



Volvo Construction Equipment

# EC750E

Volvo Excavators 72.8-74.9 t 534 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.

## Helping you to do more.

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





Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



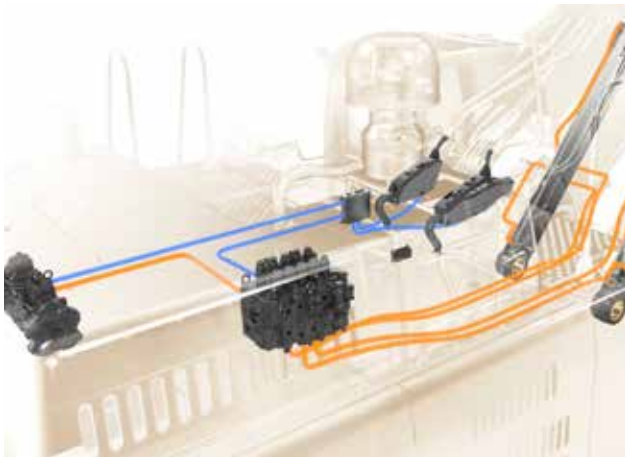
Volvo Financial Services

# Do more for less

Gain more profitability and productivity in the EC750E. The Volvo crawler excavator offers the perfect combination of power and stability to handle a higher capacity in the toughest applications. Industry-leading fuel efficiency, innovative electro-hydraulic technology and ECO Mode help to optimize production and maximize your return on investment.

## Total control

For a more productive and fuel efficient operation, the new electro-hydraulic system puts superior control in the operator's hands. Utilizing intelligent technology, the easy-to-use system controls on-demand flow and reduces internal losses in the hydraulic circuit.



## Outstanding fuel efficiency

Achieve outstanding fuel efficiency with Volvo's unique ECO Mode. ECO Mode optimizes the hydraulic system to reduce loss of flow and pressure – resulting in improved fuel efficiency without any loss of performance in most operating conditions.



## Operator's choice

Take on the most demanding working environments from the comfort of Volvo's industry-leading cab. The low noise cab provides ample storage and leg room, 12 air-conditioner vents and adjustable seat, keeping the operator fresh, alert and focused – longer. Ergonomically positioned interfaces – including the joysticks, keypad and LCD monitor – and clear all-around visibility helps you share the strong, work-all-day feeling your machine has.







# POWERED BY VOLVO

Rely on a superior performance from the EC750E to do the bigger jobs better, stronger and faster. Equipped with a powerful Volvo D16 engine, the machine utilizes advanced technology built on decades of experience, delivering increased horsepower and fuel efficiency – that benefits your bottom line.





# SUPERIOR DIGGING PERFORMANCE

Get the job done in even the most demanding conditions with the EC750E's outstanding digging force. Powered by Volvo's advanced electro-hydraulic technology, the EC750E digs, swings and loads more materials in any application.



# Winning performance

No task is too tough for the powerful EC750E. Whether you're working at a mine, a quarry or in heavy construction applications, the EC750E offers superior digging performance, outstanding fuel efficiency and quick cycle times for a maximum return on investment.

## The right mode for the job

Achieve optimum fuel efficiency and machine performance with Volvo's unique, integrated work mode system. Maximizing efficiency, the system allows operators to choose the best work mode for the task at hand - select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max).



## Get more done in less time

Cut cycle times to a minimum and increase profitability with the newly developed fully electro-hydraulic system. The Volvo hydraulic system in combination with the high power and massive torque from the Volvo D16 engine gets more done in less time. Offering faster cycle times, the EC750E ensures greater control, reduces operation costs and maximizes uptime.



## Designed for distance

Delivering 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. Experience superior access to hard-to-reach areas of your job site.



## Solid stability

Operators can work with confidence in challenging environments with outstanding stability in the EC750E. Operate adverse terrains in the well-balanced and solid machine, which features a wide track gauge, long track length, a retractable undercarriage, and an optimized counterweight.



# Built to work for you

Always available and ready for any application, the durable EC750E is designed for maximum uptime. The machine's heavy-duty design, reliable and wear-resistant components, and easy service access ensure you will get the job done quickly and without delay.

