

V O L V O



Volvo Excavators 13.2-17.0 t 122 hp

EC140E

Volvo Construction Equipment



Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



Solutions for you

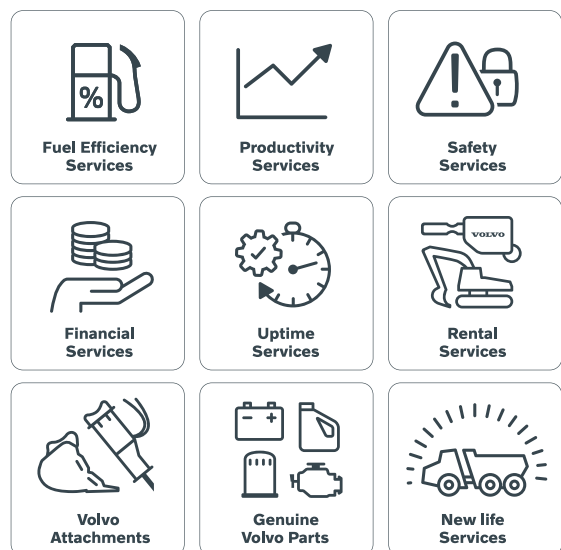
Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.



BUILDING TOMORROW

Efficient effective performance

All the EC140E features have been designed to work in harmony to deliver every function with superior efficiency. The machine not only produces maximum uptime it also incorporates the latest fuel efficiency technology, to reduce emissions and consumption, while increasing productivity.

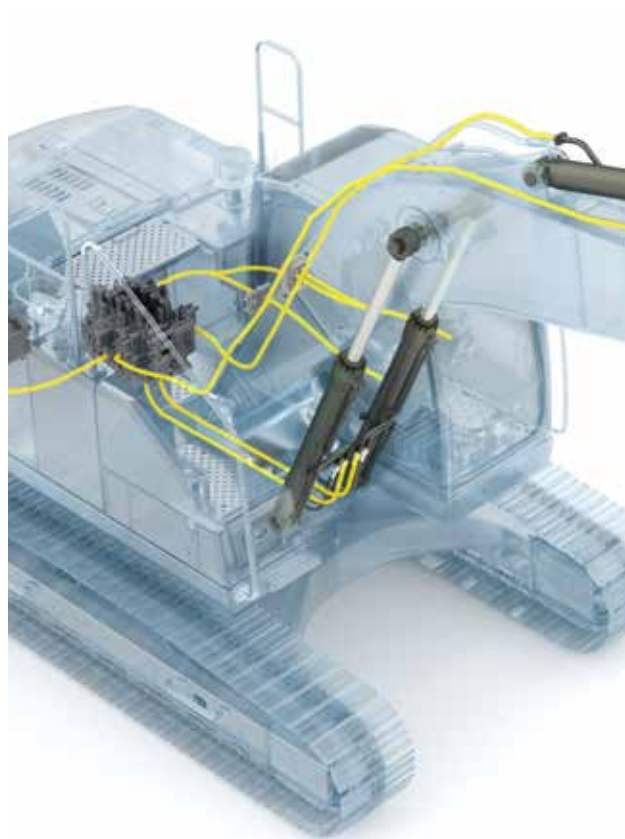
Volvo engine

Featuring proven advanced technology, and built on decades of experience, Volvo's robust D4 Stage V engine boasts more power - while reducing both fuel consumption and emissions to deliver superior quality, reliability and durability.



Increased power

The increased engine power combined with the increased pump input power creates a highly responsive combined operation and travel. It also produces faster cycle times and low fuel consumption which leads to higher productivity.



Boom float function

With the boom float function, the pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.



Main Control Valve and Software

This valve is compatible with software in the machine – building on the already superior controllability by providing a smooth and easy operation. It is also compatible with Volvo's ECO mode – this provides electronic pump control to enhance fuel efficiency.



OPTIMIZED HYDRAULICS SYSTEM

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with D4 Stage V engine to match the engine power, reduce power loss and improve controllability and response time.



HUMAN MACHINE INTERFACE (HMI)

All machine interfaces – including joysticks, keypad, panel and larger LCD monitor – are ergonomically designed for optimum control and efficiency, resulting in increased productivity and workplace wellbeing. The number of switches have been simplified and climate control integrated into the keypad for easy adjustments.

Easy to see why it's first choice

Building on the already strong reputation for operator space and comfort, Volvo always strive for improvement – even when they are industry first choice. By putting operator comfort first the EC140E has developed a cab which has everything at the operator's fingertips. This not only increases wellbeing but will increase productivity without even trying.

Side view camera

As well as the rear view camera, side view camera can be optionally available for customers' comfort. Both views are displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.



Short-cut key

For added convenience, functions such as windshield wipers, cameras, auto-mute or power max function can all be assigned a short-cut button on the joystick. This allows the operator to select a function during the application without disruption.



Bluetooth®

To aid operator convenience and support better productivity, you can now connect a Bluetooth device to the machine enabling the handsfree function.



Seatbelt warning alarm

If the seatbelt is not buckled when the ignition key is turned, an alarm is triggered in intervals along with a continuous visual alert. This emphasises our priority for operator safety.



Increasing your expectations

Volvo stands for quality and the EC140E is a symbol of this. It is a machine with a full armoury of state-of-the-art features but in every feature the number one priority is durability. Your working conditions are some of the most demanding and the EC140E responds through continued quality which you can rely on.

ROPS

The cab features ROPS – this reinforced steel structure ensures the operator is protected in the unlikely event of the machine rolling over, while it also meets the ISO standards for safety.



Boom and Arm

The robust design includes internal plates positioned to support pressure points during the range of applications. This helps disperse the stress from high-pressure areas of the boom and arm, to ensure maximum productivity time after time, during the most demanding applications.



Lower frame

The intelligently designed X-shape lower frame enables even weight distribution increasing stability and durability - preventing damage from rock and debris.



Undercarriage

The idlers, track links, upper and bottom rollers are built to withstand all elements and terrain, to create improved long-lasting durability and support maximum uptime.





BUILT TO LAST

Working in tough conditions means every component matters - this is why Volvo pays extra attention to each detail during the manufacturing and product design processes. Silicone caulking is used to prevent rust, waterproof harnesses and connections are installed - as well as heavy-duty door hinges and bolted-on protection for the frame-work lights.



ULTIMATE TOOL CARRIER

The machine can be adjusted to take a wide variety of hydraulic lines, which are factory fitted with breaker and shear piping (X1), as well as rotator piping (X3). State-of-the-art auxiliary lines provide the correct flow and pressure for special attachments such as mowers and grinders, shears, crushers and tilt rotators among other attachments. You can choose between the one or two pump flow to maximize profits and productivity.

The pick of the bunch

No customer has one job, so a machine should mirror these requirements.

Volvo has listened to customer needs and built a machine in the EC140E that is not only capable of doing a variety of applications but can do them all at an unrivalled consistent quality – easily switching between attachments to maximise uptime and productivity.

Attachment Management System

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab, which ensures the use of various attachments for increased versatility.



Extra piping

An additional piping solution is available on the breaker and shear piping (X1), accommodating the use of tilt/rotator attachments.



Electrical pedal

The electric pedal offers precise control to allow the operator to use a wider variety of attachments.



Response mode

The attachment response sensitivity can be adjusted using the keypad. This allows the operator to tailor machine response for maximum impact in different environments.



