Volvo Construction Equipment

EC750D

Volvo Excavators 72.5-75 t 508 hp

Gain more, pay less

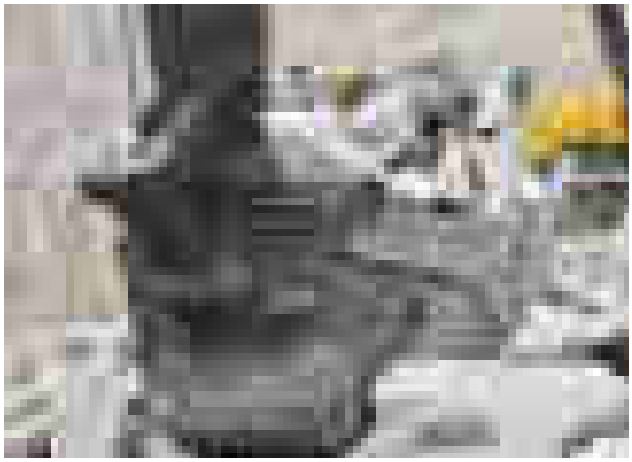
Secure more profit and reduce your Total Cost of Ownership by increasing productivity and fuel efficiency. Do more for less on your job site with the EC750D's Volvo D16 engine, which delivers increased horsepower and fuel efficiency. The machine's electro hydraulic system provides high productivity and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

Electro hydraulic system

Enhance fuel efficiency while increasing productivity and performance. The new and improved Volvo designed electro-hydraulic 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.

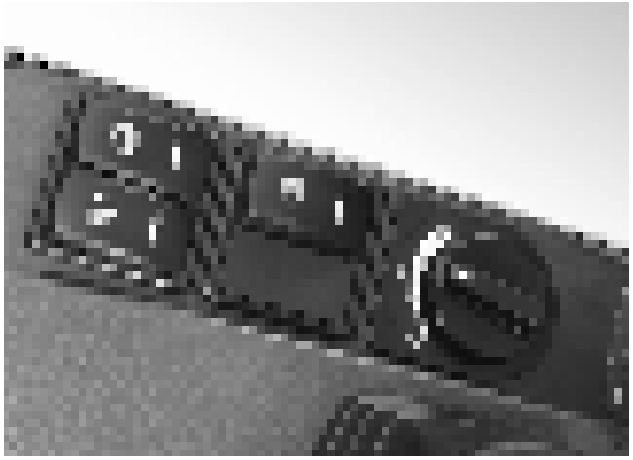
Increased bucket capacity

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.



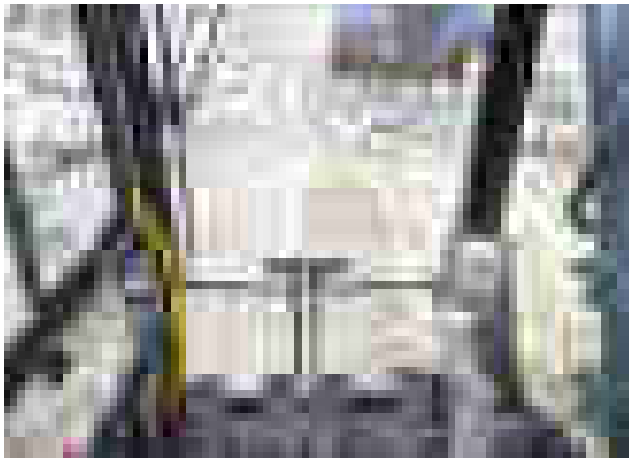
Work modes

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

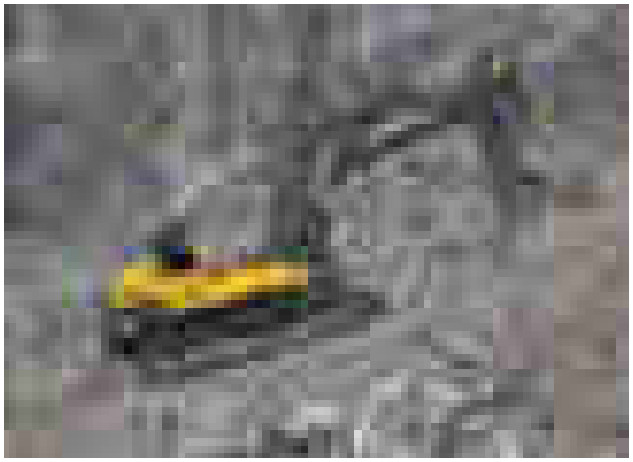
The EC750D's outstanding digging force gets the job done whether you're working at a mine, quarry or in heavy construction applications. The EC750D digs, swings and loads using the most efficient technology and its improved stability, tractive force and Eco Mode, delivers low fuel consumption and improved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

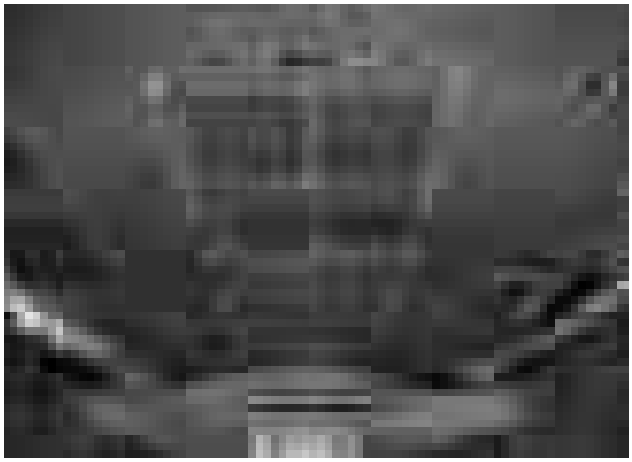
The reinforced upper and lower frame are built to withstand tougher conditions for improved durability and reliability. The reinforced idler frame, track links and bottom rollers are designed and built for constant impact, leading to machine longevity and a sustained level of uptime in demanding applications.