## Proven reliability

Count on a solid, reliable EC750E with Volvo's high-quality components, designed to work in perfect harmony with the machine. Volvo's commitment to rigorous testing in its development process ensures the production of well-engineered components, purpose-built for the job, and proven to be reliable in the toughest applications.



## Easy service access

Maximize uptime with quick and safer servicing. Essential maintenance points are easily accessed via the wide-opening and conveniently located compartment doors using central and surrounding walkways.



## Durable by design

Achieve non-stop production with the durable and reliable EC750E. Built with protected components, including a strong frame structure, the machine can be relied on for longevity and sustained uptime in demanding applications. A built-in, heavy-duty plate is featured for additional protection to the underside of the machine.



## Robust protection

For added safety and durability, optional FOG (Falling Object Guard) and FOPS (Falling Object Protective Structure) certified cabs provide peace-of-mind for working in tough applications. The EC750E can also be fitted with a full length track guard for added protection.







# BOOM AND ARM

Maximize machine uptime and performance for any job application with the reinforced heavy duty boom and arm built from high strength tensile steel. Designed for maximum reliability in even the most severe conditions, steel strips are welded under the arm for added protection and various boom and arm configurations are available to suit any bucket size or application.





# GENUINELY VOLVO

Volvo's attachments have been purpose-built to work in perfect coordination 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.



# Robust attachments to match

With a Volvo excavator crawler and a Volvo attachment you simply get more done. Thanks to Volvo's wide range of attachments, including the durable and hardworking general purpose, heavy duty and extreme-duty buckets, you can get the most out of your machine. Easily tailor the EC750E exactly for the applications and the conditions of your worksite.

## Heavy-duty and extreme-duty buckets

Volvo's heavy-duty and extreme-duty buckets are built using wear resistant plates, excel at digging compact materials including loose rock, hard clay and gravel. They are perfect for quarrying and mining applications and are made of reinforced high quality durable materials for a long life and superior performance. Custom made buckets are available in some regions – consult your dealer.



## Genuine Volvo teeth, cutters and edges

Volvo buckets are built with high tensile steel to increase the bucket's durability, and they are available from the factory\* with a wide range of teeth, side cutters, segments, and wear shrouds to protect the bucket and prolongs its lifespan in the harshest working conditions. \*Attachments are available for loose order in some regions, contact you dealer for more information.



## Hydraulic breaker

The EC750E can be equipped with a Volvo hydraulic breaker built to break even most demanding materials. With consistent power and high breaking force you'll benefit from maximum impact and durability. Set your Volvo breaker at the right frequency to suit your application needs.



## 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.



# Up to the challenge

## BOOM AND ARM

Maximize machine uptime and performance for any job application with the reinforced heavy duty boom and arm.

### Total control

The electro-hydraulic system controls on-demand flow and reduces internal losses in the hydraulic circuit.

### Attachment management system

The password protected attachment management system allows storage for 20 different attachments for added versatility.

### Genuine Volvo teeth, cutters and edges

Volvo buckets are available from the factory with a wide range of parts to prolong its lifespan in the harshest working conditions.

## GENUINELY VOLVO

With functions and properties ideally matched, Volvo attachments are an integrated part of the excavator for which they're intended – delivering maximum productivity.

## SUPERIOR DIGGING PERFORMANCE

The EC750E features superior digging force, particularly when working with hard and heavy materials.





### Proven reliability

Count on Volvo's high-quality components, designed to work in perfect harmony with your machine.

### Operator's choice

The comfortable cab and ease of operation, even in adverse conditions, makes operators choose this machine.

### Durable by design

Built with protected components, the EC750E can be relied on for longevity and sustained uptime.

## POWERED BY VOLVO

Rely on a top performance from the EC750E, featuring a powerful Volvo D16 engine for a fast and efficient operation.

### Solid stability

Stable in challenging environments, its quality, reliable performance and durability is everything you expect from a Volvo.

### Get more done in less time

Cut cycle times to a minimum with the newly developed fully electro-hydraulic system.