Routine check-ups

Proactive maintenance is crucial to prolong machine life – this is why making inspections safe and easy is a priority. Volvo have Grouped access points together and made them safer to reach to ensure regular checks to maximise machine uptime while reducing the chances of any surprises.

Grouped filters

Filters are well grouped and easily accessible from the ground level. This facilitates the speed and ease of servicing.



Single layer cooling system

The radiator, charged air cooler and hydraulic oil cooler are situated side-by-side on a single layer, to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed from ground level by simply opening the side door.



Service interval alerts

Real-time service alerts are displayed on the colour monitor to enable diagnostic checks. Separate service intervals include – the engine oil filter, fuel filter, water separator, hydraulic oil and hydraulic oil filter. This ensures peace of mind and maximum uptime.



Anti-slip steel plates

Well-positioned punched anti-slip plates provide superior grip and durability. The design facilitates easy cleaning while promoting safety.





SERVICE ACCESS

Easy access for maintenance means regular checks are completed faster – increasing uptime and driving down total cost of ownership. The E-series features a new convenient and safe access such as guardrails - to check the hydraulic tank, fuel tank and AdBlue®. This is in addition to the easily accessible side entry, through a wide compartment door. ® = registered trademark of the Verband der Automobilindustrie e.V. (VDA)



MATCHED ATTACHMENTS

Volvo's durable 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.

Mix and match for a superior fit

Maximize your productivity and profitability with Volvo's EC140E crawler excavators and a range of durable attachments. Increase your versatility, access more applications and perform a variety of tasks – all while experiencing faster cycle times and excellent control.

Buckets – GP/HD/XD

Volvo's buckets are the perfect tool for digging and re-handling in all conditions from soft, medium and hard materials. Heavy-duty buckets are intended for productive digging in compact materials. All provide maximum productivity and long life and feature original Volvo wear components.



Breakers HB14, HB15

The HB-Series of hydraulic breakers are optimized to the specific weights of Volvo machines and tailored to Volvo quick couplers for swift, safe and simple attachment changes. They are available with a full assortment of tools.



Quick Coupler

Volvo offers a full range of quick couplers, from its dedicated Volvo S-type coupler to the Steelwrist® ones. Both couplers feature Front Pin Lock technology, which allows supreme safety when changing attachments. Those innovative couplers are not only designed to fit perfectly with Volvo excavators but they also comply with the latest safety regulations of ISO 13031 and EN474-1. Steelwrist® is a registered trademark of Steelwrist AB



Tilt Rotator

Volvo's tilt rotator can be ordered factory installed with multifunctional joysticks and color display that's fully integrated into the machine's system. The new series of Volvo XD excavator buckets are perfectly matched to the factory installed tilt rotator.



Improved total cost of ownership

Boom float function

The pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.

Optimized hydraulics system

Designed to perfectly match the engine power, reduce power loss, and improve controllability and response time.

Ultimate tool carrier

Designed to not only be compatible with a range of attachments, but also to enhance their performance by easily and quickly switching to accommodate any needs.

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)

Boom and Arm

To achieve the best performance, select the most suitable boom and arm configuration combination for your requirements.

Attachment Management System

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab.



Side view camera

Covers the visual blind spot at the side of machine. View is displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.

Short-cut key

For ease of use, functions such as windshield wipers, cameras, auto-mute or power max function can all be assigned a short-cut button on the joystick.

HMI

All machine interfaces are ergonomically positioned and designed for optimum control and efficiency.

Bluetooth®

Bluetooth and hands-free functions have been added, allowing the operator to connect to wireless functions for increased comfort and safety.

Service access

The E-series features a new convenient and safe access - such as guardrails - to check the hydraulic tank, fuel tank and AdBlue. This is in addition to the easily accessible side entry, through a wide compartment door.

Volvo engine

Volvo's D4 Stage V engine boasts more power while reducing both fuel consumption and emissions; delivering superior quality, reliability and durability.

Built to last

All detail – no matter how small - is overlooked. Silicone caulking is used to prevent rust, waterproof harnesses and connections have been installed - as well as heavy-duty door hinges and bolted-on protection for the framework lights.

Grouped filters

Filters are well grouped and easily accessible from the ground level. This facilitates the speed and ease of servicing.

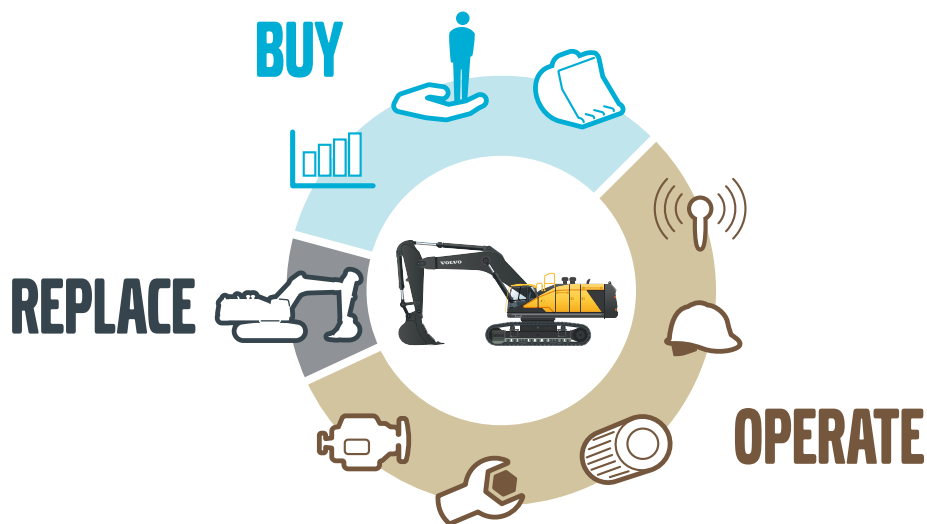


Adding value to your business

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 EC140E in detail

Engine

The latest generation, Volvo engine Stage V 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, high pressure 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	D4J
Max power at	r/min	2 000
Net, ISO 9249/SAE J1349	kW	89
	hp	121
Gross, ISO 14396/SAE J1995	kW	90
	hp	122
Max torque	Nm	566
at engine speed	r/min	1 500
No. of cylinders		4
Displacement	l	4.04
Bore	mm	101
Stroke	mm	126

Electrical system

Well protected high-capacity electrical system. 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	100
Alternator	V/A	28/80
Start motor	V - kW	24 - 5.5

Swing system

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

Max. slew speed	r/min	13
Max. slew torque	kNm	39

Travel System

Each track is powered by an automatic two-speed shift travel

EC140EL

Max. drawbar pull	kN	119
Max. travel speed (low)	km/h	3.1
Max. travel speed (high)	km/h	5.5
Gradeability	°	35

EC140ELM

Max. drawbar pull	kN	140
Max. travel speed (low)	km/h	2.6
Max. travel speed (high)	km/h	4.5
Gradeability	°	35

Undercarriage

Robust X-shaped frame with greased and sealed track chains as standard

EC140EL

Track shoe		2 x 46
Link pitch	mm	171
Shoe width, triple grouser	mm	500 / 600 / 700 / 750
Shoe width, triple grouser (HD)	mm	600
Shoe width, rubber grouser	mm	500
Bottom rollers		2 x 7
Top rollers		2 x 1

EC140ELM

Track shoe		2 x 42
Link pitch	mm	190
Shoe width, triple grouser	mm	600 / 700 / 800 / 900
Bottom rollers		2 x 6
Top rollers		2 x 2

Hydraulic system

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with engine to match the engine power, reduce power loss and improve controllability and response time.

