Boom 7.7 m, 25' 3" + Arm 2.9 m, 9' 6" + Shoe 900 mm, 36" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																		
	9 m 30'																		
	7.5 m 25'																		
	6 m 20'																		
	4.5 m 15'			20.1	*44,380	20.1	*44,380	16.9	*37,280	16.9	*37,280	15.0	*33,160	13.7	30,310				
	3 m 10'			22.6	*49,980	22.6	*49,980	18.1	*40,080	17.5	38,740	15.6	*34,410	13.3	29,410				
	1.5 m 5'			24.7	*54,540	23.0	50,880	19.3	*42,660	16.8	37,040	16.1	*35,690	12.9	28,480				
	0 m 0'			25.5	*56,330	22.2	49,100	20.0	*44,160	16.2	35,780	16.5	*36,420	12.5	27,710				
	-1.5 m -5'	26.4	*58,380	26.4	*58,380	23.6	*52,050	21.9	48,410	19.0	*42,040	15.8	34,920	15.3	*33,910	12.3	27,250		
	-3 m -10'	25.0	*55,160	25.0	*55,160	20.9	*46,230	20.9	*46,230	16.9	*37,410	16.0	35,340						
-4.5 m -15'	19.6	*43,250	19.6	*43,250	16.5	*36,550	16.5	*36,550	12.4	*27,360	12.4	*27,360							
-6 m -20'																			
-7.5 m -25'																			
Boom 7.7 m, 25' 3" + Arm 3.55 m, 11' 8" + Shoe 900 mm, 36" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																		
	9 m 30'																		
	7.5 m 25'																		
	6 m 20'																		
	4.5 m 15'			18.8	*41,580	18.8	*41,580	16.0	*35,410	16.0	*35,410	14.3	*31,640	14.0	31,010				
	3 m 10'			21.5	*47,440	21.5	*47,440	17.4	*38,510	17.4	*38,510	15.0	*33,220	13.6	30,030	13.5	29,850	10.6	23,460
	1.5 m 5'			23.9	*52,760	23.7	52,380	18.8	*41,510	17.1	37,880	15.8	*34,860	13.1	28,990	13.8	*30,470	10.4	22,950
	0 m 0'			25.3	*55,820	22.7	50,090	19.7	*43,610	16.3	36,400	16.3	*36,050	12.7	28,090	13.9	*30,750	10.1	22,470
	-1.5 m -5'	27.0	*59,610	27.0	*59,610	24.5	*54,010	22.0	48,630	19.5	*43,140	15.9	35,080	15.9	*35,120	12.3	27,230		
	-3 m -10'	27.7	*61,180	27.7	*61,180	22.4	*49,410	22.2	48,960	18.0	*39,770	15.9	35,230	14.2	*31,500	12.4	27,470		
-4.5 m -15'	22.9	*50,550	22.9	*50,550	18.8	*41,540	18.8	*41,540	14.9	*32,870	14.9	*32,870							
-6 m -20'	15.5	*34,220	15.5	*34,220	12.5	*27,670	12.5	*27,670											
-7.5 m -25'																			
Boom 7.7 m, 25' 3" + Arm 4.2 m, 13' 9" + Shoe 900 mm, 36" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																		
	9 m 30'																		
	7.5 m 25'																		
	6 m 20'																		
	4.5 m 15'			19.9	*43,940	19.9	*43,940	16.3	*36,090	16.3	*36,090	14.2	*31,310	13.5	29,920	12.7	*28,200	10.5	23,260
	3 m 10'			22.5	*49,780	22.5	*49,780	17.8	*39,400	17.1	37,790	15.0	*33,220	13.0	28,730	13.2	*29,120	10.2	22,600
	1.5 m 5'			24.4	*53,860	22.6	49,890	19.0	*42,020	16.3	36,070	15.7	*34,770	12.5	27,670	13.5	*29,830	9.9	21,980
	0 m 0'	19.0	*42,020	19.0	*42,020	25.1	*55,380	21.8	48,240	19.6	*43,340	15.8	34,880	16.1	*35,520	12.1	26,870	13.5	*29,890
	-1.5 m -5'	25.9	*57,280	25.9	*57,280	24.6	*45,390	21.5	47,550	19.5	*43,030	15.5	34,240	15.9	*35,080	12.0	26,460	13.0	*28,730
	-3 m -10'	29.5	*65,120	29.5	*65,120	23.1	*50,970	21.5	47,600	18.4	*40,720	15.5	34,170	14.8	*32,800	12.0	26,460		
-4.5 m -15'	25.3	*55,930	25.3	*55,930	20.2	*44,690	20.2	*44,690	16.1	*35,630	15.7	34,660	12.2	*27,010	12.1	26,680			
-6 m -20'	19.0	*42,090	19.0	*42,090	15.4	*33,950	15.4	*33,950	11.3	*25,090	11.3	*25,090							
-7.5 m -25'																			
Boom 7.7 m, 25' 3" + Arm 5.2 m, 17' 1" + Shoe 900 mm, 36" + Counterweight 11,300 kg, 24,920 lb	10.5 m 35'																		
	9 m 30'																		
	7.5 m 25'																		
	6 m 20'																		
	4.5 m 15'																		
	3 m 10'			20.4	*45,000	20.4	*45,000	16.3	*36,130	16.3	*36,130	13.9	*30,730	13.1	28,970	12.3	*27,140	10.2	22,620
	1.5 m 5'			22.8	*50,380	22.8	*50,380	17.8	*39,440	16.5	36,380	14.8	*32,780	12.5	27,890	12.8	*28,310	9.8	21,800
	0 m 0'	21.5	*47,600	21.5	*47,600	24.2	*53,550	21.3	48,300	18.9	*41,690	15.7	34,770	15.5	*34,190	12.0	26,630	13.1	*29,010
	-1.5 m -5'	25.0	*55,120	25.0	*55,120	24.6	*45,280	21.1	46,990	19.2	*42,480	15.3	33,750	15.7	*34,630	11.7	25,930	13.1	*28,920
	-3 m -10'	31.5	*69,510	31.5	*69,510	23.8	*52,620	21.1	46,520	18.8	*41,540	15.1	33,310	15.2	*33,700	11.6	25,620	12.4	*27,450
-4.5 m -15'	28.4	*62,610	28.4	*62,610	21.9	*48,410	21.2	46,780	17.4	*38,440	15.1	33,420	13.9	*30,710	11.6	25,770			
-6 m -20'	23.5	*51,940	23.5	*51,940	18.5	*40,850	18.5	*40,850	14.5	*32,120	14.5	*32,120	10.6	*23,520	10.6	*23,520			
-7.5 m -25'	16.0	*35,430	16.0	*35,430	12.5	*27,890	12.5	*27,890											

