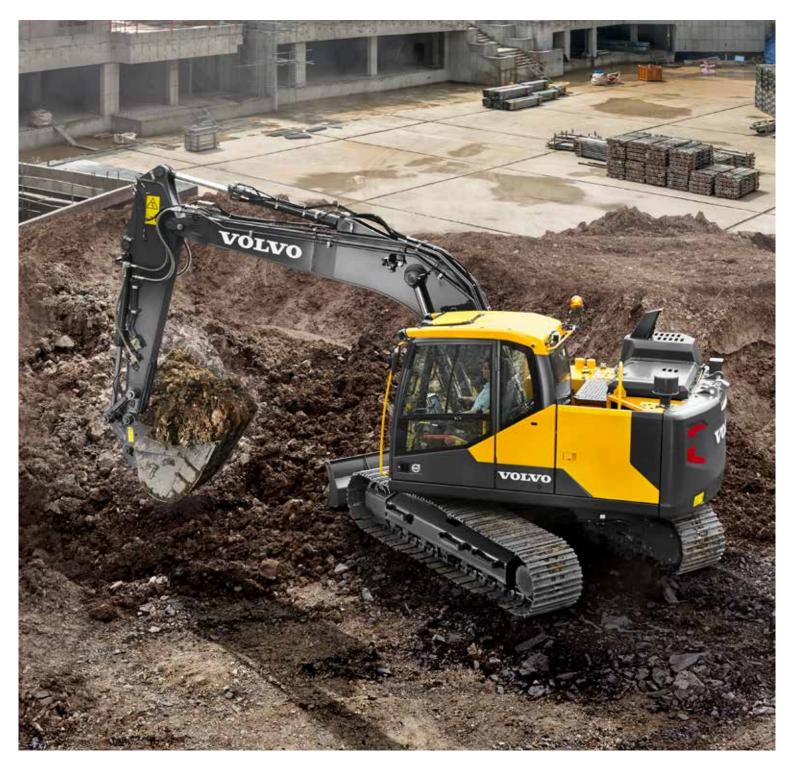


Volvo Construction Equipment Building Tomorrow



Volvo Excavators 13.2-17.0 t 122 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



VOLVO



























Volvo Penta

Volvo Financial Services

З

Mack Trucks

UD Trucks

Volvo Buses

Volvo Construction Equipment

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.



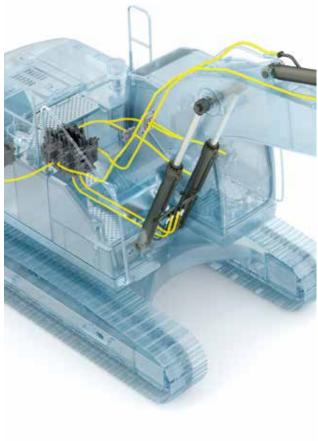
Boom float function

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.