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.

Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

Swing priority: Gives priority to swing functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

Power boost: All digging and lifting forces are increased.

Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

Main pump. Type: 2 x variable displacement axial piston pumps

Maximum flow	l/min	2 x 124
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Pilot pump. Type: Gear pump

Maximum flow	l/min	1 x 20
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Relief value setting pressure

Implement	MPa	32.4 / 34.3
Travel circuit	MPa	34.3
Slew circuit	MPa	24.5
Pilot circuit	MPa	3.9

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	105 x 980
2 piece boom		1
Bore x Stroke	ø x mm	160 x 765
Arm		1
Bore x Stroke	ø x mm	120 x 1 045
Bucket		1
Bore x Stroke	ø x mm	100 x 865
Dozer blade		2
Bore x Stroke	ø x mm	130 x 270

Service Refill

Fuel tank	l	250
DEF/AdBlue® tank	l	20
Hydraulic system, total	l	230
Hydraulic tank	l	85
Engine oil	l	16
Engine coolant	l	28
Slew reduction unit	l	3.9
Travel reduction unit	l	2 x 2.2

Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

Integrated air-conditioning and heating system:

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

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

Sound Level

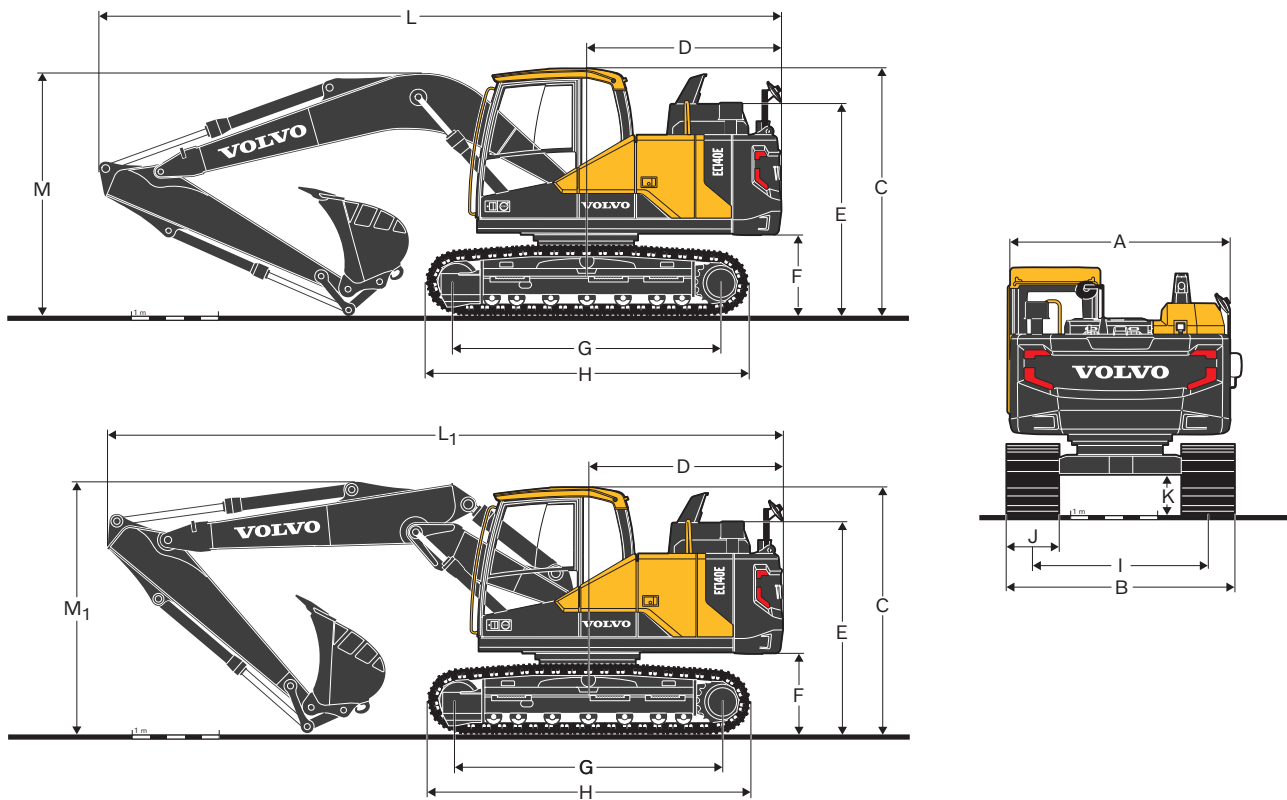
Sound pressure level in cab according to ISO 6396

L _{pA} (standard)	dB	69
L _{pA} (tropical)	dB	70

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

L _{wA} (standard)	dB	100
L _{wA} (tropical)	dB	101

Specifications

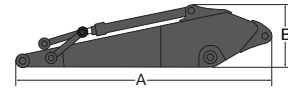
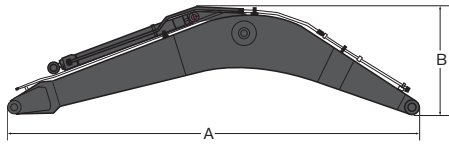


DIMENSIONS

Description		Unit	EC140EL			EC140ELM		
Boom		m	4.6 mono or 4.6 2-piece			4.6 mono or 4.6 2-piece		
Arm		m	2.1	2.5	3.0	2.1	2.5	3.0
A	Overall width of upper structure	mm	2 490	2 490	2 490	2 490	2 490	2 490
B	Overall width	mm	2 590	2 590	2 590	2 690	2 690	2 690
C	Overall height of cab	mm	2 800	2 800	2 800	2 994	2 994	2 994
D	Tail swing radius	mm	2 200	2 200	2 200	2 200	2 200	2 200
E	Overall height of engine hood	mm	2 400	2 400	2 400	2 590	2 590	2 590
F	Counterweight clearance*	mm	920	920	920	1 113	1 113	1 113
G	Tumbler length	mm	3 040	3 040	3 040	3 000	3 000	3 000
H	Track length	mm	3 760	3 760	3 760	3 790	3 790	3 790
I	Track gauge	mm	1 990	1 990	1 990	1 990	1 990	1 990
J	Shoe width	mm	600	600	600	700	700	700
K	Min. ground clearance*	mm	436	436	436	580	580	580
L	Overall length	mm	7 720	7 720	7 650	7 690	7 720	7 690
L1	Overall length	mm	7 700	7 660	7 560	7 700	7 690	7 640
M	Overall height of boom	mm	2 710	2 830	3 210	2 780	2 900	3 210
M1	Overall height of boom	mm	2 720	2 860	3 310	2 820	2 950	3 280
Guardrail		mm	-	-	-	3 130	3 130	3 130