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

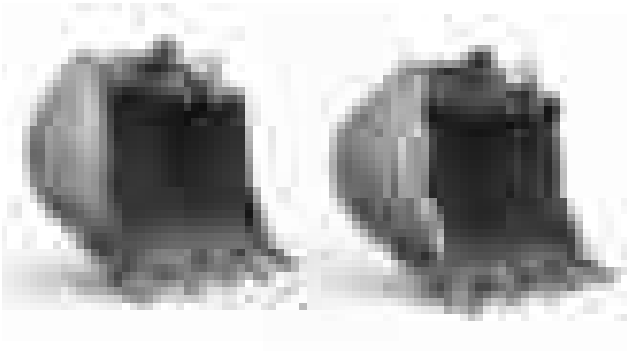
Volvo's attachments have been purpose-built to work in perfect harmony with Volvo machines, forming one solid, reliable unit. With functions and properties ideally matched, Volvo attachments are an integrated part of the excavator for which they're intended –delivering maximum productivity.

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.

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.

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.

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

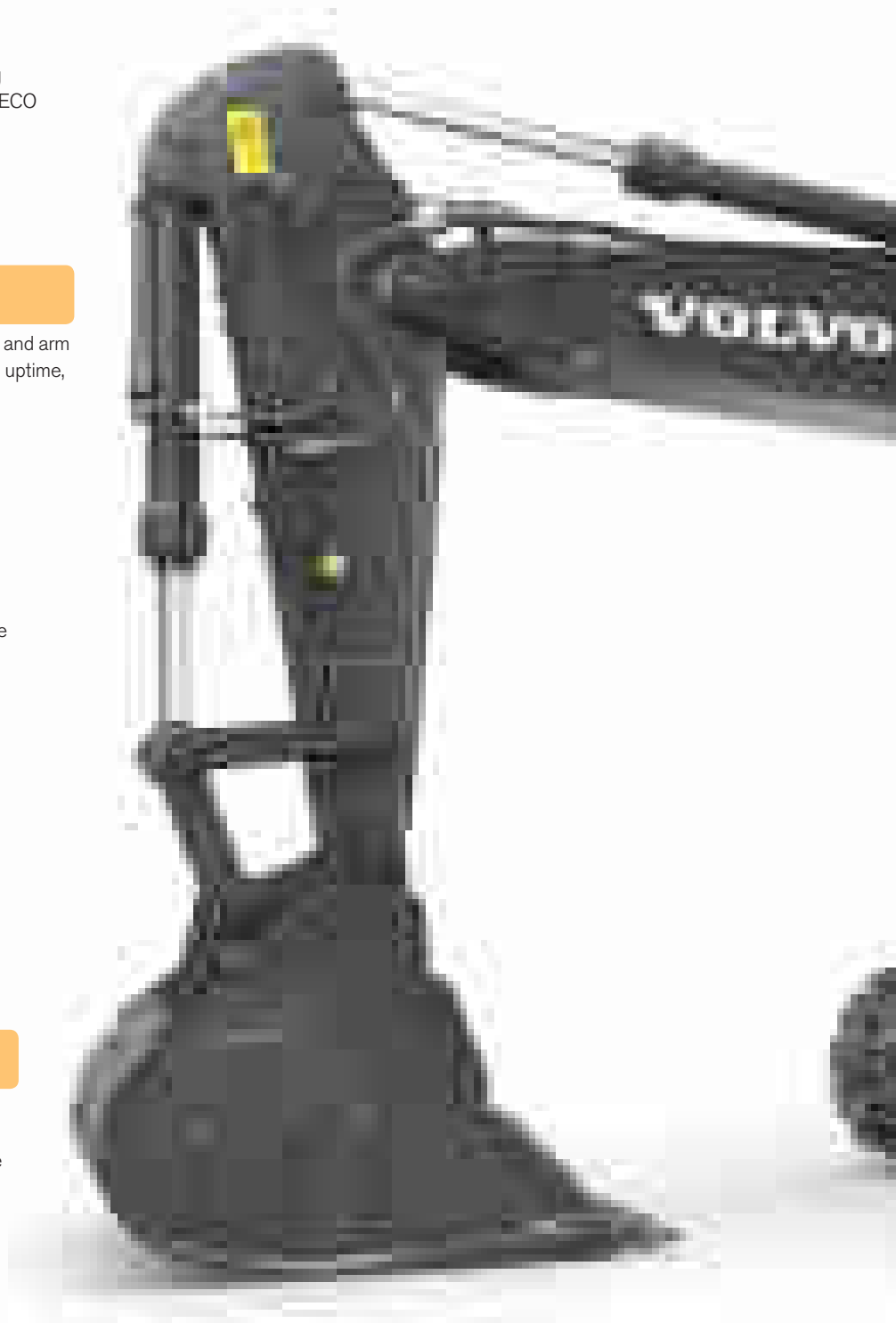
The reinforced heavy-duty boom and arm increases reliability and machine uptime, even in challenging applications.

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

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

Volvo Cab

The comfortable, low noise environment and adjustable seat increases operator efficiency and capacity to improve production.

VOLVO D16 ENGINE

The high quality D16 engine delivers 11% increased horsepower for high productivity and increased fuel efficiency.