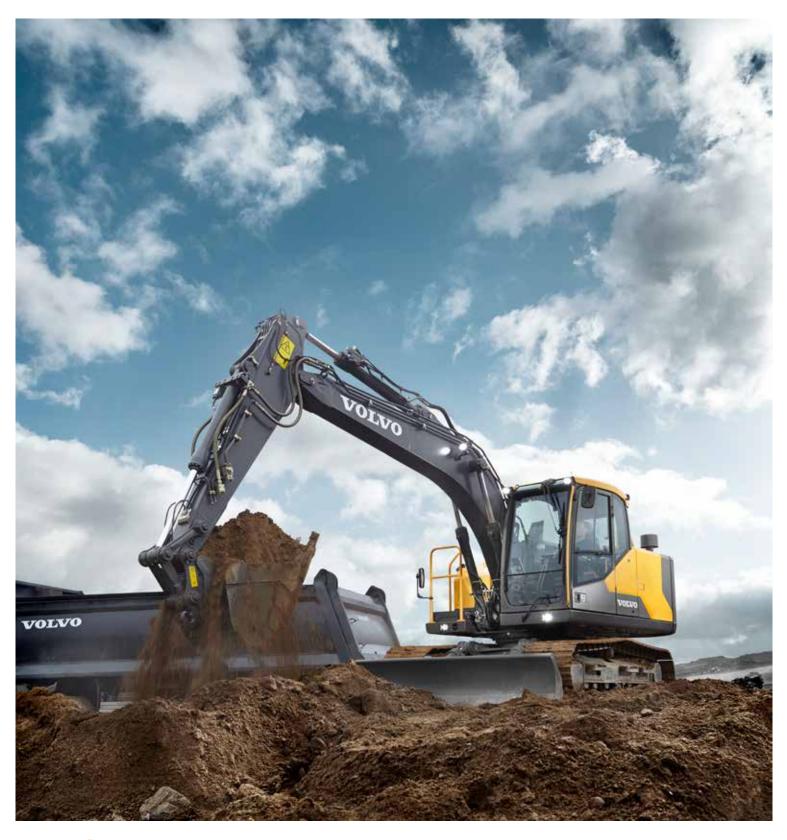
Increased power

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.



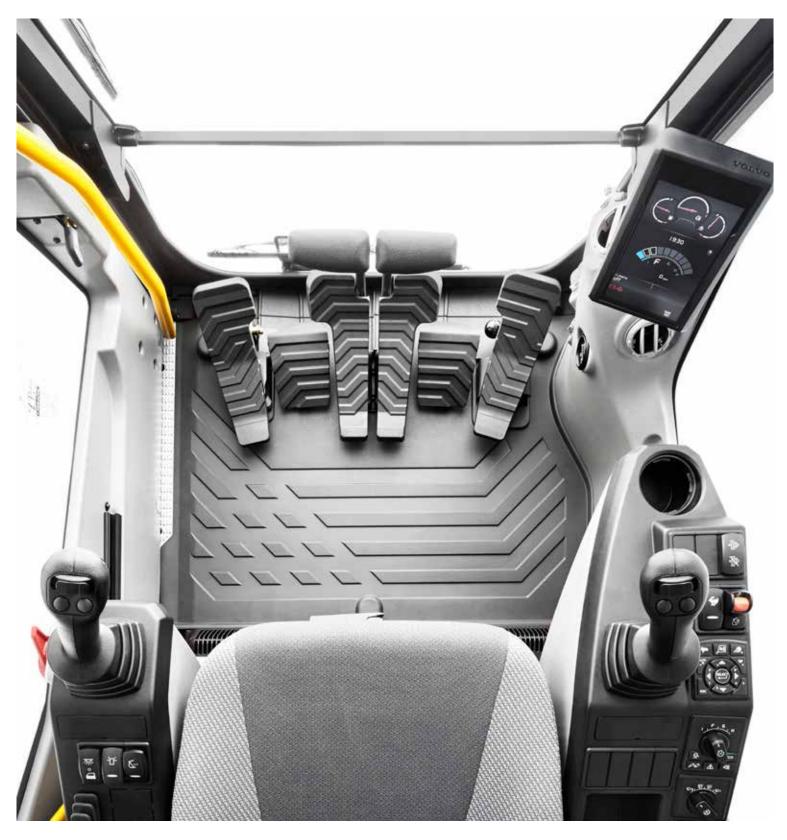
Main Control Valve and Software

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 IV 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.



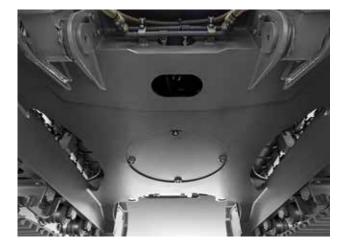
Boom and Arm

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-theart 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