* Without shoe grouser

1 2-piece boom

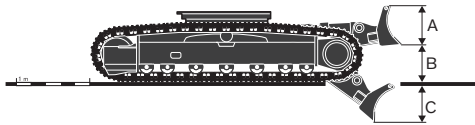


DIMENSIONS

Description	Unit	mono	2-piece	Description	Unit	2.1	2.5	3.0
Boom	m	4.6	4.6	Arm	m			
Length (A)	mm	4 770	4 765	Length (A)	mm	2 800	3 200	2 700
Height (B)	mm	1 370	1 225	Height (B)	mm	710	710	780
Width	mm	545	545	Width	mm	300	300	300
Weight	kg	1 100	1 900	Weight	kg	555	625	685

* Includes cylinder, piping and pin, excludes boom cyl. Pin

* Includes cylinder, linkage and pin



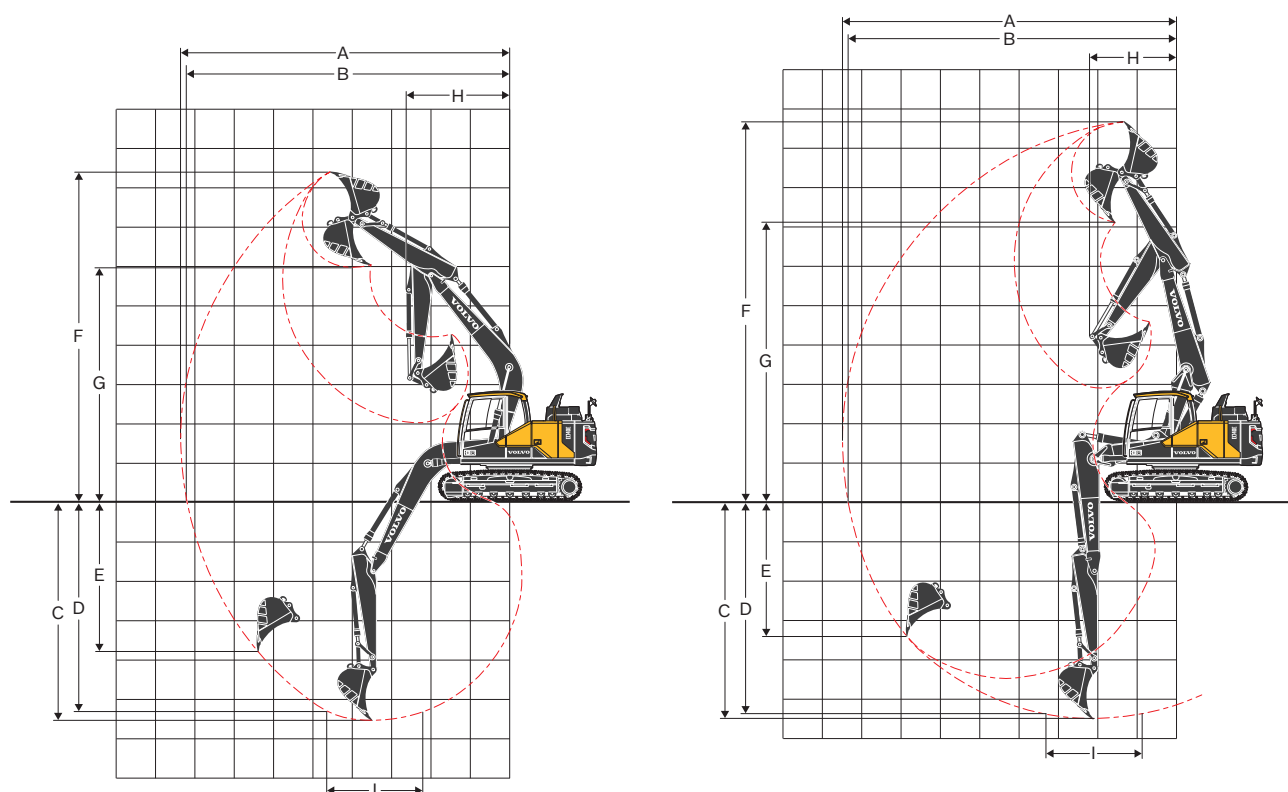
DIMENSIONS

Description	Unit	
Front dozer blade		
Height (A)	mm	580
Width	mm	2 590
Weight	kg	458
Lift height (B)	mm	480
Digging depth (C)	mm	600

MACHINE WEIGHTS AND GROUND PRESSURE

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
		EC140EL					
		4.6m boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight			4.6m 2-piece boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight		
Triple grouser	500	14 390	43.1	2 490	14 810	44.1	2 490
	600	14 590	36.3	2 590	15 010	37.3	2 590
	700	14 790	31.4	2 690	15 210	32.4	2 690
	750	14 970	29.4	2 740	15 390	30.4	2 740
Triple grouser HD	600	14 660	36.3	2 590	15 080	37.3	2 590
Rubber grouser	500	14 430	42.2	2 490	14 850	44.1	2 490
		EC140EL with dozer blade					
		4.6m boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight			4.6m 2-piece boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight		
Triple grouser	500	15 330	46.1	2 490	15 750	47.1	2 490
	600	15 530	38.2	2 590	15 950	39.2	2 590
	700	15 730	33.3	2 690	16 150	34.3	2 690
	750	15 910	31.4	2 740	16 330	32.4	2 740
Triple grouser HD	600	15 600	38.2	2 590	16 020	40.2	2 590
Rubber grouser	500	15 370	45.1	2 490	15 790	47.1	2 490
		EC140ELM					
		4.6m boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight			4.6m 2-piece boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight		
Triple grouser	600	15 780	39.2	2 590	16 200	40.2	2 590
	700	15 990	34.3	2 690	16 410	35.3	2 690
	800	16 410	30.4	2 790	16 830	31.4	2 790
	900	16 650	27.5	2 890	17 070	28.4	2 890

Specifications



WORKING RANGES

Description	Unit	EC140EL						EC140ELM					
Boom	m	4.6 mono			4.6 2-piece			4.6 mono			4.6 2-piece		
Arm	m	2.1	2.5	3.0	2.1	2.5	3.0	2.1	2.5	3.0	2.1	2.5	3.0
A Max. digging reach	mm	7 980	8 360	8 850	8 080	8 460	8 960	7 980	8 360	8 850	8 080	8 460	8 960
B Max. digging reach on ground	mm	7 840	8 220	8 720	7 930	8 320	8 830	7 800	8 180	8 680	7 890	8 290	8 790
C Max. digging depth	mm	5 160	5 560	6 060	5 080	5 480	5 980	4 960	5 360	5 860	4 890	5 280	5 790
D Max. digging depth (l = 2.44m level)	mm	4 900	5 340	5 880	4 960	5 360	5 870	4 710	5 140	5 680	4 760	5 170	5 680
E Max. vertical wall digging depth	mm	3 970	4 330	4 870	3 970	4 340	4 830	3 770	4 140	4 670	3 780	4 140	4 630
F Max. cutting height	mm	8 120	8 360	8 710	9 270	9 630	10 110	8 320	8 550	8 910	9 470	9 830	10 300
G Max. dumping height	mm	5 720	5 950	6 290	6 730	7 100	7 570	5 910	6 150	6 490	6 930	7 290	7 770
H Min. front swing radius	mm	2 570	2 630	2 740	1 740	1 990	2 410	2 570	2 630	2 740	1 740	1 990	2 410