Easy service access

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

Reinforced structure

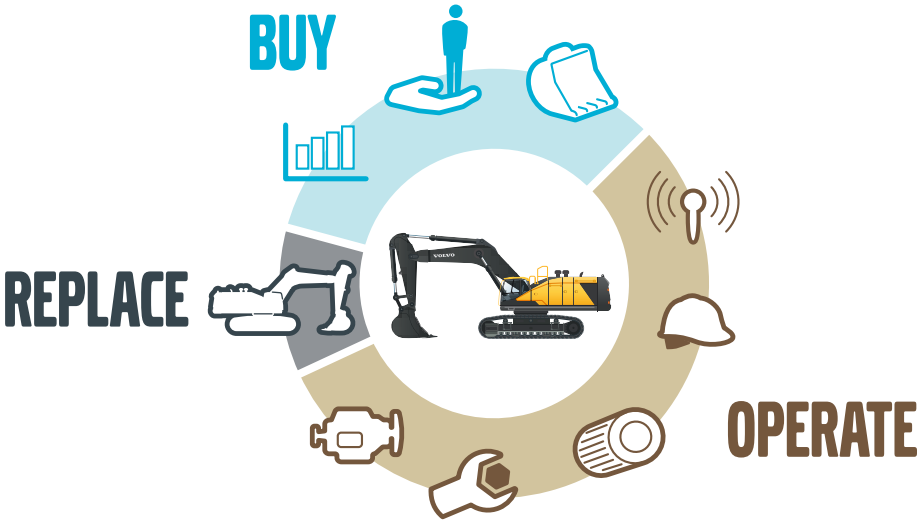
The reinforced upper and lower frame are built to withstand tougher conditions for improved durability and reliability.

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.

Service Network

In order to respond to your needs faster, a Volvo expert is on their 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.
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/min	1 800
Net, ISO 9249/SAE J1349	kW	374
	hp	508
Gross, ISO 14396/SAE J1995	kW	385
	hp	523
Max torque	Nm	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/A	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	kNm	274

Travel System

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

Max. drawbar pull	kN	478
Max. travel speed (low)	km/h	2.9
Max. travel speed (high)	km/h	4.6
Gradeability	°	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.
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
Relief value setting pressure		
Implement	MPa	34.3
Travel circuit	MPa	34.3
Slew circuit	MPa	26.5
Pilot circuit	MPa	3.9

Hydraulic Motors

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

Hydraulic Cylinders

Mono boom		2
Bore x Stroke	ø x mm	190 x 1 790
Arm		1
Bore x Stroke	ø x mm	215 x 2 070
Bucket		1
Bore x Stroke	ø x mm	190 x 1 450
ME Bucket		1
Bore x Stroke	ø x mm	200 x 1 450

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 6.6 m, Arm 2.9 m, Bucket 4 200 kg			Boom 7.1 m, Arm 2.9 m, Bucket 4 200 kg			Boom 7.7 m, Arm 2.9 m, Bucket 3 500 kg			Boom 7.7 m, Arm 3.55 m, Bucket 3 500 kg		
		Counterweight 12 700 kg			Counterweight 12 700 kg			Counterweight 12 700 kg			Counterweight 12 700 kg		
Description	Shoe width	Operating weight	Ground pressure	Overall 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	kg	kPa	mm
Double grouser	650	72 900	105.9	4 185	73 200	106.4	4 185	72 500	105.4	4 185	72 700	105.7	4185
	750	73 600	92.7	4 190	73 900	93.1	4 190	73 200	92.2	4 190	73 400	92.4	4 190
	900	74 700	78.4	4 340	75 000	78.7	4 340	74 300	78.0	4 340	74 500	78.2	4 340

BUCKET SELECTION GUIDE

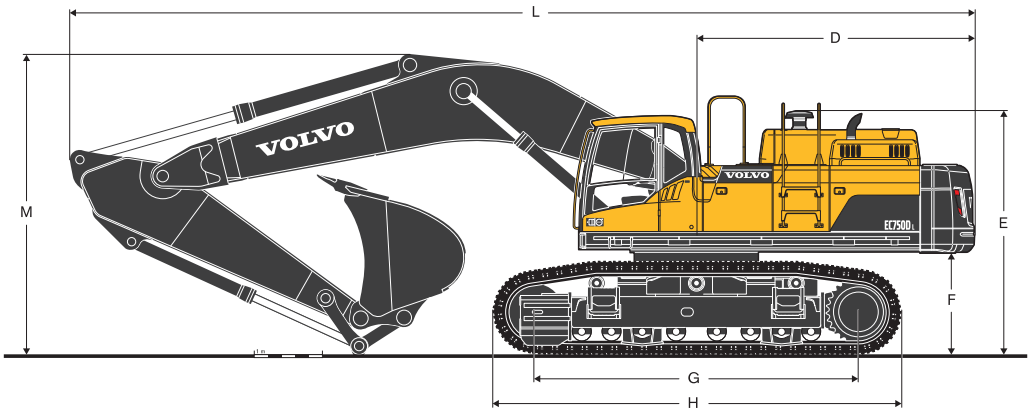
Bucket type		Capacity	Cutting width	Tip radius	Weight	Teeth	EC750D			
							6.6 m boom	7.1 m boom	7.7 m boom	
							650 mm shoe, 12 700 kg counterweight			
		m3	mm	mm	kg	EA	2.9 m	2.9 m	2.9 m	3.55 m
Direct fit Buckets (V4)	General purpose	3.3	1 720	2 177	3 280	5	C	x	C	C
		4.0	2 000	2 177	3 690	5	C	x	C	C
		4.4	2 150	2 177	3 986	5	C	x	C	B
		4.65	2 250	2 177	3 986	5	C	x	C	B
		4.85	2 330	2 177	4 099	5	C	x	B	B
		5.16	2 450	2 177	4 311	6	C	x	B	A
	Heavy duty	3.3	1 720	2 177	3 666	4	D	D	D	D
		4.0	2 000	2 177	4 125	5	D	x	D	C
		4.4	2 150	2 177	4 324	5	D	x	C	B
		4.65	2 250	2 177	4 439	5	D	D	B	B
		4.85	2 330	2 177	4 590	5	D	x	B	A
		5.16	2 450	2 177	4 832	6	D	x	B	A
Direct fit Buckets (V1) *China only	Heavy duty	3.3	2 100	2 158	3 746	5	D	x	D	D
		3.7	2 300	2 232	3 971	5	D	x	D	D
		4.0	2 000	2 219	4 616	5	D	x	D	B
		4.6	2 240	2 219	4 969	5	D	x	B	A

