

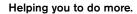
EC750D

Volvo Excavators 72.7-74.7 t 508 hp



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.



Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs.

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.





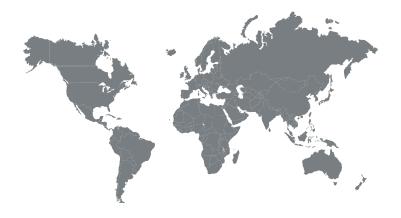
You learn a lot in 180 years.

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side.

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.













Volvo Trucks

Renault Trucks

































Volvo Penta

Volvo Financial Services

UD Trucks

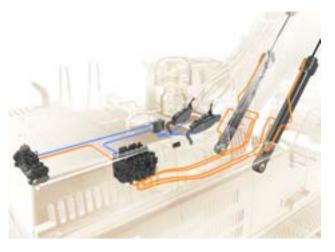
Volvo Construction Equipment

Gain more, pay less

Secure more profit and reduce your Total Cost of Ownership by increasing productivity and fuel efficiency. Do more for less on your job site with the EC750D's Volvo D16 engine, which delivers increased horsepower and fuel efficiency. The machine's electro hydraulic system provides high productivity and excellent control.

Electro hydraulic system

Enhance fuel efficiency while increasing productivity and performance. The new and improved Volvo designed electrohydraulic system uses intelligent technology to control on-demand flow and reduces internal losses in the hydraulic circuit. This provides superior digging force, shortens cycle times and increases controllability.



Increased bucket capacity

The EC750D delivers more tons per hour, fitted with larger buckets for faster and more efficient on site production. To gain profitability, the increased horsepower, hydraulic pressure and flow enable the machine to perform at optimal capacity, loading more material in one load for greater productivity.



Work modes

Volvo's unique integrated work mode system now includes the G4 mode for optimum fuel efficiency and performance, incorporating the work modes within the throttle control. When the operator selects the best work mode for the task at hand – I (idle), F (fine), G (General), H (Heavy) and P (Power) – the rpm is already set for maximum efficiency.



Volvo Cab

The comfortable, low noise environment and adjustable seat increases operator efficiency and capacity to improve production. Volvo's industry-leading cab boasts superior visibility from large expanses of front and side glass with slim cab pillars and the spacious environment provides ample storage and leg room.

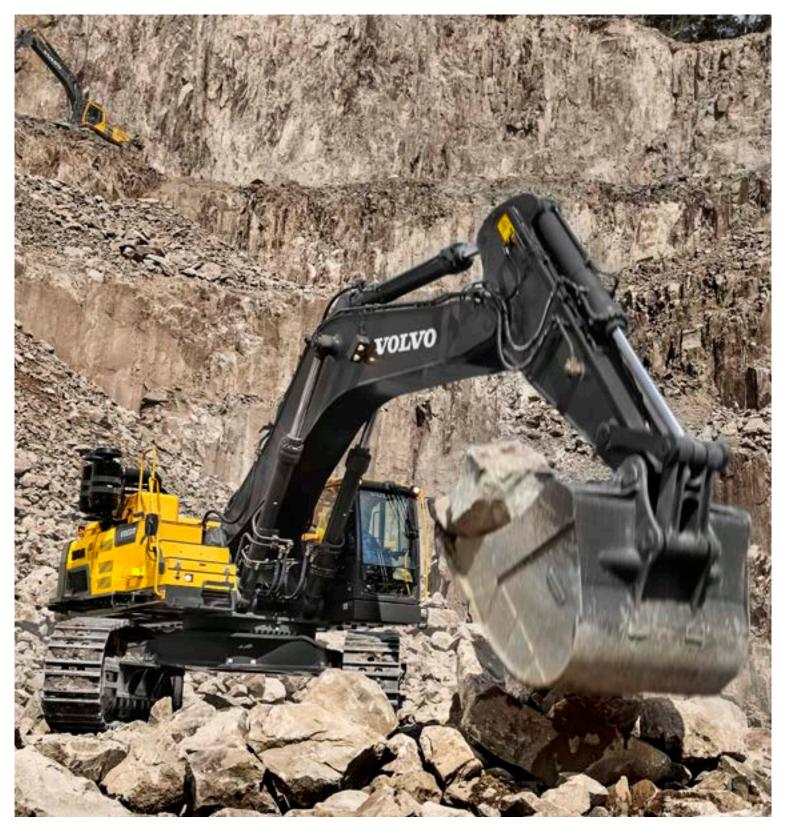




VOLVO D16 ENGINE



Featuring advanced technology and built on decades of experience, the new Volvo D16 engine delivers 11% increased horsepower for the ultimate combination of high productivity and increased fuel efficiency.



DIGGING FORCE



Get the job done faster with ease because of the EC750D's constant high system pressure, which delivers greater digging force and reduced cycle times, particularly when working with hard and heavy materials.

A star performance

The EC750D's outstanding digging force gets the job done whether you're working at a mine, quarry or in heavy construction applications. The EC750D digs, swings and loads using the most efficient technology and its improved stability, tractive force and Eco Mode, delivers low fuel consumption and improved cycle times for a star performance.

Improved stability

Improve your stability and work in more challenging environments with the machine's wider track gauge and heavier counterweight, which both contribute towards a well-balanced and solid machine when operating in adverse terrains.