Digging forces with direct fit bucket

Bucket radius		mm	1 274	1 274	1 274	1 274	1 274	1 274	1 274	1 274	1 274	1 274	1 274	1 274
Breakout force -bucket	Normal SAE J1179	kN	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
	Power boost SAE J1179	kN	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
	Normal ISO 6015	kN	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
	Power boost ISO 6015	kN	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
Tearout force -dipper arm	Normal SAE J1179	kN	69.6	62.1	55.2	69.6	62.1	55.2	69.6	62.1	55.2	69.6	62.1	55.2
	Power boost SAE J1179	kN	73.8	65.9	58.6	73.8	65.9	58.6	73.8	65.9	58.6	73.8	65.9	58.6
	Normal ISO 6015	kN	71.5	63.5	56.3	71.5	63.5	56.3	71.5	63.5	56.3	71.5	63.5	56.3
	Power boost ISO 6015	kN	75.8	67.4	59.7	75.8	67.4	59.7	75.8	67.4	59.7	75.8	67.4	59.7
Rotation angle, bucket		°	175	175	175	175	175	175	175	175	175	175	175	175

BUCKET SELECTION GUIDE

Bucket type			Capacity	Cutting width	Weight	Teeth	EC140EL					
							4.6m boom			4.6m 2-piece boom		
							600mm shoe, 2 450kg counterweight					
							L	mm	kg	EA	2.1m arm	2.5m arm
Direct fit buckets	Without quick coupler	General purpose	660	1 050	443	4	C	C	C	C	C	C
			770	1 200	504	5	C	C	C	C	C	C
			250	450	293	3	C	C	C	C	C	C
			330	600	324	3	C	C	C	C	C	C
			420	750	355	3	C	C	C	C	C	C
			540	900	403	4	C	C	C	C	C	C
	U type quick coupler	General purpose	660	1 050	443	4	C	C	C	C	C	C
			770	1 200	504	5	C	C	B	C	C	B
			250	450	293	3	C	C	C	C	C	C
			330	600	324	3	C	C	C	C	C	C
			420	750	355	3	C	C	C	C	C	C
			540	900	403	4	C	C	C	C	C	C
Quick coupler buckets	S-quick coupler	General purpose	660	1 050	446	4	C	C	C	C	C	C
			770	1 200	508	5	C	C	C	C	C	B
			330	600	327	3	C	C	C	C	C	C
			420	750	357	3	C	C	C	C	C	C
			540	900	406	4	C	C	C	C	C	C
Bucket type			Capacity	Cutting width	Weight	Teeth	EC140ELM					
							4.6m boom			4.6m 2-piece boom		
							700mm shoe, 2 450kg counterweight					
							L	mm	kg	EA	2.1m arm	2.5m arm
Direct fit buckets	Without quick coupler	General purpose	660	1 050	443	4	C	C	C	C	C	C
			770	1 200	504	5	C	C	C	C	C	C
			250	450	293	3	C	C	C	C	C	C
			330	600	324	3	C	C	C	C	C	C
			420	750	355	3	C	C	C	C	C	C
			540	900	403	4	C	C	C	C	C	C
	U type quick coupler	General purpose	660	1 050	443	4	C	C	C	C	C	C
			770	1 200	504	5	C	C	C	C	C	C
			250	450	293	3	C	C	C	C	C	C
			330	600	324	3	C	C	C	C	C	C
			420	750	355	3	C	C	C	C	C	C
			540	900	403	4	C	C	C	C	C	C
Quick coupler buckets	S-quick coupler	General purpose	660	1 050	446	4	C	C	C	C	C	C
			770	1 200	508	5	C	C	C	C	C	C
			330	600	327	3	C	C	C	C	C	C
			420	750	357	3	C	C	C	C	C	C
			540	900	406	4	C	C	C	C	C	C

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/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

LIFTING CAPACITY EC140EL (with dozer blade)

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	1.5 m		3.0 m		4.5 m		6.0 m		7.5 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 :	4.6m	6.0 m kg					*3 320	*3 320					*3 500	*3 500	4.9
Arm :	2.1m	4.5 m kg					*3 470	*3 470					*3 570	2930	6.0
Shoe :	600mm	3.0 m kg			*6 230	*6 230	*4 330	*4 330	*3 750	2870			*3 710	2520	6.5
CWT :	2 450kg	1.5 m kg					*5 390	4180	*4 170	2790			*3 910	2370	6.7
		0.0 m kg			*5 400	*5 400	*6 100	4040	*4 520	2730			*4 160	2420	6.5
		-1.5 m kg	*5 010	*5 010	*9 440	7420	*6 220	4010					*4 470	2730	6.0
		-3.0 m kg			*8 220	7550	*5 470	4070					*4 820	3630	4.9
Boom :	4.6m	6.0 m kg					*2 840	*2 840					*3 210	*3 210	5.4
Arm :	2.5m	4.5 m kg					*3 080	*3 080	*3 190	2950			*3 170	2650	6.4
Shoe :	600mm	3.0 m kg			*5 330	*5 330	*3 950	*3 950	*3 490	2890			*3 160	2310	6.9
CWT :	2 450kg	1.5 m kg					*5 070	4200	*3 970	2790			*3 340	2180	7.1
		0.0 m kg			*5 970	*5 970	*5 920	4040	*4 400	2710			*3 740	2220	6.9
		-1.5 m kg	*4 550	*4 550	*9 610	7360	*6 220	3970	*4 520	2680			*4 150	2460	6.4
		-3.0 m kg	*8 940	*8 940	*8 690	7450	*5 770	4010					*4 510	3120	5.4
Boom :	4.6m	7.5 m kg											*2 870	*2 870	4.5
Arm :	3.0m	6.0 m kg							*2 860	*2 860			*2 810	*2 810	6.0
Shoe :	600mm	4.5 m kg							*2 780	*2 780			*2 640	2330	6.9
CWT :	2 450kg	3.0 m kg					*3 440	*3 440	*3 140	2890			*2 630	2060	7.4
		1.5 m kg			*7 320	*7 320	*4 620	4220	*3 680	2780	*3 110	1990	*2 760	1960	7.6
		0.0 m kg			*6 510	*6 510	*5 620	4010	*4 190	2680			*3 040	1980	7.4
		-1.5 m kg	*3 990	*3 990	*8 760	7250	*6 110	3910	*4 460	2620			*3 590	2160	6.9
		-3.0 m kg	*7 370	*7 370	*9 080	7310	*5 950	3920	*4 160	2650			*4 100	2620	6.0
		-4.5 m kg			*7 210	*7 210							*4 480	4080	4.5
Boom :	4.6m 2-piece	7.5 m kg											*5 580	*5 580	2.9
Arm :	2.1m	6.0 m kg			*5 070	*5 070	*4 800	4670					*3 980	3890	5.0
Shoe :	600mm	4.5 m kg			*5 470	*5 470	*4 950	4620	*4 100	2930			*3 580	2860	6.1
CWT :	2 450kg	3.0 m kg					*5 740	4420	*4 700	2880			*3 510	2460	6.6
		1.5 m kg					*6 600	4190	*4 980	2790			*3 650	2330	6.8
		0.0 m kg					*6 940	4040	*5 060	2720			*4 050	2380	6.6
		-1.5 m kg			*9 290	7420	*6 480	4000	*4 440	2720			*4 300	2670	6.1
Boom :	4.6m 2-piece	7.5 m kg			*5 180	*5 180							*4 160	*4 160	3.8
Arm :	2.5m	6.0 m kg			*4 390	*4 390	*4 320	*4 320					*3 210	*3 210	5.5
Shoe :	600mm	4.5 m kg			*4 120	*4 120	*4 560	*4 560	*4 230	2970			*2 930	2580	6.5
CWT :	2 450kg	3.0 m kg					*5 390	4470	*4 480	2900			*2 870	2260	7.0
		1.5 m kg					*6 360	4210	*4 850	2790			*2 970	2140	7.2
		0.0 m kg					*6 880	4030	*5 040	2710			*3 250	2180	7.0
		-1.5 m kg			*9 130	7350	*6 650	3970	*4 740	2680			*3 820	2410	6.5
		-3.0 m kg					*5 410	4010							5.5
Boom :	4.6m 2-piece	7.5 m kg			*4 120	*4 120	*3 610	*3 610					*3 250	*3 250	4.6
Arm :	3.0m	6.0 m kg					*3 750	*3 750	*3 160	2990			*2 660	*2 660	6.2
Shoe :	600mm	4.5 m kg			*3 000	*3 000	*3 780	*3 780	*3 850	2990			*2 450	2270	7.1
CWT :	2 450kg	3.0 m kg					*4 890	4520	*4 170	2910	*2 550	2030	*2 400	2010	7.5
		1.5 m kg					*5 980	4240	*4 620	2780	*3 330	1990	*2 470	1910	7.7
		0.0 m kg					*6 710	4010	*4 940	2680	*2 880	1950	*2 660	1940	7.5
		-1.5 m kg	*3 630	*3 630	*8 260	7240	*6 740	3910	*4 870	2620			*3 070	2110	7.1
		-3.0 m kg			*8 660	7300	*5 900	3910	*3 900	2650			*3 580	2560	6.2