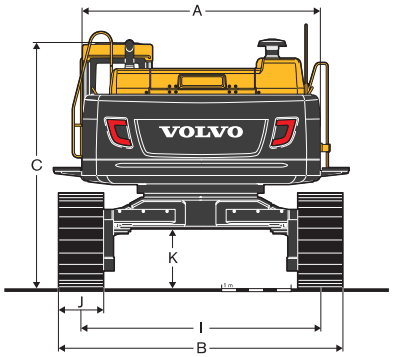
Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.
The recommendations are given as a guide only, based on typical operation conditions.
Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

X : Not recommended

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

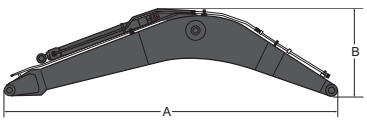


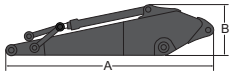


DIMENSIONS

Description		Unit	EC750D			
Boom		**m**	**6.6**	**7.1**	**7.7**	
Arm		**m**	**2.9**	**2.9**	**2.9**	**3.55**
A	Overall width of upper structure	mm	3 420	3 420	3 420	3 420
B	Overall width	mm	4 290	4 290	4 290	4 290
C	Overall height of cab	mm	3 520	3 520	3 520	3 520
D	Tail slew radius	mm	4 140	4 140	4 140	4 140
E	Overall height of aircleaner cap	mm	3 590	3 590	3 590	3 590
	Overall height of engine hood	mm	3 310	3 310	3 310	3 310
F	Counterweight clearance*	mm	1 507	1 507	1 507	1 507
G	Tumbler length	mm	4 750	4 750	4 750	4 750
H	Track length	mm	5 990	5 990	5 990	5 990
I	Track gauge (extended)	mm	3 440	3 440	3 440	3 440
	Track gauge (retracted)	mm	2 750	2 750	2 750	2 750
J	Shoe width	mm	650	650	650	650
K	Min. ground clearance*	mm	858	858	858	858
L	Overall length	mm	12 200	12 700	13 320	13 220
M	Overall height of boom	mm	4 855	4800	4 660	4 600

* With shoe grouser





Description	Unit	EC750D		
Boom	**m**	**6.6**	**7.1**	**7.7**
Length (A)	mm	6 940	7 440	8 040
Height (B)	mm	2 530	2 430	2 210
Width	mm	1 100	1 100	1 100
Weight	kg	7 130	7 380	7 450

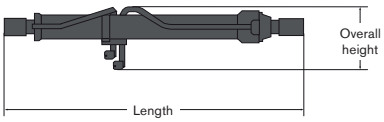
* Includes cylinder, piping and pin

Description	Unit	EC750D	
Arm	**m**	**2.9**	**3.55**
Length (A)	mm	4 280	4 960
Height (B)	mm	1 530	1 410
Width	mm	740	740
Weight	kg	4 050	4 180

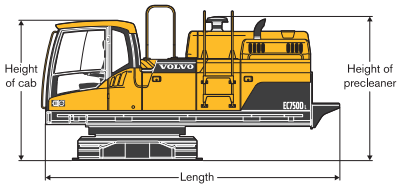
* Includes bucket cylinder, linkage and pin