## CUSTOMER SUPPORT AGREEMENTS

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

### AdBlue®

Volvo offers a total AdBlue solution that is quality assured, cost efficient and easily accessible. Contact your Volvo dealer for more information.

® = registered trademark of the Verband der Automobilindustrie e.V. (VDA)

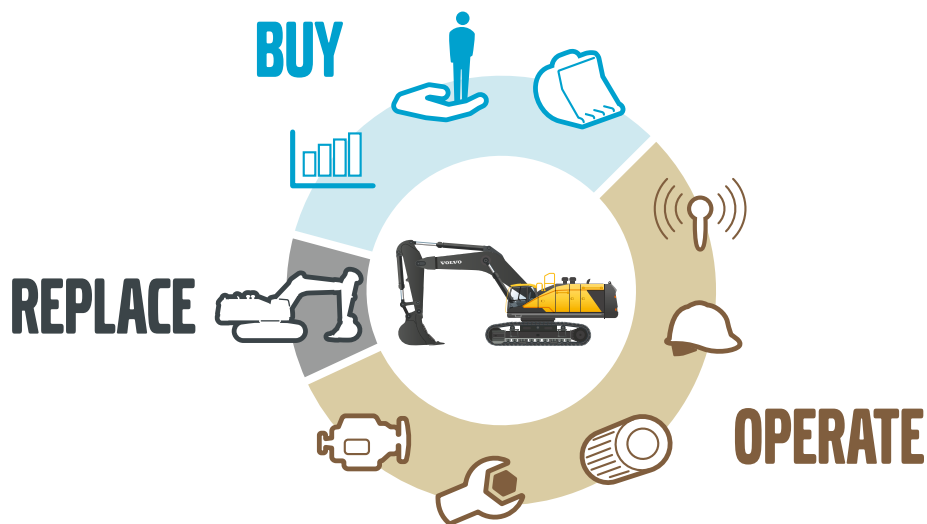


# Adding value to your business

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.

# EC750E in detail

## Engine

The latest generation, Volvo engine Tier 4f (Stage IV) emissions compliant diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and air-to-air 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	D16J
Max power at	r/min	1 800
Net, ISO 9249/SAE J1349	kW	392
	hp	533
Gross, ISO 14396/SAE J1995	kW	393
	hp	534
Max torque	Nm	2 570
at engine speed	r/min	1 350
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	2x12
Battery capacity	Ah	210
Alternator	V/Ah	28/80

## Undercarriage

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

Track shoes		48x2
Link pitch	mm	260.4
Shoe width, double grouser	mm	650/750/900
Bottom rollers		8x2
Top rollers		3x2

## 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	275.5

## 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	472
Max. travel speed (low)	km/h	2.9
Max. travel speed (high)	km/h	4.6
Gradeability	°	35

## Service Refill

Fuel tank	l	800
DEF/AdBlue® tank	l	80
Hydraulic system, total	l	655
Hydraulic tank	l	350
Engine oil	l	52
Engine coolant	l	66
Slew reduction unit	l	2 x 6.8
Travel reduction unit	l	2 x 13.5

## 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	2x450
--------------	-------	-------

### Pilot pump. Type Gear pump

Maximum flow	l/min	1x34.5
--------------	-------	--------

### Relief valve setting pressure

Implement	MPa	33.8/35.8
Travel circuit	MPa	33.8
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	200 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.

Refrigerant of the type R134a is used when this machine is equipped with air conditioning.

Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq

## 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)	108
-----	-------	-----



# Specifications

## GROUND PRESSURE

Description	EC750E						
	Shoe width	Boom 6.6 m, Arm 2.9m, Bucket 4.4m <sup>3</sup>			Boom 7.7 m, Arm 3.55m, Bucket 3.3m <sup>3</sup>		
		Counterweight 12 100kg			Counterweight 12 100kg		
	mm	kg	kPa	mm	kg	kPa	mm
Double grouser	650	73 500	106.8	4 185	73 100	106.2	4 185
	750	74 200	93.5	4 190	73 800	93.0	4 190
	900	75 300	79.0	4 340	74 900	78.6	4 340

## BUCKET SELECTION GUIDE

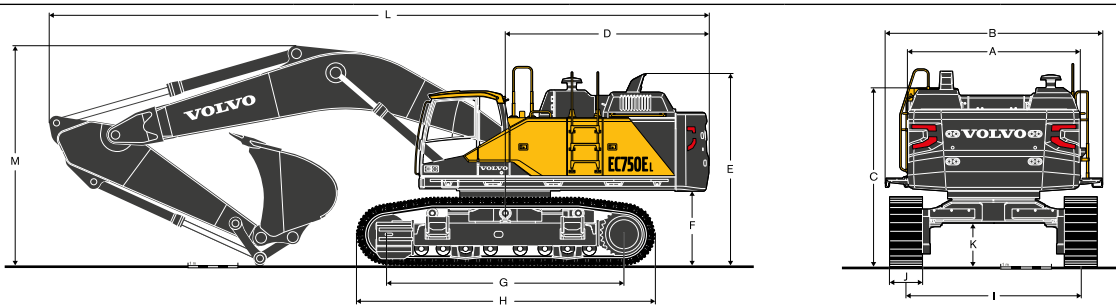
Bucket type		Capacity	Cutting width	Tip radius	Weight	Teeth	EC750E			
							6.2m Boom		7.7m Boom	
							650mm shoe, 12 100kg counterweight			
Direct fit Buckets(V4) - Universal Cut	General Purpose	m <sup>3</sup>	mm	mm	kg	EA	2.9m	2.9m	3.55m	4.2m
		Direct fit Buckets(V6) - Aggressive cut	Heavy duty	1.99	1 200	2 177	2 580	5	C	C
4.40	2 150			2 190	3 770	5	C	C	B	A
4.65	2 250			2 177	3 986	5	C	C	B	A
4.85	2 330			2 177	4 099	5	C	B	B	A
5.16	2 450			2 177	4 311	6	C	B	A	X
Extreme duty	1.99		1 200	2 190	2 864	4	D	D	D	D
	3.30		1 720	2 190	3 615	4	D	D	D	D
	4.00		2 000	2 190	4 125	5	D	D	C	B
	4.40		2 150	2 190	4 324	5	D	C	B	A
	4.65		2 250	2 190	4 439	5	D	C	B	A
Heavy duty	4.85	2 330	2 190	4 590	5	D	B	A	X	
	5.16	2 450	2 190	4 832	6	C	B	A	X	
	4.40	2 200	2 445	4 962	4	D	C	B	A	
	4.60	2 300	2 445	5 123	4	D	C	B	A	
	4.20	2 140	2 445	5 227	4	D	C	B	A	
4.40	2 200	2 445	5 326	4	D	C	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.

### Maximum material density

A	1 200~1 300 kg/m <sup>3</sup>	Coal, Caliche, Shale
B	1 400~1 600 kg/m <sup>3</sup>	Wet earth and clay, Limestone, Sandstone
C	1 700~1 800 kg/m <sup>3</sup>	Granite, Wet sand, Well blasted rock
D	1 900 kg/m <sup>3</sup> ~	Wet mud, Iron ore
X : Not recommended		

## DIMENSIONS



Description	Unit	EC750E			
Boom	m	6.6	2.9	7.7	4.2
Arm	m	2.9	2.9	3.55	4.2
A Overall width of superstructure	mm	3 420	3 420	3 420	3 420
B Overall width (Upper Structure)	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 swing radius	mm	4 140	4 140	4 140	4 140
E Overall height of diffuser	mm	3 850	3 850	3 850	3 850
Overall height of guard rail	mm	4 000	4 000	4 000	4 000
Overall height of engine hood	mm	3 540	3 540	3 540	3 540
Overall height of rain cap	mm	3 790	3 790	3 790	3 790
Overall height of cyclone	mm	3 850	3 850	3 850	3 850
Overall height of oil bath	mm	4 100	4 100	4 100	4 100
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	13 320	13 220	13 160
M Overall height of boom	mm	4 855	4 660	4 600	4 950