Tractive force

For more power, better productivity and ease of moving around your jobsite, the machine's high system pressure and durable track ensure impressive tractive force when climbing gradients and travelling over unstable ground. Perform more tasks in hard to reach areas of your jobsite.



ECO Mode

Save fuel without any loss of performance in most operating conditions. Volvo's unique ECO Mode optimizes the hydraulic system to reduce flow and pressure losses, for improved fuel efficiency. ECO Mode is automatically selected but can be switched off via the keypad.



Improved cycle time

Get more done in less time. The Volvo hydraulic system, leads to a more powerful and combined pump flow to the bucket for smooth operation, improved cycle time and increased fuel efficiency. The optional boom float delivers more control, fast minimizes operation costs and maximizes uptime.

Strong, solid and superior

Use the best machine for the job in tough working conditions. The EC750D is built using durable Volvo components, a reinforced structure and machine protection for a longer life in tough environments. Robust parts and easy service access increase uptime and keep maintenance to a minimum to reduce operating costs.

Durable Volvo components

Volvo's tried and tested components have proven to be reliable even in the toughest applications, delivering maximum uptime. Volvo's commitment to its development process and quality levels ensures that its rigorous testing procedures produce the best quality components and machines.



Reinforced structure

The reinforced upper and lower frame are built to withstand tougher conditions for improved durability and reliability. The reinforced idler frame, track links and bottom rollers are designed and built for constant impact, leading to machine longevity and a sustained level of uptime in demanding applications.



Easy service access

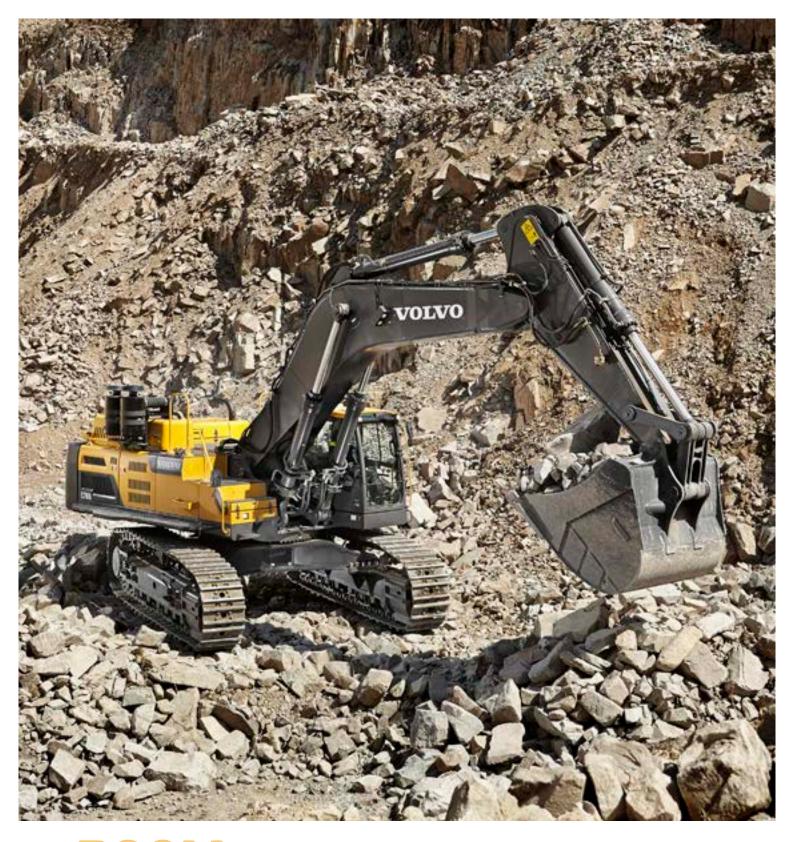
Grouped filters and the electric distribution box are easily accessed via the wide-opening compartment doors and walkways. Greasing points can all be accessed in one machine position and the EC750D's design facilitates easy cleaning, inspection and maintenance for increased uptime.



Undercover protection

For increased durability and to protect components, the built-in heavy-duty plate provides additional protection to the underside of the machine in hard applications – preventing damage from rocks and debris.