DIMENSIONS

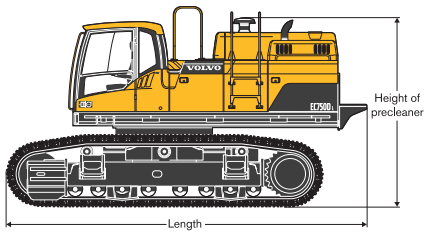
Cylinder



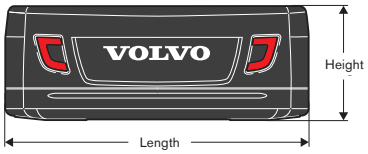
Cab



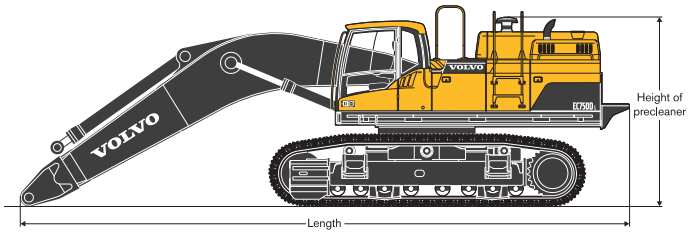
Cab with shoes



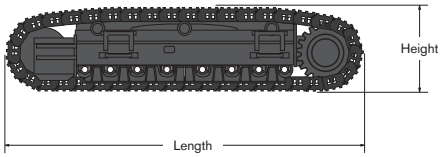
Counterweight



Cab with shoes and boom



Shoes



Cylinder

Length	Height	Width	Weight
mm	mm	mm	kg
2 525	560	370	630 x 2 set = 1 260

Counterweight

Length	Height	Width	Weight
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

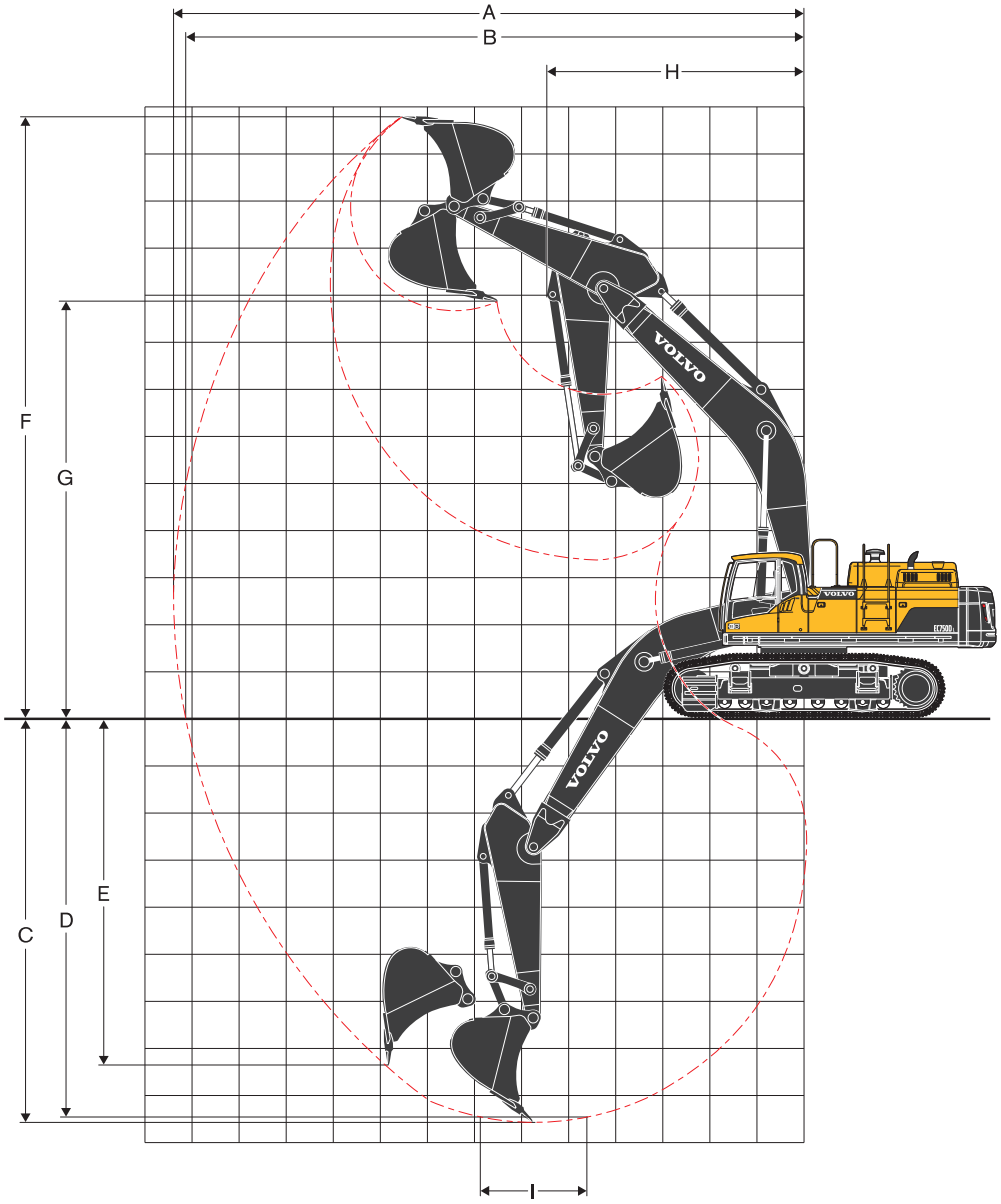
Cab with shoes

Shoe width	Length	Height ofprecleaner	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 ofprecleaner	Overall width(retracted)	Weight
m	mm	mm	mm	mm	kg
6.6	650	10 240	3 590	3 495	51 990
	750	10 240	3 590	3 500	52 690
	900	10 240	3 590	3 650	53 790
7.1	650	10 770	3 590	3 495	52 240
	750	10 770	3 590	3 500	52 940
	900	10 770	3 590	3 650	54 040
7.7	650	11 400	3 590	3 495	52 310
	750	11 400	3 590	3 500	53 010
	900	11 400	3 590	3 650	54 110

Specifications



WORKING RANGES						
Description		**Unit**	**EC750D**			
Boom		**m**	**6.6**	**7.1**	**7.7**	
Arm		**m**	**2.9**	**2.9**	**2.9**	**3.55**
A Max. digging reach		mm	11 460	11 990	12 630	13 200
B Max. digging reach on ground		mm	11 160	11 710	12 370	12 940
C Max. digging depth		mm	7 210	7 610	7 780	8 430
D Max. digging depth (I = 2.44 m level)		mm	7 060	7 460	7 640	8 300
E Max. vertical wall digging depth		mm	5 650	6 100	6 830	7 260
F Max. cutting height		mm	10 940	11 400	12 460	12 630
G Max. dumping height		mm	7 000	7 430	8 380	8 580
H Min. front swing radius		mm	5 130	5350	5 460	5 390
DIGGING FORCES WITH DIRECT FIT BUCKET						
Bucket radius		mm	2 215	2 215	2 150	2 150
Breakout force -bucket	SAE J1179	kN	325	325	301	301
	ISO 6015	kN	389	389	356	356
Tearout force -dipper arm	SAE J1179	kN	314	314	316	278
	ISO 6015	kN	326	326	332	290
Rotation angle, bucket		°	174	174	174	174

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.