\* With shoe grouser

# Specifications

## DIMENSIONS

Description	Unit	EC750E	
		6.6	7.7
<b>Boom</b>	<b>m</b>	<b>6.6</b>	<b>7.7</b>
Length	mm	6 940	8 040
Height	mm	2 530	2 210
Width	mm	1 100	1 100
Weight	kg	7 320	7 710

\* Includes cylinder, piping and pin

Description	Unit	EC750E		
		2.9	3.55	4.2
<b>Boom</b>	<b>m</b>	<b>2.9</b>	<b>3.55</b>	<b>4.2</b>
Length	mm	4 280	4 960	5 600
Height	mm	1 530	1 410	1 380
Width	mm	740	740	740
Weight	kg	4 120	4 210	4 520

\* Includes bucket cylinder, linkage and pin

### Cylinder

Length	Height	Width	Weight
mm	mm	mm	kg
2 525	560	370	710 x 2 set = 1 420

### Counterweight

Length	Height	Width	Weight
mm	mm	mm	kg
3 420	1 750	660	12 100

### Undercarriage

Shoe width	Length	Height	Overall width	Weight
mm	mm	mm	mm	kg
650	5 990	1 375	1 080	10 600 x 2
750	5 990	1 375	1 080	10 950 x 2
900	5 990	1 375	1 160	11 500 x 2

### Superstructure without counterweight

Length	Height of cab	Height of diffuser	Width	Weight
mm	mm	mm	mm	kg
5 550	2 655	2 995	3 430	23 150

\* Height of rain cap 2 935

\* Height of cyclone 2 995

\* Height of oil bath 3 245

### Superstructure including UC, excluding CWT

Shoe width	Length	Height of diffuser	Overall width (retracted)	Weight
mm	mm	mm	mm	kg
650	6 780	3 850	3 495	44 350
750	6 780	3 850	3 500	45 050
900	6 780	3 850	3 650	46 150

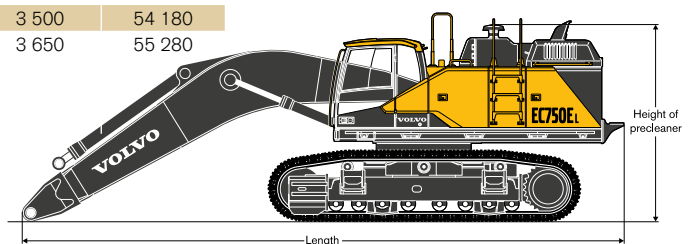
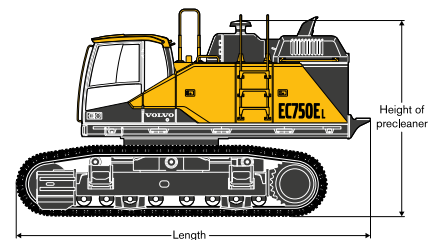
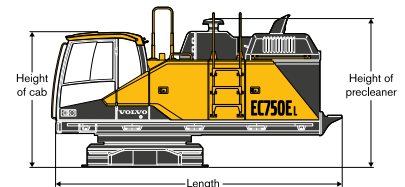
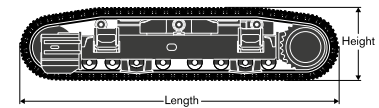
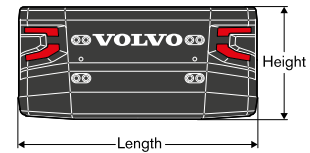
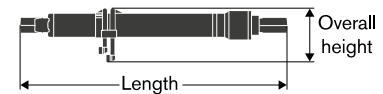
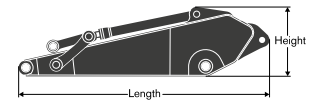
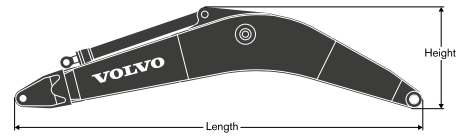
\* Height of rain cap 3 790