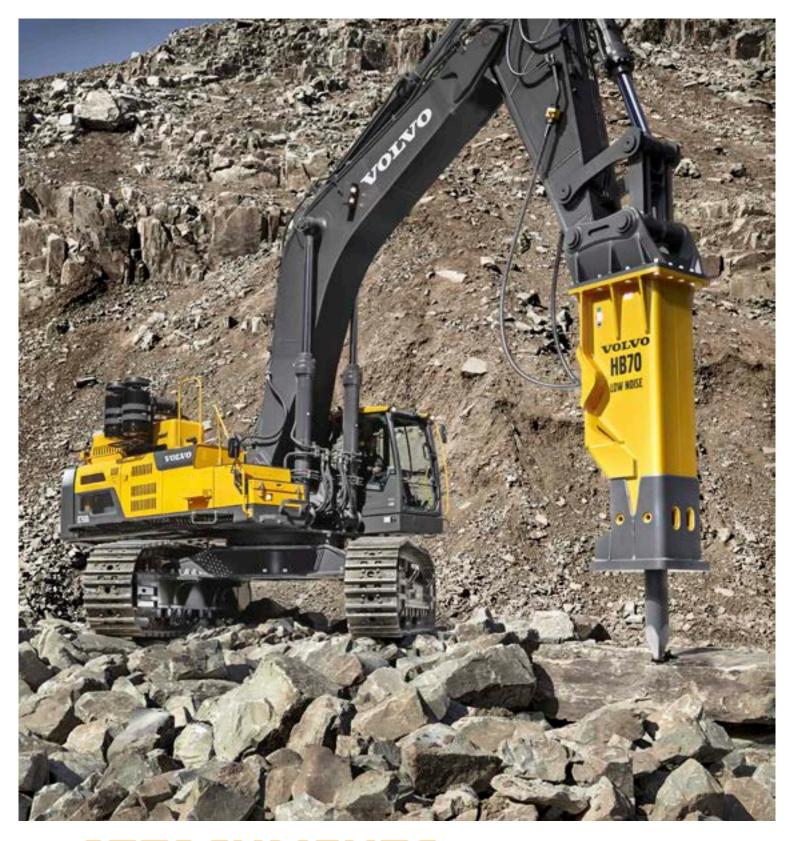




BOOM AND ARM



The reinforced heavy-duty boom and arm built from high strength tensile steel increases reliability and machine uptime, even in severe applications. Steel strips are welded under the arm to further increase protection and various boom and arm configurations are available to suit any bucket size or application.



ATTACHMENTS



Volvo's attachments have been purpose-built to work in perfect harmony with Volvo machines, forming one solid, reliable unit. With functions and properties ideally matched, Volvo attachments are an integrated part of the excavator for which they're intended –delivering maximum productivity.

Strength in numbers

Maximize your productivity and profitability with Volvo's EC750D excavator and a range of durable attachments. Increase your versatility, access more applications and perform a variety of tasks on one job – all while experiencing faster cycle times and excellent control.

HD Buckets

Volvo's heavy-duty bucket, built using wear resistant plates, excels at digging compact materials including loose rock, hard clay and gravel. It's perfect for quarrying and mining applications and is made out of reinforced high quality durable materials for a long life and superior performance.

Universal Quick Coupler

Volvo offers a Universal quick coupler which perfectly matches Volvo's bucket range. The Volvo Universal quick coupler also picks up a variety of attachments from various manufacturers and the Volvo front-pin lock quick coupler meets the latest safety regulations.





Genuine Volvo Wear Parts

The positioning of Genuine Volvo wear parts cover critical areas, which protect the bucket and prolongs its lifespan. A wide range of wear parts are offered to protect your complete bucket, such as teeth, adapter, segments, side cutter and shroud. Strong high tensile steel has been used to increase the bucket's durability.

Attachment Management System

The password protected attachment management system allows storage for up to 20 different attachments. The system allows the operator to pre-set hydraulic flow and pressure inside the cab through the monitor, which ensures the use of various attachments for increased versatility.



Tough it out

ECO Mode

Save fuel without any loss of performance in most operating conditions with Volvo's unique ECO Mode.

BOOM AND ARM



The reinforced heavy-duty boom and arm increases reliability and machine uptime, even in challenging applications.

Electro hydraulic system

The electro-hydraulic system uses intelligent technology to control on-demand flow and reduce losses in the hydraulic circuit.

Durable Volvo components

Volvo's tried and tested components have proven to be reliable even in the toughest applications.

DIGGING FORCE



The constant high system pressure delivers greater digging force and reduced cycle times to get the job done faster.

ATTACHMENTS



A range of Volvo attachments including hard wearing buckets are an integrated part of the excavator, delivering maximum productivity.

Increased bucket capacity

The EC750D delivers more tons per hour, fitted with larger buckets for faster and more efficient on site production.







Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services.



Reinforced structure

The reinforced upper and lower frame are built to withstand tougher conditions for improved durability and reliability.

Easy service access

The EC750D's design facilitates easy cleaning, inspection and maintenance for increased uptime.

Adding value to your business

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.

Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.





Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



UAT Service Network

In order to respond to your needs faster, a Volvo expert is on the way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.







CUSTOMER SUPPORT AGREEMENTS



The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

Volvo EC750D in detail

Engine

The Volvo diesel engine delivers lower emissions, superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and intercooler, and electronic engine controls to optimize machine performance. Air Filter: 3-stage with precleaner.

Air Filter: 3-stage with precleaner.
Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Volvo	D16E
Max power at	r/s	30
	r/min	1 800
Net, ISO 9249/SAE J1349	kW	374
	hp	508
Gross, ISO 14396/SAE J1995	kW	385
	hp	523
Max torque	N m	2 500
at engine speed	r/min	1 340
No. of cylinders		6
Displacement	L	16.1
Bore	mm	144
Stroke	mm	165

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	V	24
Batteries	V	2 x 12
Battery capacity	Ah	210
Alternator	V/Ah	28 / 80
Service Refill		
Fuel tank	L	840
Hydraulic system, total	L	655
Hydraulic tank	L	350
Engine oil	L	49
Engine coolant	L	66
Slew reduction unit	L	2 x 6.8
Travel reduction unit	L	2 x 13.5

Swing System

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

Max. slew speed	r/min	7
Max. slew torque	kN m	275.40

Drive

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

Max. drawbar pull	kN	478
Max. travel speed	km/h	2.9 / 4.6
Gradeability	٥	35

Undercarriage

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

Track shoes		2 x 48
Link pitch	mm	260
Shoe width, double grouser	mm	650/750/900
Bottom rollers		2 x 8
Top rollers		2 x 3

Hydraulic System

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high-productivity, high-digging capacity 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

productivity.