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 EC140EL (with dozer blade)

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		1.5 m		3.0 m		4.5 m		6.0 m		7.5 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 :	4.6m	6.0 m	kg					*3 320	*3 320					*3 500	*3 500	4.9
Arm :	2.1m	4.5 m	kg					*3 470	*3 470					*3 570	2920	6.0
Shoe :	500mm	3.0 m	kg			*6 230	*6 230	*4 330	*4 330	*3 750	2860			*3 710	2500	6.5
CWT :	2 450kg	1.5 m	kg					*5 390	4160	*4 170	2770			*3 910	2360	6.7
		0.0 m	kg			*5 400	*5 400	*6 100	4020	*4 520	2710			*4 160	2410	6.5
		-1.5 m	kg	*5 010	*5 010	*9 440	7380	*6 220	3980					*4 470	2710	6.0
		-3.0 m	kg			*8 220	7500	*5 470	4050					*4 820	3600	4.9
Boom :	4.6m	6.0 m	kg					*2 840	*2 840					*3 210	*3 210	5.4
Arm :	2.5m	4.5 m	kg					*3 080	*3 080	*3 190	2930			*3 170	2630	6.4
Shoe :	500mm	3.0 m	kg			*5 330	*5 330	*3 950	*3 950	*3 490	2870			*3 160	2290	6.9
CWT :	2 450kg	1.5 m	kg					*5 070	4180	*3 970	2770			*3 340	2170	7.1
		0.0 m	kg			*5 970	*5 970	*5 920	4010	*4 400	2690			*3 740	2210	6.9
		-1.5 m	kg	*4 550	*4 550	*9 610	7310	*6 220	3950	*4 520	2660			*4 150	2440	6.4
		-3.0 m	kg	*8 940	*8 940	*8 690	7400	*5 770	3980					*4 510	3100	5.4
Boom :	4.6m	7.5 m	kg											*2 870	*2 870	4.5
Arm :	3.0m	6.0 m	kg							*2 860	*2 860			*2 810	*2 810	6.0
Shoe :	500mm	4.5 m	kg							*2 780	*2 780			*2 640	2320	6.9
CWT :	2 450kg	3.0 m	kg					*3 440	*3 440	*3 140	2870			*2 630	2050	7.4
		1.5 m	kg			*7 320	*7 320	*4 620	4200	*3 680	2760	*3 110	1980	*2 760	1940	7.6
		0.0 m	kg			*6 510	*6 510	*5 620	3990	*4 190	2660			*3 040	1970	7.4
		-1.5 m	kg	*3 990	*3 990	*8 760	7210	*6 110	3890	*4 460	2610			*3 590	2140	6.9
		-3.0 m	kg	*7 370	*7 370	*9 080	7260	*5 950	3890	*4 160	2630			*4 100	2610	6.0
		-4.5 m	kg			*7 210	*7 210							*4 480	4050	4.5
Boom :	4.6m 2-piece	7.5 m	kg											*5 580	*5 580	2.9
Arm :	2.1m	6.0 m	kg			*5 070	*5 070	*4 800	4650					*3 980	3870	5.0
Shoe :	500mm	4.5 m	kg			*5 470	*5 470	*4 950	4600	*4 100	2910			*3 580	2850	6.1
CWT :	2 450kg	3.0 m	kg					*5 740	4400	*4 700	2860			*3 510	2450	6.6
		1.5 m	kg					*6 600	4160	*4 980	2770			*3 650	2310	6.8
		0.0 m	kg					*6 940	4020	*5 060	2710			*4 050	2360	6.6
		-1.5 m	kg			*9 290	7370	*6 480	3980	*4 440	2700			*4 300	2660	6.1
Boom :	4.6m 2-piece	7.5 m	kg			*5 180	*5 180							*4 160	*4 160	3.8
Arm :	2.5m	6.0 m	kg			*4 390	*4 390	*4 320	*4 320					*3 210	*3 210	5.5
Shoe :	500mm	4.5 m	kg			*4 120	*4 120	*4 560	*4 560	*4 230	2950			*2 930	2570	6.5
CWT :	2 450kg	3.0 m	kg					*5 390	4440	*4 480	2880			*2 870	2240	7.0
		1.5 m	kg					*6 360	4190	*4 850	2780			*2 970	2120	7.2
		0.0 m	kg					*6 880	4010	*5 040	2690			*3 250	2160	7.0
		-1.5 m	kg			*9 130	7300	*6 650	3940	*4 740	2660			*3 820	2390	6.5
		-3.0 m	kg					*5 410	3980							5.5
Boom :	4.6m 2-piece	7.5 m	kg			*41 20	*4 120	*3 610	*3 610					*3 250	*3 250	4.6
Arm :	3.0m	6.0 m	kg					*3 750	*3 750	*3 160	2970			*2 660	*2 660	6.2
Shoe :	500mm	4.5 m	kg			*3 000	*3 000	*3 780	*3 780	*3 850	2980			*2 450	2260	7.1
CWT :	2 450kg	3.0 m	kg					*4 890	4490	*4 170	2890	*2 550	2010	*2 400	2000	7.5
		1.5 m	kg					*5 980	4210	*4 620	2770	*3 330	1980	*2 470	1900	7.7
		0.0 m	kg					*6 710	3990	*4 940	2660	*2 880	1940	*2 660	1930	7.5
		-1.5 m	kg	*3 630	*3 630	*8 260	7200	*6 740	3880	*4 870	2600			*3 070	2100	7.1
		-3.0 m	kg			*8 660	7260	*5 900	3890	*3 900	2630			*3 580	2540	6.2

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 EC140EL (without dozer blade)