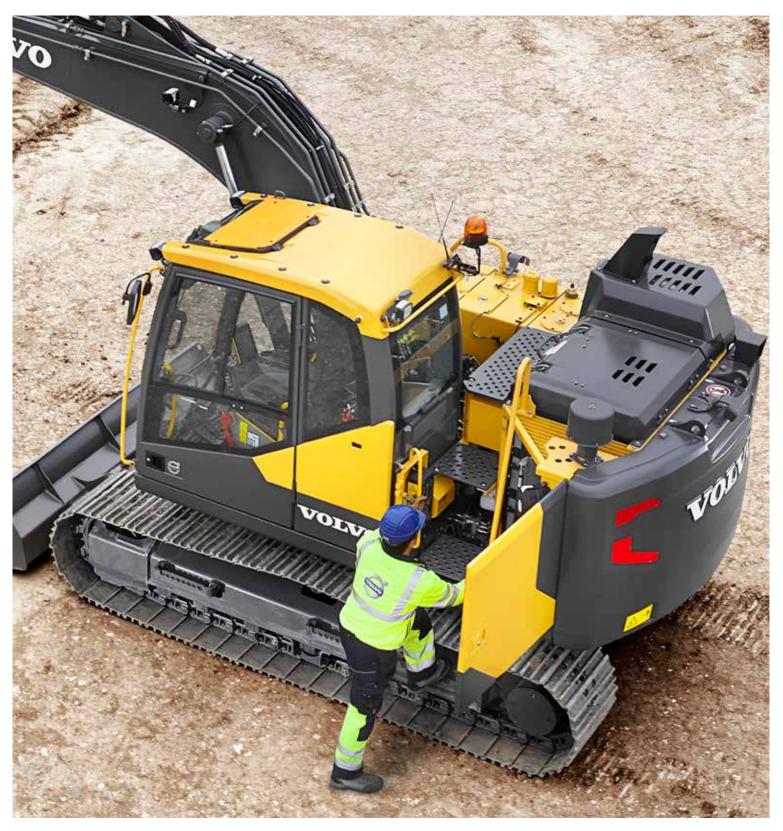
Real-time service alerts are displayed on the colour monitor to enable diagnostic checks. Separate service intervals include – the engine oil filter, fuel filter, water separator, hydraulic oil and hydraulic oil filter. This ensures peace of mind and maximum uptime.



Anti-slip steel plates

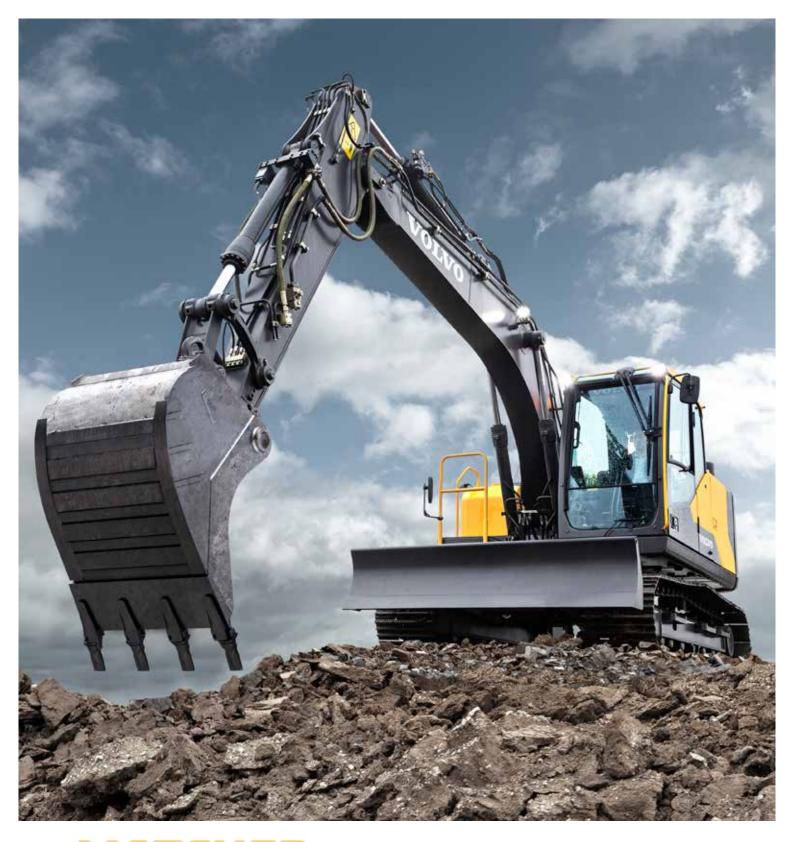
Well-positioned punched anti-slip plates provide superior grip and durability. The design facilitates easy cleaning while promoting safety.







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 inl all conditions from soft, medium and hard materials. Heavyduty 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 complies 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.

OLV

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

6

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

VOLVO

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.