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	L/min	2 x 450					
Pilot pump. Type Gear pump							
Maximum flow	L/min	1 x 34.5					

Hydraulic Motors

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

Relief valve setting

Mono boom		0
Hydraulic Cylinders		
Pilot circuit	MPa	3.9
Slew circuit	MPa	26.5
Travel circuit	MPa	34.3
Implement	MPa	34.3

	2
ø x mm	190 x 1 790
	1
ø x mm	215 x 2 070
	1
ø x mm	190 x 1 450
	1
ø x mm	200 x 1 450
	ø x mm

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 12 different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to ISO 6396						
LpA	dB(A)	72				
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009						
LwA	dB(A)	110				

Specifications

GROUND PRESSURE										
			EC750D							
	Boom 6.6m, Arm 2.9m, Boom 7.7 m, Arm 2.9m, Bucket 4 850kg Bucket 4 000kg					Boom 7.7 m, Arm 3.55m, Bucket 4 200kg				
		Counte	rweight 12	700kg	Counte	rweight 12	700kg	Counterweight 12 700kg		
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm	kg	kPa	mm
	650	73 180	106.4	4 185	73 000	106.1	4 185	73 400	106.7	4 185
Double grouser	750	73 880	93.1	4 190	73 700	92.8	4 190	74 100	93.3	4 190
· ·	900	74 980	78.7	4 340	74 800	78.5	4 340	75 200	78.9	4 340

BUCKET SELECTION GUIDE									
			.					EC750D	
Duelset	tuno	Capacity	Cutting width	Tip radius	Weight	Teeth	6.6m boom	7.7m	boom
Bucket type			width	iauius			650mm sho	e, 12 700kg co	unterweight
		m³	mm	mm	kg	EA	2.9m	2.9m	3.55m
		3.30	1 720	67	3 280	5	С	С	С
		4.00	2 000	78	3 690	5	С	С	С
	General	4.40	2 150	84	3 986	5	С	С	В
	purpose	4.65	2 250	88	3 986	5	С	С	В
		4.85	2 330	91	4 099	5	С	В	В
Direct fit		5.16	2 450	96	4 311	6	С	В	А
Buckets (V4)	Heavy	3.30	1 720	67	3 666	4	D	D	D
		4.00	2 000	78	4 125	5	D	D	С
		4.40	2 150	84	4 324	5	D	С	В
	duty	4.65	2 250	88	4 439	5	D	В	В
		4.85	2 330	91	4 590	5	D	В	А
		5.16	2 450	96	4 832	6	D	В	А
		3.30	2 100	82	3 746	5	D	D	D
Direct fit	Heavy	3.70	2 300	90	3 971	5	D	D	D
Buckets (V1) China only	duty	4.00	2 000	78	4 616	5	D	D	В
"China only		4.60	2 240	87	4 969	5	D	В	А

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.

The recommendations are given as a guide only, based on typical operation conditions.

Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum materal density

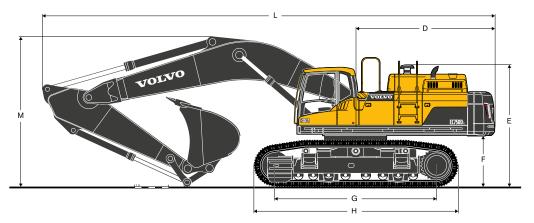
A 1 200~1 300 kg/m³ Coal, Caliche, Shale

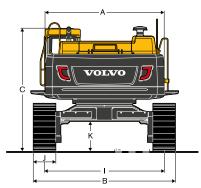
B 1 400~1 600 kg/m³ Wet earth and clay, Limestone, Sandstone
C 1 700~1 800 kg/m³ Granite, Wet sand, Well blasted rock

D 1 900 kg/m³ ~ Wet mud, Iron ore

Specifications

DIMENSIONS





Description				EC750D	
Boo	om	m	6.6	7.	7
Arm		m	2.9	2.9	3.55
Α	Overall width of upper structure	mm	3 420	3 420	3 420
В	Overall width	mm	4 290	4 290	4 290
С	Overall height of cab	mm	3 520	3 520	3 520
D	Tail slew radius	mm	4 140	4 140	4 140
Е	Overall height of aircleaner cap	mm	3 590	3 590	3 590
	Overall height of engine hood	mm	3 310	3 310	3 310
F	Counterweight clearance*	mm	1 507	1 507	1 507
G	Tumbler length	mm	4 750	4 750	4 750
Н	Track length	mm	5 990	5 990	5 990
- 1	Track gauge (extended)	mm	3 440	3 440	3 440
	Track gauge (retracted)	mm	2 750	2 750	2 750
J	Shoe width	mm	650	650	650
K	Min. ground clearance*	mm	858	858	858
L	Overall length	mm	12 200	13 320	13 220
М	Overall height of boom	mm	4 855	4 660	4 600

^{*} With shoe grouser

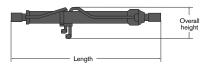




Description	escription Unit E		750D	Description	Unit	EC750D		
Boom	m	6.6	7.7	Arm	m	2.9	3.55	
Length (A)	mm	6 940	8 040	Length (A)	mm	4 280	4 960	
Height (B)	mm	2 530	2 210	Height (B)	mm	1 530	1 410	
Width	mm	1 100	1 100	Width	mm	740	740	
Weight * Includes cylinder, pipi	kg ng and pin	7 130	7 450	Weight * Includes bucket cylir	kg nder, linkage and	4 050 d pin	4 180	