	Lifting hook related to ground level		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
Boom: 6.6m Arm: 2.9m Shoe: 650mm CWT: 12 700kg	9.0 m	kg											*15 720	*15 720	6.7
	7.5 m	kg					*16 950	*16 950					*14 600	*14 600	7.8
	6.0 m	kg			*19 480	*19 480	*17 360	*17 360					*14 250	*14 250	8.6
	4.5 m	kg	*28 900	*28 900	*21 940	*21 940	*18 480	*18 240	*16 120	14 590			*14 410	14 390	9.1
	3.0 m	kg			*24 440	*24 140	*19 740	18 830	*17 000	14 280			*15 020	13 640	9.3
	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
	0 m	kg	*35 300	*35 300	*26 450	24 720	*20 840	17 850					*16 950	14 030	8.9
	-1.5 m	kg	*32 850	*32 850	*25 280	24 580	*19 800	17 770					*16 990	15 410	8.3
	-3.0 m	kg	*28 440	*28 440	*22 150	*22 150							*16 590	*16 590	7.4
	-4.5 m	kg	*20 640	*20 640									*14 760	*14 760	6.0
Boom: 7.1m Arm: 2.9m Shoe: 650mm CWT: 12 700kg	9.0 m	kg											*15430	*15430	7.4
	7.5 m	kg					*15840	*15840					*14540	*14540	8.5
	6.0 m	kg					*16580	*16580	*15230	14 730			*14250	14 240	9.2
	4.5 m	kg			*21630	*21630	*17790	*17790	*15620	14 420			*14410	12 950	9.6
	3.0 m	kg			*23980	*23980	*19040	18 400	*16170	14 020			*14990	12 310	9.8
	1.5 m	kg			*25350	24 560	*19910	17 770	*16530	13 670			*15180	12 190	9.7
	0 m	kg	*27230	*27230	*25450	24 050	*20080	17 380	*16350	13 470			*15270	12 590	9.5
	-1.5 m	kg	*30940	*30940	*24290	23 960	*19270	17 270					*15240	13 680	8.9
	-3.0 m	kg	*27090	*27090	*21640	*21640	*16850	*16850					*14860	*14860	8.1
	-4.5 m	kg	*20880	*20880	*16430	*16430							*13490	*13490	6.8
Boom: 7.7m Arm: 2.9m Shoe: 650mm CWT: 12 700kg	10.5 m	kg											*16 980	*16 980	6.8
	9.0 m	kg					*15 660	*15 660					*15 490	*15 490	8.2
	7.5 m	kg					*15 940	*15 940	*14 820	*14 580			*14 710	14 200	9.2
	6.0 m	kg			*20 130	*20 130	*16 910	*16 910	*15 040	14 590			*14 420	12 440	9.9
	4.5 m	kg			*22 670	*22 670	*18 180	*17 900	*15 610	14 160			*14 230	11 440	10.2
	3.0 m	kg			*24 740	*24 340	*19 350	17 860	*16 190	13 700			*14 140	10 940	10.4
	1.5 m	kg			*25 550	23 730	*20 030	17 250	*16 520	13 330			*14 070	10 850	10.4
	0 m	kg			*25 100	23 390	*19 990	16 900	*16 360	13 110			*13 960	11 180	10.1
	-1.5 m	kg	*27 460	*27 460	*23 610	*23 170	*19 070	16 830	*15 380	13 090			*13 720	12 020	9.6
	-3.0 m	kg	*25 020	*25 020	*20 970	*20 970	*16 970	*16 620					*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
Boom: 7.7m Arm: 3.55m Shoe: 650mm CWT: 12 700kg	10.5 m	kg					*14 590	*14 590					*13 600	*13 600	7.6
	9.0 m	kg											*12 490	*12 490	8.9
	7.5 m	kg					*14 930	*14 930	*13 860	*13 860			*11 990	*11 990	9.8
	6.0 m	kg			*18 820	*18 820	*16 020	*16 020	*14 310	*14 020			*11 840	11 390	10.4
	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
	3.0 m	kg			*23 900	*23 420	*18 790	18 070	*15 780	13 790	*13 780	10 880	*12 380	10 080	11.0
	1.5 m	kg			*25 290	23 950	*19 750	17 350	*16 310	13 350	*13 920	10 650	*12 890	9 980	10.9
	0 m	kg			*25 440	23 380	*20 050	16 890	*16 430	13 040	*13 650	10 510	*13 220	10 220	10.7
	-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	kg	*27 750	*27 750	*22 370	*21 830	*18 010	16 760	*14 250	13 040			*12 830	12 190	9.5
	-4.5 m	kg	*22 930	*22 930	*18 810	*18 810	*14 870	*14 870					*12 000	*12 000	8.4
	-6.0 m	kg	*15 520	*15 520	*12 510	*12 510							*9 780	*9 780	6.9
Boom: 6.6m Arm: 2.9m Shoe: 750mm CWT: 12 700kg	9.0 m	kg											*15 720	*15 720	6.7
	7.5 m	kg					*16 950	*16 950					*14 600	*14 600	7.8
	6.0 m	kg			*19 480	*19 480	*17 360	*17 360					*14 250	*14 250	8.6
	4.5 m	kg	*28 900	*28 900	*21 940	*21 940	*18 480	*18 240	*16 120	14 720			*14 410	*14 410	9.1
	3.0 m	kg			*24 440	*24 140	*19 740	19 000	*17 000	14 420			*15 020	13 770	9.3
	1.5 m	kg	*32 950	*32 950	*26 110	25 530	*20 670	18 400	*17 230	14 130			*16 180	13 640	9.2
	0 m	kg	*35 300	*35 300	*26 450	24 960	*20 840	18 020					*16 950	14 160	8.9
	-1.5 m	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	kg	*20 640	*20 640									*14 760	*14 760	6.0

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.