- 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 Tier 3 requirements

Automatic idling system

Air filter with indicator

Air intake 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

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 3
- Boom-mounted 4

Travel alarm

Batteries, 2 x 12 V / 225 Ah

Start motor, 28 V / 6.6 kW

Hydraulic system

Hose rupture valve: boom

Overload warning device

Automatic sensing hydraulic system:

- Summation system

- Boom priority

- Arm priority

- Swing priority

Boom and arm regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Boom float function

Pump flow control for hammer & shear

Multi-stage filtering system

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

11,300 kg, **24,920 lb**

Tool storage area

Service walkway with anti-slip grating

Undercover (heavy-duty 4.5 mm, **0.18"**)

Side walk-way

Cab and interior

Fabric seat with heater

Pilot-operated wrist control joysticks

with 3 switches each

Heater & air-conditioner, automatic

Hydraulic dampening cab mounts

Adjustable operator seat and joystick

control console

AM/FM stereo with CD player and MP3

input; includes flexible antenna

Hydraulic safety lock lever

Cab, all-weather sound suppression, includes:

- Ashtray

- Cup holder

- Lighter

- Door locks

- Tinted glass

- Floor mat

- Horn

- Large storage area

- Pull-up type front window

- Removable lower windshield

- Seat belt, 3-inch retractable

- Safety glass

- Sun shield, front, roof, rear

- Rain shield, front

- Windshield wiper with intermittent feature

Anti-vandalism kit assembly preparation

Master key

Undercarriage

Hydraulic track adjusters

Greased and sealed track chain

Track guard

Undercover (10 mm, **0.39"**)

Mechanically retractable track gauge

Track shoes

Track shoes, 900 mm, **36"** with

double grouser

Digging equipment

Boom: 7.7 m, **25' 3"**

Arm: 3.55 m, **11' 8"**

Centralized lubrication points

Service

Special tool for retractable frame

OPTIONAL EQUIPMENT

Engine

Block heater: 120V

Dual stage precleaner

Diesel coolant heater

Water separator with heater

Low noise kit

Fuel filler pump: 100 l/min **26.4 gpm**, with automatic shut-off

Electric

Extra lamps:

- Cab-mounted 1
- Upper structure-mounted 1

Swing alarm

Anti-theft system

Rotating warning beacon

Hydraulic system

Hose rupture valve: arm

Hammer & shear:

- 1 and 2 pump flow

- Additional return filter

- 1 switch control

- 2 switch control

- Pedal switch control

Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32

Hydraulic oil, biodegradable 46

Cab and interior

Fabric seat

Fabric seat with heater and air suspension

Control joystick with semi-long levers

Control joystick with 5 switches each

Falling object guard (FOG)

- Frame-mounted (356 kg, **785 lb**)

- Cab-mounted (153 kg, **337 lb**)

Cab-mounted falling object

protective structure (FOPS: 80 kg, **176 lb**)

Sunlight protection, roof (steel)

Foot support bar

Safety screen for front window

Lower wiper

Anti-vandalism kit

Undercarriage

Full track guard (190 kg, **419 lb** / unit)

Track shoes

650 mm, **26"**, 750 mm, **28"** track shoes with double grousers

Digging equipment

Boom: ME 6.6 m, **21' 8"**

Arm: 2.9 m, **9' 6"**

4.2 m, **13' 9"**

5.2 m, **17' 1"**

Service

Electric grease gun

Hand lamp

Special tool for retractable frame

Tool kit, full scale

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

NOTES



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 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

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Volvo Construction Equipment North America, Inc.
One Volvo Drive, Asheville, NC 28803-3447
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