\* Height of cyclone 3 850

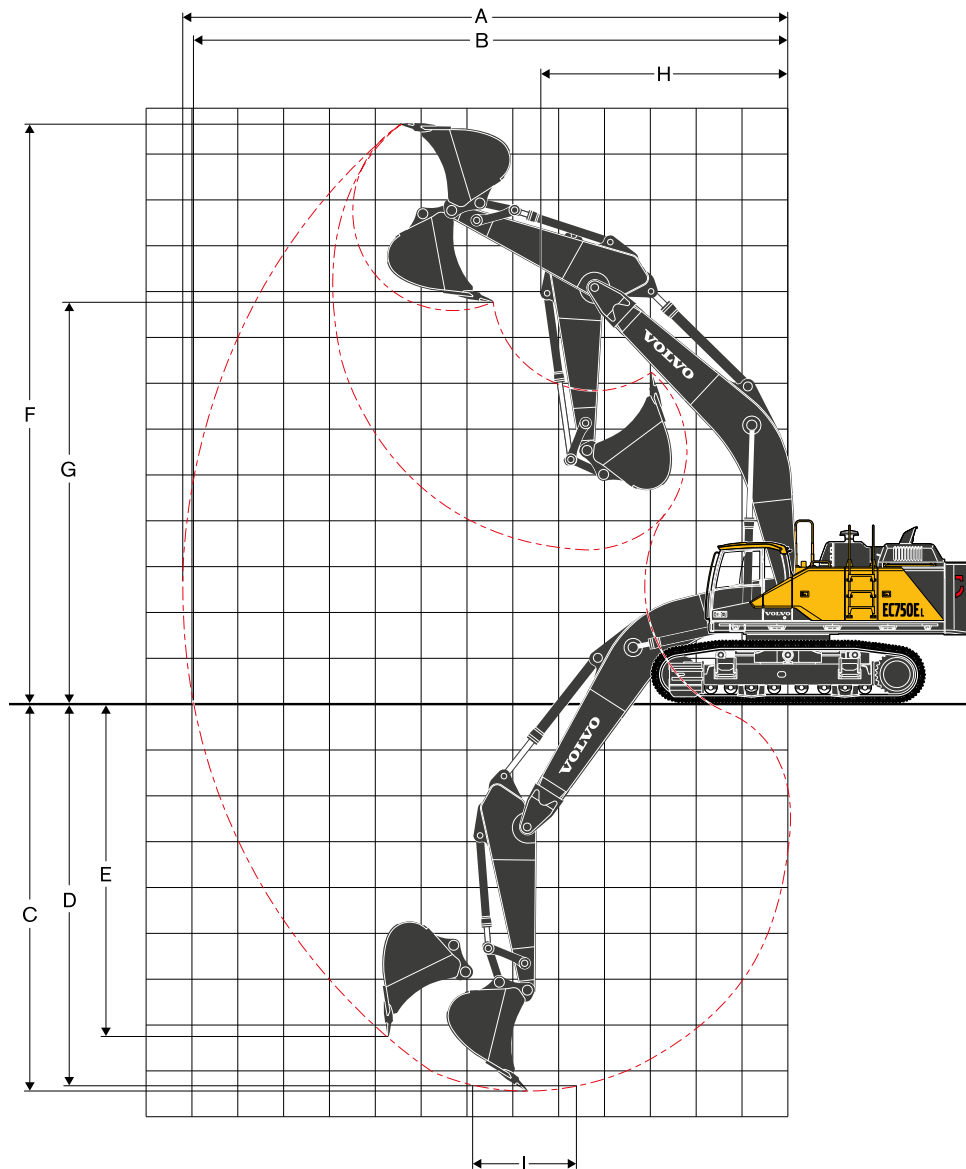
\* Height of oil bath 4 100

### Superstructure, including UC and Boom, excluding CWT

Boom	Shoe width	Length	Height of diffuser	Overall width (retracted)	Weight
m	mm	mm	mm	mm	kg
6.6	650	10 190	3 850	3 495	53 090
	750	10 190	3 850	3 500	53 790
	900	10 190	3 850	3 650	54 890
7.7	650	11 350	3 850	3 495	53 480
	750	11 350	3 850	3 500	54 180
	900	11 350	3 850	3 650	55 280
* Height of rain cap			3 790		
* Height of cyclone			3 850		
* Height of oil bath			4 100		