Specifications

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.

	Lifting hook related to ground level		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
Boom: 7.1m Arm: 2.9m Shoe: 750mm CWT: 12 700kg	9.0 m	kg											*15430	*15430	7.4
	7.5 m	kg					*15840	*15840					*14540	*14540	8.5
	6.0 m	kg					*16580	*16580	*15230	14 870			*14250	*14250	9.2
	4.5 m	kg			*21630	*21630	*17790	*17790	*15620	14 560			*14410	13 070	9.6
	3.0 m	kg			*23980	*23980	*19040	18 580	*16170	14 160			*14990	12 430	9.8
	1.5 m	kg			*25350	24 790	*19910	17 940	*16530	13 810			*15180	12 310	9.7
	0 m	kg	*27230	*27230	*25450	24 290	*20080	17 550	*16350	13 600			*15270	12 720	9.5
	-1.5 m	kg	*30940	*30940	*24290	24 190	*19270	17 450					*15240	13 820	8.9
	-3.0 m	kg	*27090	*27090	*21640	*21640	*16850	*16850					*14860	*14860	8.1
	-4.5 m	kg	*20880	*20880	*16430	*16430							*13490	*13490	6.8
Boom: 7.7m Arm: 2.9m Shoe: 750mm CWT: 12 700kg	10.5 m	kg											*16 980	*16 980	6.8
	9.0 m	kg					*15 660	*15 660					*15 490	*15 490	8.2
	7.5 m	kg					*15 940	*15 940	*14 820	*14 580			*14 710	14 340	9.2
	6.0 m	kg			*20 130	*20 130	*16 910	*16 910	*15 040	14 720			*14 420	12 570	9.9
	4.5 m	kg			*22 670	*22 670	*18 180	*17 900	*15 610	14 290			*14 230	11 560	10.3
	3.0 m	kg			*24 740	*24 340	*19 350	18 040	*16 190	13 840			*14 140	11 050	10.4
	1.5 m	kg			*25 550	23 970	*20 030	17 420	*16 520	13 470			*14 070	10 960	10.4
	0 m	kg			*25 100	23 630	*19 990	17 080	*16 360	13 250			*13 960	11 290	10.1
	-1.5 m	kg	*27 460	*27 460	*23 610	*23 170	*19 070	17 000	*15 380	13 230			*13 720	12 150	9.6
	-3.0 m	kg	*25 020	*25 020	*20 970	*20 970	*16 970	*16 620					*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
Boom: 7.7m Arm: 3.55m Shoe: 750mm CWT: 12 700kg	10.5 m	kg					*14 590	*14 590					*13 600	*13 600	7.6
	9.0 m	kg											*12 490	*12 490	8.9
	7.5 m	kg					*14 970	*14 970	*13 890	*13 890			*11 990	*11 990	9.8
	6.0 m	kg			*18 860	*18 860	*16 060	*16 060	*14 350	*14 020			*11 840	11 500	10.5
	4.5 m	kg			*21 520	*21 520	*17 470	*17 470	*15 070	14 430	*13 540	11 250	*11 990	10 640	10.8
	3.0 m	kg			*23 930	*23 420	*18 830	18 240	*15 810	13 920	*13 820	11 000	*12 380	10 190	11.0
	1.5 m	kg			*25 320	24 190	*19 780	17 520	*16 350	13 480	*13 950	10 760	*12 890	10 090	11.0
	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
	-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	kg	*27 790	*27 790	*22 410	*21 830	*18 040	16 940	*14 290	13 170			*12 860	12 310	9.5
	-4.5 m	kg	*22 960	*22 960	*18 840	*18 840	*14 910	*14 910					*12 030	*12 030	8.4
	-6.0 m	kg	*15 550	*15 550	*12 550	*12 550							*9 820	*9 820	6.9
Boom: 6.6m Arm: 2.9m Shoe: 900mm CWT: 12 700kg	9.0 m	kg											*15 720	*15 720	6.7
	7.5 m	kg					*16 950	*16 950					*14 600	*14 600	7.8
	6.0 m	kg			*19 480	*19 480	*17 360	*17 360					*14 250	*14 250	8.6
	4.5 m	kg	*28 900	*28 900	*21 940	*21 940	*18 480	*18 240	*16 120	14 930			*14 410	*14 410	9.1
	3.0 m	kg			*24 440	*24 440	*19 740	19 260	*17 000	14 620			*15 020	13 970	9.3
	1.5 m	kg	*32 950	*32 950	*26 110	*25 770	*20 670	18 660	*17 230	14 330			*16 180	13 840	9.2
	0 m	kg	*35 300	*35 300	*26 450	25 310	*20 840	18 280					*16 950	14 370	8.9
	-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	*20 640	*20 640									*14 760	*14 760	6.0
Boom: 7.1m Arm: 2.9m Shoe: 900mm CWT: 12 700kg	9.0 m	kg											*15430	*15430	7.4
	7.5 m	kg					*15840	*15840					*14540	*14540	8.5
	6.0 m	kg					*16580	*16580	*15230	15 070			*14250	*14250	9.2
	4.5 m	kg			*21630	*21630	*17790	*17790	*15620	14 760			*14410	13 260	9.6
	3.0 m	kg			*23980	*23980	*19040	18 840	*16170	14 370			*14990	12 620	9.8
	1.5 m	kg			*25350	25 150	*19910	18 200	*16530	14 020			*15180	12 500	9.7
	0 m	kg	*27230	*27230	*25450	24 640	*20080	17 820	*16350	13 810			*15270	12 920	9.5
	-1.5 m	kg	*30940	*30940	*24290	*24290	*19270	17 710					*15240	14 030	8.9
	-3.0 m	kg	*27090	*27090	*21640	*21640	*16850	*16850					*14860	*14860	8.1
	-4.5 m	kg	*20880	*20880	*16430	*16430							*13490	*13490	6.8