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	1.5 m		3.0 m		4.5 m		6.0 m		7.5 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 :	4.6m	6.0 m kg					*3 320	*3 320					*3 500	*3 500	4.9
Arm :	2.1m	4.5 m kg					*3 470	*3 470					*3 570	2610	6.0
Shoe :	600mm	3.0 m kg			*6 230	*6 230	*4 330	3910	*3 750	2550			3400	2230	6.5
CWT :	2 450kg	1.5 m kg					*5 390	3700	3800	2470			3220	2100	6.7
		0.0 m kg			*5 400	*5 400	5730	3560	3730	2410			3300	2140	6.5
		-1.5 m kg	*5 010	*5 010	*9 440	6460	5690	3520					3740	2410	6.0
		-3.0 m kg			*8 220	6580	*5 470	3590					*4 820	3200	4.9
Boom :	4.6m	6.0 m kg					*2 840	*2 840					*3 210	3100	5.4
Arm :	2.5m	4.5 m kg					*3 080	*3 080	*3 190	2630			*3 170	2350	6.4
Shoe :	600mm	3.0 m kg			*5 330	*5 330	*3 950	3950	*3 490	2560			3110	2040	6.9
CWT :	2 450kg	1.5 m kg					*5 070	3720	3810	2470			2960	1930	7.1
		0.0 m kg			*5 970	*5 970	5730	3550	3720	2390			3020	1960	6.9
		-1.5 m kg	*4 550	*4 550	*9 610	6390	5650	3490	3690	2360			3360	2170	6.4
		-3.0 m kg	*8 940	*8 940	*8 690	6480	5700	3520					4320	2750	5.4
Boom :	4.6m	7.5 m kg											*2 870	*2 870	4.5
Arm :	3.0m	6.0 m kg							*2 860	2650			*2 810	2620	6.0
Shoe :	600mm	4.5 m kg							*2 780	2650			*2 640	2070	6.9
CWT :	2 450kg	3.0 m kg					*3 440	*3 440	*3 140	2570			*2 630	1820	7.4
		1.5 m kg			*7 320	6830	*4 620	3730	*3 680	2460	2700	1750	2660	1720	7.6
		0.0 m kg			*6 510	6400	*5 620	3530	3690	2360			2700	1740	7.4
		-1.5 m kg	*3 990	*3 990	*8 760	6290	5600	3430	3630	2310			2960	1900	6.9
		-3.0 m kg	*7 370	*7 370	*9 080	6340	5600	3430	3660	2330			3620	2310	6.0
		-4.5 m kg			*7 210	6540							*4 480	3590	4.5
Boom :	4.6m 2-piece	7.5 m kg											*5 580	*5 580	2.9
Arm :	2.1m	6.0 m kg			*5 070	*5 070	*4 800	4170					*3 980	3470	5.0
Shoe :	600mm	4.5 m kg			*5 470	*5 470	*4 950	4120	3980	2600			*3 580	2540	6.1
CWT :	2 450kg	3.0 m kg					*5 740	3930	3930	2560			3350	2180	6.6
		1.5 m kg					5930	3700	3830	2470			3170	2050	6.8
		0.0 m kg					5760	3550	3750	2400			3260	2100	6.6
		-1.5 m kg			*9 290	6440	5720	3520	3750	2400			3680	2360	6.1
Boom :	4.6m 2-piece	7.5 m kg			*5 180	*5 180							*4 160	*4 160	3.8
Arm :	2.5m	6.0 m kg			*4 390	*4 390	*4 320	4250					*3 210	2990	5.5
Shoe :	600mm	4.5 m kg			*4 120	*4 120	*4 560	4170	4020	2640			*2 930	2290	6.5
CWT :	2 450kg	3.0 m kg					*5 390	3970	3940	2570			*2 870	1990	7.0
		1.5 m kg					5960	3720	3830	2470			2910	1880	7.2
		0.0 m kg					5760	3550	3740	2380			2980	1920	7.0
		-1.5 m kg			*9 130	6380	5680	3480	3700	2350			3310	2120	6.5
		-3.0 m kg					*5 410	3520							5.5
Boom :	4.6m 2-piece	7.5 m kg			*4 120	*4 120	*3 610	*3 610					*3 250	*3 250	4.6
Arm :	3.0m	6.0 m kg					*3 750	*3 750	*3 160	2660			*2 660	2530	6.2
Shoe :	600mm	4.5 m kg			*3 000	*3 000	*3 780	*3 780	*3 850	2670			*2 450	2010	7.1
CWT :	2 450kg	3.0 m kg					*4 890	4020	3960	2580	*2 550	1790	*2 400	1770	7.5
		1.5 m kg					*5 980	3740	3830	2460	2720	1750	*2 470	1680	7.7
		0.0 m kg					5750	3530	3710	2350	2680	1710	*2 660	1700	7.5
		-1.5 m kg	*3 630	*3 630	*8 260	6270	5630	3420	3650	2300			2910	1850	7.1
		-3.0 m kg			*8 660	6330	5630	3430	3680	2330			3550	2250	6.2

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 EC140ELM (without dozer blade)