## WORKING RANGES

Description	Unit	EC750E			
<b>Boom</b>	<b>m</b>	<b>6.6</b>	<b>7.7</b>		
<b>Arm</b>	<b>m</b>	<b>2.9</b>	<b>2.9</b>	<b>3.55</b>	<b>4.2</b>
A Max. digging reach	mm	11 460	12 570	13 130	13 750
B Max. digging reach on ground	mm	11 160	12 300	12 870	13 500
C Max. digging depth	mm	7 210	7 720	8 370	9 020
D Max. digging depth (l = 2.44 m level)	mm	7 060	7 570	8 240	8 900
E Max. vertical wall digging depth	mm	5 650	6 740	7 390	8 010
F Max. cutting height	mm	10 940	12 430	12 600	12 910
G Max. dumping height	mm	7 000	8 450	8 650	8 970
H Min. front swing radius	mm	5 130	5 460	5 390	5 430

## DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force -bucket (Normal/Power boost)	SAE J1179	kN	323/342	300/318	303/320	303/320
	ISO 6015	kN	362/383	336/356	339/359	339/359
Tearout force -dipper arm (Normal/Power boost)	SAE J1179	kN	311/329	316/334	277/293	248/262
	ISO 6015	kN	319/337	322/341	282/298	252/266
Rotation angle, bucket		kN	174	174	174	174







# Equipment

## STANDARD EQUIPMENT

### Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets Tier 4f EU (Stage IV) requirements

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 l/min 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

Short cut switch

Safety stop/start function

Adjustable 8inch LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen lights:

Cab-mounted 2

Frame-mounted 2

Boom-mounted 4

Batteries, 2 x 12 V / 210 Ah

Start motor, 24 V / 7 kW

### Frame

Access way with handrail

Full height counterweight 12 100kg

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

### Hydraulic System

Hose rupture valve: boom

Overload warning device

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 4 switches each

Heater & air-conditioner, automatic

Flexible antenna

AM/FM stereo with MP3, USB and bluetooth input

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

Rain shield

Windshield wiper with intermittent feature

Master key

### 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: 120 V, 240 V

Dual stage oil bath pre-cleaner

Diesel coolant heater, 10 kW, 12kW

Water separator with heater

Auto engine shutdown

### Electric

Extra work lights: Halogen/LED

Cab-mounted 3 (front 2, rear 1)

Boom-mounted 4

Frame-mounted 2

Counterweight-mounted 1

Travel alarm

Anti-theft system

Rotating warning beacon



---

**OPTIONAL EQUIPMENT**

---

**Frame**

Full height counterweight:  
12 100kg removal type

**Undercarriage**

Full track guard

**Hydraulic System**

Hose rupture valve: 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

Hydraulic oil, ISO VG 32, 68

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32, 46, 68

Hydraulic hose for Artic

---

**OPTIONAL EQUIPMENT**

---

**Cab and interior**

One-piece fixed front windshield

Fabric seat without heater

Fabric seat with heater and air suspension

Control joysticks with semi-long

Control joysticks with 3 switch & 1 proportional

Pilot control pattern changw

Opening top hatch

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

Anti-vandalism kit

Specific key

**Track shoes**

750/900mm track shoes with double grousers

**Digging equipment**

Boom: 7.7m

Arm: 2.9m, 3.55m, 4.2m

**Service**

Tool kit, daily maintenance

Tool kit, full scale

Special tool for retractable frame

Automatic lubrication system

---

**SELECTION OF VOLVO OPTIONAL EQUIPMENT**

---

**Auto lubrication system****Side view camera****Boom float****Bucket conflux****Dual stage oil bath pre-cleaner****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.



**VOLVO**

Volvo Construction Equipment

[www.volvoce.com](http://www.volvoce.com)