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

LIFTING CAPACITY 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.

	Lifting hook related to ground level		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
Boom: 7.7m Arm: 2.9m Shoe: 900mm CWT: 12 700kg	10.5 m	kg											*16 980	*16 980	6.8
	9.0 m	kg					*15 660	*15 660					*15 490	*15 490	8.2
	7.5 m	kg					*15 940	*15 940	*14 830	*14 580			*14 710	14 540	9.2
	6.0 m	kg			*20 130	*20 130	*16 910	*16 910	*15 040	*14 790			*14 420	12 750	9.9
	4.5 m	kg			*22 670	*22 670	*18 180	*17 900	*15 610	14 500			*14 230	11 730	10.3
	3.0 m	kg			*24 740	*24 340	*19 350	18 300	*16 190	14 050			*14 140	11 230	10.4
	1.5 m	kg			*25 550	24 320	*20 030	17 680	*16 520	13 670			*14 070	11 140	10.4
	0 m	kg			*25 100	23 980	*19 990	17 340	*16 360	13 450			*13 960	11 470	10.1
	-1.5 m	kg	*27 460	*27 460	*23 610	*23 170	*19 070	17 260	*15 380	13 440			*13 720	12 340	9.6
	-3.0 m	kg	*25 020	*25 020	*20 970	*20 970	*16 970	*16 620					*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
Boom: 7.7m Arm: 3.55m Shoe: 900mm CWT: 12 700kg	10.5 m	kg					*14 590	*14 590					*13 600	*13 600	7.6
	9.0 m	kg											*12 490	*12 490	8.9
	7.5 m	kg					*14 970	*14 970	*13 890	*13 890			*11 990	*11 990	9.8
	6.0 m	kg			*18 860	*18 860	*16 060	*16 060	*14 350	*14 020			*11 840	11 670	10.5
	4.5 m	kg			*21 520	*21 520	*17 470	*17 470	*15 070	14 640	*13 540	11 420	*11 990	10 800	10.8
	3.0 m	kg			*23 930	*23 420	*18 830	*18 390	*15 810	14 130	*13 820	11 170	*12 380	10 350	11.0
	1.5 m	kg			*25 320	24 540	*19 780	17 780	*16 350	13 690	*13 950	10 930	*12 890	10 250	11.0
	0 m	kg			*25 470	23 970	*20 080	17 320	*16 470	13 390	*13 680	10 790	*13 260	10 500	10.7
	-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	kg	*27 790	*27 790	*22 410	*21 830	*18 040	17 200	*14 290	13 380			*12 860	*12 450	9.5
	-4.5 m	kg	*22 960	*22 960	*18 840	*18 840	*14 910	*14 910					*12 030	*12 030	8.4
	-6.0 m	kg	*15 550	*15 550	*12 550	*12 550							*9 820	*9 820	6.9

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
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
Undercarriage
Mechanically retractable track gauge
Hydraulic track adjusters
Greased and sealed track link
Track Guard
Under cover (10mm)
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

STANDARD EQUIPMENT
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
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

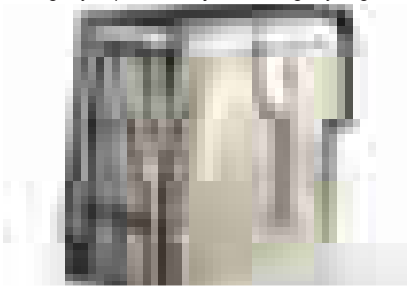
OPTIONAL EQUIPMENT
Frame
Full height counterweight:
12 700kg removal type
Undercarriage
Full track guard
Hydraulic System
Hose rupture valve: boom, arm
Straight travel pedal
Bucket conflux
Boom float function with HRV
Boom float function without HRV
Hydraulic piping:
Work tool management system (up to 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

OPTIONAL EQUIPMENT
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
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
Track shoes
750/900mm track shoes with double grousers
Digging Equipment
Boom: 7.1 m, 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)

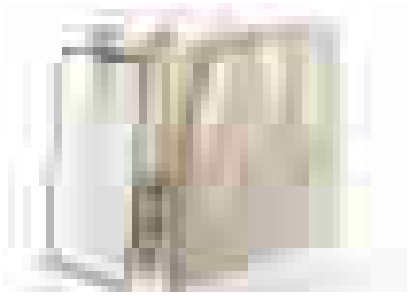


Boom float

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.

Ref. No 20047551_D / English-30 / 2017.09 / EXC / Volvo, Global Marketing