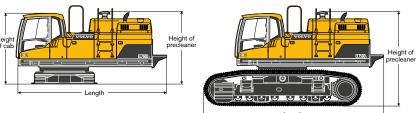
DIMENSIONS

Cylinder

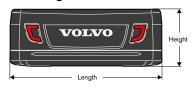


Cab

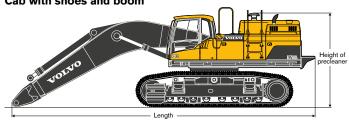
Cab with shoes



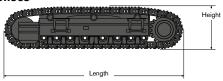
Counterweight



Cab with shoes and boom



Shoes



٠v	lın	Ю	

Length Height		Weight		
mm	mm	kg		
560	370	630 x 2 set = 1 260		
	mm	mm mm		

Counterweight

Length	Height Width V			
mm	mm	mm	kg	
3 420	1 280	800	12 700	

Shoes

Shoe width	Length	Height	Overall width	Weight / unit
mm	mm	mm	mm	kg
650	5 990	1 375	1 080	10 600
750	5 990	1 375	1 080	10 950
900	5 990	1 375	1 160	11 500

Cab

Length	Height of cab	Height of precleaner	Width	Weight		
mm	mm	mm	mm	kg		
5 600	2 655	2 735	3 430	22 400		

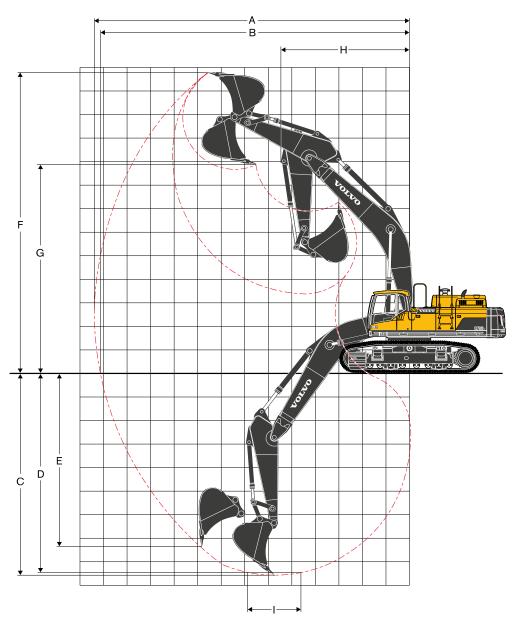
Cab with shoes

Shoe width	Length	Height of precleaner	Overall width (retracted)	Weight
mm	mm	mm	mm	kg
650	6 830	3 590	3 495	43 600
750	6 830	3 590	3 500	44 300
900	6 830	3 590	3 650	45 400

Cab with shoes and boom

Boom	Shoe width	Length	Height of precleaner	Overall width (retracted)	Weight
m	mm	mm	mm	mm	kg
	650	10 240	3 590	3 495	51 990
6.6	750	10 240	3 590	3 500	52 690
	900	10 240	3 590	3 650	53 790
	650	11 400	3 590	3 495	52 310
7.7	750	11 400	3 590	3 500	53 010
	900	11 400	3 590	3 650	54 110

Specifications



WORKING RANGES								
Description		Unit	Unit EC750D					
Boom		m	6.6	7.7				
Arm		m	2.9	2.9	2.9 3.55			
A Max. digging reach		mm	11 460	12 630	13 200			
B Max. digging reach on groun	nd	mm	11 160	12 370	12 940			
C Max. digging depth		mm	7 210	7 780	8 430			
D Max. digging depth (I = 2.44 m level)			7 060	7 640	8 300			
E Max. vertical wall digging de	pth	mm	5 650	6 830	7 260			
F Max. cutting height		mm	10 940	12 460	12 630			
G Max. dumping height		mm	7 000	8 380	8 580			
H Min. front swing radius		mm	5 130	5 460	5 390			
DIGGING FORCES WITH DI	RECT FIT BUCKET							
Bucket radius		mm	2 215	2 150	2 150			
Breakout force -bucket	SAE J1179	kN	325	301	301			
Dreakout force -bucket	ISO 6015	kN	389	356	356			
Too you the force of the most owns	SAE J1179	kN	314	316	278			
Tearout force -dipper arm	ISO 6015	kN	326	332	290			
Rotation angle, bucket		0	172	173	173			