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	1.5 m		3.0 m		4.5 m		6.0 m		7.5 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 :	4.6m	6.0 m kg					*3 280	*3 280					*3 500	*3 500	5.1
Arm :	2.1m	4.5 m kg					*3 550	*3 550	*3 560	2840			*3 580	2780	6.1
Shoe :	700mm	3.0 m kg			*6 660	*6 660	*4 470	4230	*3 800	2780			3630	2420	6.6
CWT :	2 450kg	1.5 m kg					*5 510	4020	4100	2700			3470	2300	6.7
		0 m kg			*5 920	*5 920	*6 150	3890	4030	2640			3610	2380	6.5
		-1.5 m kg	*5 680	*5 680	*9 340	7080	6130	3870					4150	2710	5.9
		-3.0 m kg			*7 960	7210	*5 240	3960					*4 870	3720	4.7
Boom :	4.6m	6.0 m kg					*2 820	*2 820					*3 220	*3 220	5.6
Arm :	2.5m	4.5 m kg					*3 160	*3 160	*3 210	2860			*3 160	2520	6.5
Shoe :	700mm	3.0 m kg			*5 740	*5 740	*4 090	*4 090	*3 540	2790			*3 180	2220	7.0
CWT :	2 450kg	1.5 m kg					*5 210	4030	*4 040	2700			3200	2120	7.1
		0 m kg			*6 280	*6 280	*5 990	3880	4010	2620			3300	2180	6.9
		-1.5 m kg	*5 050	*5 050	*9 550	7010	6090	3830	3990	2600			3720	2440	6.3
		-3.0 m kg	*9 660	*9 660	*8 480	7110	*5 630	3880					*4 550	3160	5.3
Boom :	4.6m	7.5 m kg											*2 860	*2 860	4.7
Arm :	3.0m	6.0 m kg							*2 800	*2 800			*2 780	2750	6.2
Shoe :	700mm	4.5 m kg							*2 810	*2 810			*2 630	2220	7.0
CWT :	2 450kg	3.0 m kg			*4 600	*4 600	*3 580	*3 580	*3 200	2790			*2 640	1980	7.5
		1.5 m kg			*7 660	7360	*4 770	4050	*3 750	2680	2930	1930	*2 780	1900	7.6
		0 m kg			*6 630	*6 630	*5 710	3850	3980	2590			2960	1940	7.4
		-1.5 m kg	*4 370	*4 370	*9 250	6900	6030	3770	3930	2540			3270	2130	6.9
		-3.0 m kg	*7 910	*7 910	*8 930	6970	*5 870	3790					4070	2640	5.9
		-4.5 m kg			*6 780	*6 780									4.2
Boom :	4.6m 2-piece	7.5 m kg			*5 890	*5 890							*5 170	*5 170	3.3
Arm :	2.1m	6.0 m kg			*5 090	*5 090	*4 760	4530					*3 900	3570	5.2
Shoe :	700mm	4.5 m kg			*5 740	*5 740	*5 020	4450	4280	2840			*3 560	2710	6.2
CWT :	2 450kg	3.0 m kg					*5 860	4240	4210	2790			*3 510	2360	6.7
		1.5 m kg					6340	4020	4120	2700			3430	2260	6.8
		0 m kg					6190	3890	4050	2630			3560	2330	6.6
		-1.5 m kg			*9 070	7060	6160	3860					4080	2660	6.0
Boom :	4.6m 2-piece	7.5 m kg			*4 960	*4 960							*3 950	*3 950	4.1
Arm :	2.5m	6.0 m kg			*4 290	*4 290	*4 310	*43 10					*3 160	3110	5.7
Shoe :	700mm	4.5 m kg			*4 220	*4 220	*4 640	4500	*4 240	2880			*2 910	2450	6.6
CWT :	5 000kg	3.0 m kg					*5 520	4280	4230	2800			*2 880	2170	7.1
		1.5 m kg					6370	4040	4120	2700			*2 990	2070	7.2
		0 m kg			*5 730	*5 730	6180	3880	4030	2620			3250	2130	7.0
		-1.5 m kg			*9 640	6990	6120	3820	4010	2590			3660	2380	6.4
		-3.0 m kg													5.5
Boom :	4.6m 2-piece	7.5 m kg					*3 860	*3 860					*3 120	*3 120	4.9
Arm :	3.0m	6.0 m kg					*3 750	*3 750	*3 380	2910			*2 620	*2 620	6.3
Shoe :	700mm	4.5 m kg			*3 010	*3 010	*3 820	*3 820	*3 870	2900			*2 430	2160	7.1
CWT :	2 450kg	3.0 m kg					*5 050	4330	*4 230	2800	*2 730	1970	*2 400	1940	7.6
		1.5 m kg					*6 100	4050	4110	2680	2940	1930	*2 480	1860	7.7
		0 m kg			*6 050	*6 050	6160	3850	4000	2580			*2 700	1900	7.5
		-1.5 m kg	*4 020	*4 020	*8 770	6880	6060	3760	3950	2540			*3 140	2090	7.0
		-3.0 m kg			*8 350	6960	*5 710	3780							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.

Equipment

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage V requirements

Air filter with indicator

Air intake heater

Cyclone pre-cleaner

Electric engine shut-off

Fuel filter and water separator

Fuel filler pump: 30 l/min

Alternator, 80 A

Standard cooling system by fan clutch(40 deg. C)

Electric / Electronic control system

Contronics

Advanced mode control system

Self-diagnostic system

Machine status indication

GSM/GPS Caretrack and 3yr-Caretrack subscription

Engine speed sensing power control

Automatic idling system

One-touch power boost

Safety stop/start function

Adjustable LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity halogen or LED lights:

Halogen

Frame-mounted: 2, Boom-mounted: 1

LED

Frame-mounted: 2, Boom-mounted: 1

Batteries, 2 x 12 V / 100 Ah

Start motor, 24 V / 5.5 kW

Frame

Access way with handrail

Tool storage area

Punched metal anti-slip plates

Under cover (heavy duty)

2 450kg counterweight for Long Crawler (L), Long Crawler Marsh (LM)

Undercarriage

Under cover (heavy duty)

Hydraulic track adjusters

Greased and sealed track link

Track Guard

Hydraulic system

Boom hose rupture valve with overload warning device

Arm hose rupture valve

Automatic sensing hydraulic system

Summation system

Boom priority

Arm priority

Swing priority

ECO mode fuel saving technology

Boom, arm and bucket regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Multi-stage filtering system

Boom cylinders (x2)

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, longlife oil 46

STANDARD EQUIPMENT

Cab and interior

ROPS (ISO12117-2) certified cab with opening top hatch

Silicon oil and rubber mounts with spring

Control lock out lever

Travel pedals and hand levers

Adjustable operator seat with heater and joystick control console

Control joysticks with 4 switches each

Heater & air-conditioner, automatic

Flexible antenna

Radio with MP3 and USB Jack with bluetooth

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

Rear view camera

Master key

Digging Equipment

4.6 m mono boom

2.5 m arm

Linkage

Manual centralized lubrication

OPTIONAL EQUIPMENT

Engine

Block heater: 120 V, 240 V

Air cleaner only

Diesel coolant heater, 5 kW

Water separator with heater

Auto engine shutdown

Tropical cooling system (50 deg. C)

Electric

Extra work lights (Halogen or LED):

Cab-mounted 3

Counterweight-mounted 1

Travel alarm

Anti-theft system

Rotating warning beacon

Undercarriage

Dozer blade

Full track guard

EC140EL: 500/600/600 HD/700/750 mm shoe with triple grousers and 500 mm with rubber grousers

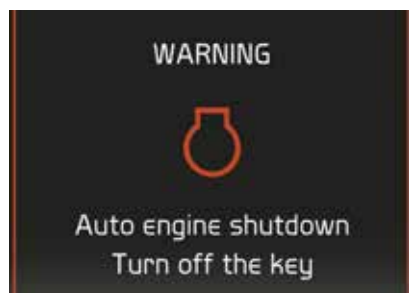
EC140ELM: 600/700/800/900 mm shoe with triple grousers

OPTIONAL EQUIPMENT
Hydraulic system
Boom float function with HRV
Boom float function without HRV
Hydraulic piping:
Work tool management system (up to 20 programmable memories)
Breaker & shear, 1 and 2 pump flow
Slope & rotator (40lpm or 60lpm)
Extra for slope & rotator
Grapple
Oil leak (drain) line
Quick coupler
Breaker & shear pressure pre-setting
Volvo hydraulic quick coupler S6, S6 without hook
Volvo hydraulic quick coupler VQC-HU, DR14 / RQC-HD, Steelwrist S60
Hydraulic oil, biodegradable 46
Hydraulic oil, ISO VG 32,42, 68
Hydraulic oil, longlife oil 32, 68

OPTIONAL EQUIPMENT
Cab and interior
Fabric seat without heater
Fabric seat with heater and air suspension
Control joysticks with semi-long
Control joysticks with 3 switch & 1 proportional
Cab-mounted falling object guard (FOG)
Cab-mounted falling object protective structure (FOPS)
Pilot control pattern change
Side view camera
Smoker kit (ashtray and lighter)
Safety net for front window
Sunlight protection, roof (steel)
Lower wiper with intermittent control
Anti-vandalism kit
Specific key
Digging Equipment
4.6 m 2-piece boom
2.1 m, 3.0 m arm
Linkage with lifting eye
Service
Tool kit, daily maintenance
Tool kit, full scale

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Auto engine shutdown



Two-piece boom



Diesel coolant heater



LED lights



Fuel fill pump



Dozer blade



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.

V O L V O