LIFTING CAPACITY EC750D

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

For lifting capacity				1											
	Lifting relate ground	d to	Along UC	Across UC	Along UC	0 m Across UC	7. Along UC	5 m Across UC	9.0 Along UC	O m Across UC	Along UC	.5 m Across UC	Along UC	Across UC	m
	9.0 m	kg	UC	00	00	00	00	00	00	UC	UC	00	*15 720	*15 720	6.7
	7.5 m	kg					*16 950	*16 950					*14 600	*14 600	7.8
Boom: 6.6m	6.0 m 4.5 m	kg kg	*28 900	*28 900	*19 480 *21 940	*19 480 *21 940	*17 360 *18 480	*17 360 *18 240	*16 120	14 590			*14 250 *14 410	*14 250 14 390	8.6 9.1
Arm: 2.9m	3.0 m	kg	20 300	20 300	*24 440	*24 140	*19 740	18 830	*17 000	14 280			*15 020	13 640	9.3
Shoe: 650mm	1.5 m	kg	*32 950	*32 950	*26 110	25 290	*20 670	18 230	*17 230	13 990			*16 180	13 510	9.2
CWT: 12 700kg	0 m -1.5 m	kg	*35 300 *32 850	*35 300 *32 850	*26 450 *25 280	24 720 24 580	*20 840 *19 800	17 850 17 770					*16 950 *16 990	14 030 15 410	8.9 8.3
	-3.0 m	kg kg	*28 440	*28 440	*22 150	*22 150	19 000	17 770					*16 590	*16 590	7.4
	-4.5 m	kg	*20 640	*20 640									*14 760	*14 760	6.0
	10.5 m 9.0 m	kg					*15 660	*15 660					*16 980 *15 490	*16 980 *15 490	6.8 8.2
	7.5 m	kg kg					*15 940	*15 940	*14 820	*14 580			*14 710	14 200	9.2
Boom: 7.7m	6.0 m	kg			*20 130	*20 130	*16 910	*16 910	*15 040	14 590			*14 420	12 440	9.9
Arm: 2.9m	4.5 m 3.0 m	kg kg			*22 670 *24 740	*22 670 *24 340	*18 180 *19 350	*17 900 17 860	*15 610 *16 190	14 160 13 700			*14 230 *14 140	11 440 10 940	10.2
Shoe: 650mm	1.5 m	kg			*25 550	23 730	*20 030	17 250	*16 520	13 330			*14 070	10 850	10.4
CWT: 12 700kg	0 m	kg			*25 100	23 390	*19 990	16 900	*16 360	13 110			*13 960	11 180	10.1
	-1.5 m -3.0 m	kg	*27 460 *25 020	*27 460 *25 020	*23 610 *20 970	*23 170 *20 970	*19 070 *16 970	16 830 *16 620	*15 380	13 090			*13 720 *13 120	12 020 *12 800	9.6 8.8
	-4.5 m	kg kg	*19 620	*19 620	*16 580	*16 580	*12 410	*12 410					*11 670	*11 670	7.7
	10.5 m	kg					*14 590	*14 590					*13 600	*13 600	7.6
	9.0 m 7.5 m	kg					*14 930	*14 930	*13 860	*13 860			*12 490 *11 990	*12 490 *11 990	8.9 9.8
D 7.7	6.0 m	kg kg			*18 820	*18 820	*16 020	*16 020	*14 310	*14 020			*11 840	11 390	10.4
Boom: 7.7m	4.5 m	kg			*21 490	*21 490	*17 430	*17 430	*15 030	14 300	*13 500	11 140	*11 990	10 530	10.8
Arm: 3.55m	3.0 m 1.5 m	kg			*23 900 *25 290	*23 420 23 950	*18 790 *19 750	18 070 17 350	*15 780 *16 310	13 790 13 350	*13 780 *13 920	10 880 10 650	*12 380 *12 890	10 080 9 980	11.0
Shoe: 650mm	0 m	kg kg			*25 440	23 380	*20 050	16 890	*16 430	13 040	*13 650	10 510	*13 220	10 220	10.3
CWT: 12 700kg	-1.5 m	kg	*28 090	*28 090	*24 470	23 230	*19 540	16 690	*15 890	12 920			*13 130	10 890	10.2
	-3.0 m -4.5 m	kg	*27 750 *22 930	*27 750 *22 930	*22 370 *18 810	*21 830 *18 810	*18 010 *14 870	16 760 *14 870	*14 250	13 040			*12 830 *12 000	12 190 *12 000	9.5 8.4
	-6.0 m	kg kg	*15 520	*15 520	*12 510	*12 510	14 670	14 670					*9 780	*9 780	6.9
	9.0 m	kg kg											*15 720	*15 720	6.7
	7.5 m	kg			*19 480	*19 480	*16 950 *17 360	*16 950 *17 360					*14 600 *14 250	*14 600 *14 250	7.8 8.6
Boom: 6.6m	6.0 m 4.5 m	kg kg	*28 900	*28 900	*21 940	*21 940	*18 480	*18 240	*16 120	14 720			*14 410	*14 410	9.1
Arm: 2.9m	3.0 m	kg			*24 440	*24 140	*19 740	19 000	*17 000	14 420			*15 020	13 770	9.3
Shoe: 750mm	1.5 m 0 m	kg	*32 950 *35 300	*32 950 *35 300	*26 110 *26 450	25 530 24 960	*20 670 *20 840	18 400 18 020	*17 230	14 130			*16 180 *16 950	13 640 14 160	9.2 8.9
CWT: 12 700kg	-1.5 m	kg kg	*32 850	*32 850	*25 280	24 820	*19 800	17 940					*16 990	15 560	8.3
	-3.0 m	kg	*28 440	*28 440	*22 150	*22 150							*16 590	*16 590	7.4
	-4.5 m 10.5 m	kg	*20 640	*20 640									*14 760 *16 980	*14 760 *16 980	6.0
	9.0 m	kg kg					*15 660	*15 660					*15 490	*15 490	8.2
	7.5 m	kg					*15 660 *15 940	*15 660 *15 940	*14 820	*14 580			*15 490 *14 710	14 340	8.2 9.2
Boom: 7.7m	6.0 m 4.5 m	kg			*20 130 *22 670	*20 130 *22 670	*16 910 *18 180	*16 910 *17 900	*15 040 *15 610	14 720 14 290			*14 420 *14 230	12 570 11 560	9.9
Arm: 2.9m	3.0 m	kg kg			*24 740	*24 340	*19 350	18 040	*16 190	13 840			*14 140	11 050	10.3
Shoe: 750mm	1.5 m	kg			*25 550	23 970	*20 030	17 420	*16 520	13 470			*14 070	10 960	10.4
CWT: 12 700kg	0 m -1.5 m	kg	*27 460	*27 460	*25 100 *23 610	23 630 *23 170	*19 990 *19 070	17 080 17 000	*16 360 *15 380	13 250 13 230			*13 960 *13 720	11 290 12 150	10.1 9.6
	-3.0 m	kg kg	*25 020	*25 020	*20 970	*20 970	*16 970	*16 620	10 360	13 230			*13 120	*12 800	8.8
	-4.5 m	kg	*19 620	*19 620	*16 580	*16 580	*12 410	*12 410					*11 670	*11 670	7.7
	10.5 m 9.0 m	kg					*14 590	*14 590					*13 600 *12 490	*13 600 *12 490	7.6 8.9
	7.5 m	kg kg					*14 970	*14 970	*13 890	*13 890			*11 990	*11 990	9.8
Boom: 7.7m	6.0 m	kg			*18 860 *21 520	*18 860 *21 520	*16 060	*16 060	*14 350	*14 020			*11.840	11 500	10.5
Arm: 3.55m	4.5 m	kg			*21 520 *23 930	*21 520 *23 420	*17 470 *18 830	*17 470 18 240	*15 070 *15 810	14 430 13 920	*13 540 *13 820	11 250 11 000	*11 990 *12 380	10 640 10 190	10.8
Shoe: 750mm	3.0 m 1.5 m	kg kg			*25 320	24 190	*19 780	17 520	*16 350	13 480	*13 950	10 760	*12 890	10 190	11.0
CWT: 12 700kg	0 m	kg			*25 470	23 620	*20 080	17 060	*16 470	13 180	*13 680	10 620	*13 260	10 330	10.7
0111. 12 7 0 0 kg	-1.5 m	kg	*28 090	*28 090	*24 500	23 460	*19 570	16 870	*15 930	13 060			*13 170	11 000	10.2
	-3.0 m -4.5 m	kg kg	*27 790 *22 960	*27 790 *22 960	*22 410 *18 840	*21 830 *18 840	*18 040 *14 910	16 940 *14 910	*14 290	13 170			*12 860 *12 030	12 310 *12 030	9.5 8.4
	-6.0 m	kg	*15 550	*15 550	*12 550	*12 550							*9 820	*9 820	6.9
	9.0 m 7.5 m	kg					*16 950	*16 950					*15 720 *14 600	*15 720 *14 600	6.7 7.8
	6.0 m	kg kg			*19 480	*19 480	*17 360	*17 360					*14 250	*14 250	8.6
Boom: 6.6m	4.5 m	kg	*28 900	*28 900	*21 940	*21 940	*18 480	*18 240	*16 120	14 930			*14 250 *14 410	*14 410	9.1
Arm: 2.9m	3.0 m	kg	*00.050	+00.050	*24 440	*24 440	*19 740	19 260	*17 000	14 620			*15 020	13 970	9.3
Shoe: 900mm	1.5 m 0 m	kg kg	*32 950 *35 300	*32 950 *35 300	*26 110 *26 450	*25 770 25 310	*20 670 *20 840	18 660 18 280	*17 230	14 330			*16 180 *16 950	13 840 14 370	9.2 8.9
CWT: 12 700kg	-1.5 m	kg	*32 850	*32 850	*25 280	*24 920	*19 800	18 200					*16 990	15 790	8.3
	-3.0 m	kg	*28 440	*28 440	*22 150	*22 150							*16 590	*16 590	7.4
	-4.5 m	kg kg	*20 640	*20 640									*14 760 *16 980	*14 760 *16 980	6.0
	9.0 m	kg					*15 660	*15 660					*15 490	*15 490	8.2
	7.5 m	kg			+00 +00	+00.100	*15 940	*15 940	*14 830	*14 580			*14 710	14 540	9.2
Boom: 7.7m	6.0 m 4.5 m	kg kg			*20 130 *22 670	*20 130 *22 670	*16 910 *18 180	*16 910 *17 900	*15 040 *15 610	*14 790 14 500			*14 420 *14 230	12 750 11 730	9.9
Arm: 2.9m	3.0 m	kg			*24 740	*24 340	*19.350	18 300	*16 190	14 050			*14 140	11 230	10.4
Shoe: 900mm	1.5 m	kg			*25 550 *25 100	*24 340 24 320 23 980	*20 030 *19 990	17 680 17 340	*16 520 *16 360	13 670			*14 070	11 140	10.4
CWT: 12 700kg	0 m	kg kg	*27 460	*27 460	*25 100 *23 610	*23 980	*19 990	17 340	*16 360	13 450 13 440			*13 960 *13 720	11 470 12 340	10.1
	-3.0 m	kg	*25 020	*25 020	*20 970	*20 970	*16 970	*16 620	10 000	10 770			*13 120	*12 800	8.8
	-4.5 m	kg kg	*19 620	*19 620	*16 580	*16 580	*12 410	*12 410					*11 670	*11 670	7.7
	10.5 m	kg					*14 590	*14 590					*13 600 *12 490	*13 600 *12 490	7.6
	9.0 m 7.5 m	kg kg					*14 970	*14 970	*13 890	*13 890			*11 990	*11 990	8.9 9.8
Boom: 7.7m	6.0 m	kg			*18 860	*18 860	*16 060	*16 060	*14 350	*14 020	110 - 11		*11 840	11 670	10.5
Arm: 3.55m	4.5 m 3.0 m	kg			*21 520 *23 930	*21 520 *23 420	*17 470 *18 830	*17 470 *18 390	*15 070 *15 810	14 640 14 130	*13 540 *13 820	11 420 11 170	*11 990 *12 380	10 800 10 350	10.8
Shoe: 900mm	3.0 m 1.5 m	kg kg			*25 320	24 540	*19 780	17 780	*16 350	12 600	*13 950	10.930	*12 890	10 350	11.0
CWT: 12 700kg	0 m	kg			*25 320 *25 470	23 970	*20 080	17 320	*16 350 *16 470	13 390	*13 680	10 930 10 790	*13 260	10 500	10.7
2 12 / OOKg	-1.5 m	kg	*28 090	*28 090	*24 500	23 820	*19 570	17 130	*15 930	13 270			*13 170	11 180	10.2
	-3.0 m -4.5 m	kg kg	*27 790 *22 960	*27 790 *22 960	*22 410 *18 840	*21 830 *18 840	*18 040 *14 910	17 200 *14 910	*14 290	13 380			*12 860 *12 030	*12 450 *12 030	9.5 8.4
	-6.0 m	kg	*15 550	*15 550	*12 550	*12 550	515						*9 820	*9 820	
		E" (D.	war Baaat)	for lifting oon	ocitica O T					7 and ISO 1					

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

Equipment

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler

Air filter with indicator

Air intake heater

Cyclone pre-cleaner

Electric engine shut-off

Fuel filter and water separator

Alternator, 80 A

Fuel filler pump, 100 lpm with automatic shut-off

Electric/Electronic control system

Contronics

Advanced mode control system

Self-diagnostic system

Machine status indication

Engine speed sensing power control

Emergency engine stop switch

Automatic idling system

Safety stop/start function

Adjustable LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen lights:

Cab-mounted 2

Frame-mounted 1

Boom-mounted 4

Batteries, 2 x 12 V / 210 Ah

Start motor, 28 V / 6.6 kW

Hydraulic system

Automatic sensing hydraulic system

Summation system

Boom priority

Arm priority

Swing priority

ECO mode fuel saving technology

Boom and arm regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Multi-stage filtering system

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, ISO VG 46

Frame

Access way with handrail

Full height counterweight 12 700kg

Tool storage area

Side walk-way

Under cover (heavy duty 4.5mm)

Punched metal anti-slip plates

Cab and interior

Silicon oil and rubber mounts with spring

Adjustable operator seat with heater and joystick control console

Control joysticks with semi-long

Heater & air-conditioner, automatic

Flexible antenna

Radio with CD player & MP3 player and USB

Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:

Cup holders

Door locks

Tinted glass

Floor mat

Horn

Large storage area

Pull-up type front window

Removable lower windshield

Seat belt

Safety glass

Sun screens, front, roof, rear

Windshield wiper with intermittent feature

Master key

Undercarriage

Mechanically retractable track gauge

Hydraulic track adjusters

Greased and sealed track link

Track Guard

Under cover (10mm)

Track shoes

Track shoes, 650 mm with double grouser

Digging equipment

Boom: ME 6.6 m

Arm: ME 2.9 m

Manual centralized lubrication

OPTIONAL EQUIPMENT

Engine

Block heater: 240 V

Dual stage oil bath pre-cleaner

Diesel coolant heater, 10 kW

Water separator with heater

Extra water separator

Auto engine shutdown

Electric

Extra lights:

Cab-mounted 3 (front 2, rear 1)

Boom-mounted 4

Frame-mounted 1

Counterweight-mounted 1

Travel alarm

Anti-theft system

Rotating warning beacon

OPTIONAL EQUIPMENT

Hydraulic system

Hose rupture valve: boom, arm

Straight travel pedal

Bucket conflux

Boom float function with HRV

Boom float function without HRV

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

Quick coupler piping

Volvo hydraulic quick coupler EQD FPL Eye 75t C

Hydraulic oil, ISO VG 32, 68

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32, 46, 68

Cab and interior

One-piece fixed front windshield

Fabric seat without heater

Fabric seat with heater and air suspension

Control joysticks with 4 switches each

Control joysticks with 3 switch & 1 propotional

Opening top hatch

Front rain shield

Cab and interior

Falling object guard (FOG)

Frame-mounted

Cab-mounted

Cab-mounted falling object protective structure (FOPS)

Smoker kit (ashtray and lighter)

Safety net for front window

Sunlight protection, roof (steel)

Lower wiper with intermittent control

Cleaning air gun

Rear view camera

Side view camera

Specific key

Frame

Full height counterweight:

12 700kg removal type

Undercarriage

Full track guard

Track shoes

750/900mm track shoes with double grousers

Digging equipment

Boom: 7.7m

Arm: 2.9m, 3.55m

Service

Tool kit, daily maintenance

Tool kit, full scale

Special tool for retractable frame

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Dual stage oil bath pre-cleaner



FOPS/FOG

(Falling object protection system/Falling object guard)



Boom float



Bucket conflux



Side-view camera



One-piece fixed windshield



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.