TT:

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, emsissions 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 airto-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	1	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 corrosionfree 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

wax. siew speed	r/ min		
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	0	35						
		EC140ELM						
Max. drawbar pull	kN	140						
Max. drawbar pull Max. travel speed (low)	kN km/h	140 2.6						
Max. travel speed (low)	km/h	2.6						

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

pumps									
Maximum flow	l/min	2 x 124							
Pilot pump. Type: Gear pump									
Maximum flow	l/min	1 x 20							
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									
Slew: Fixed displacement axial pis mechanical brake	ston motor w	lith							
	ston motor w	ntn							
mechanical brake	ston motor w	2							
mechanical brake Hydraulic Cylinders	ø x mm								
mechanical brake Hydraulic Cylinders Mono boom		2							
mechanical brake Hydraulic Cylinders Mono boom Bore x Stroke		2							
mechanical brake Hydraulic Cylinders Mono boom Bore x Stroke 2 piece boom	ø x mm	2 105 x 980 1							
mechanical brake Hydraulic Cylinders Mono boom Bore x Stroke 2 piece boom Bore x Stroke	ø x mm	2 105 x 980 1							
mechanical brake Hydraulic Cylinders Mono boom Bore x Stroke 2 piece boom Bore x Stroke Arm	ø x mm ø x mm	2 105 x 980 1 160 x 765 1							
mechanical brake Hydraulic Cylinders Mono boom Bore x Stroke 2 piece boom Bore x Stroke Arm Bore x Stroke	ø x mm ø x mm	2 105 x 980 1 160 x 765 1							
mechanical brake Hydraulic Cylinders Mono boom Bore x Stroke 2 piece boom Bore x Stroke Arm Bore x Stroke Bucket	ø x mm ø x mm ø x mm	2 105 x 980 1 160 x 765 1 120 x 1 045 1							

Service Refill

Fuel tank	1	250
DEF/AdBlue [®] tank	I	20
Hydraulic system, total	1	230
Hydraulic tank	I	85
Engine oil	1	16
Engine coolant	I	28
Slew reduction unit	1	3.9
Travel reduction unit	I	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:

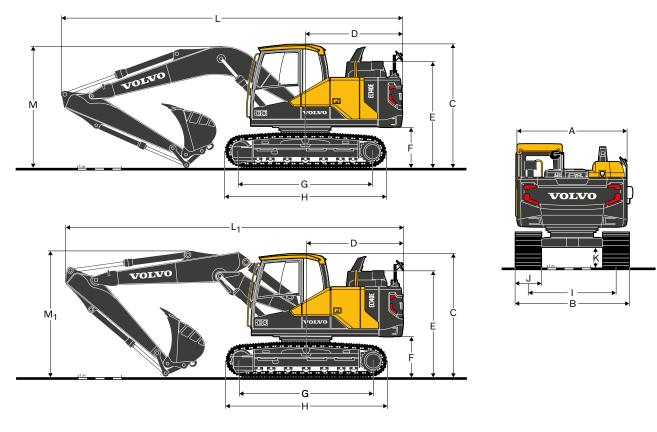
The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

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								
L _{pA} (tropical) dB								
External sound level according to ISO 6395, EU Noise Directive 2000/14/EC								
L _{wA} (standard)	dB	100						
L _{wA} (tropical)	dB	101						

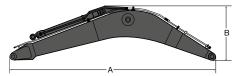
Specifications

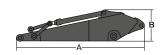


DIN	DIMENSIONS											
Des	cription	Unit		EC140EL		EC140ELM						
Boo	m	m	4.6 mc	no or 4.6	2-piece	4.6 m	4.6 mono or 4.6 2-piece					
Arm		m	2.1	2.5	3.0	2.1	2.5	3.0				
А	Overall width of upper structure	mm	2 490	2 490	2 490	2 490	2 490	2 490				
В	Overall width	mm	2 590	2 590	2 590	2 690	2 690	2 690				
С	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				
Е	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 0 4 0	3 040	3 040	3 000	3 000	3 000				
Н	Track length	mm	3 760	3 760	3 760	3 790	3 790	3 790				
I –	Track gauge	mm	1990	1990	1990	1990	1990	1990				
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				
М	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 Boom 4.6 Arm 4.6 2.5 3.0 2.1 m m Length (A) 4 770 4 765 Length (A) 2 800 3 200 2 700 mm mm Height (B) 1 370 1225 Height (B) 710 710 780 mm mm Width 545 545 Width 300 300 300 mm mm Weight 1 100 1900 Weight 555 625 685 kg kg

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

* Includes cylinder, linkage and pin

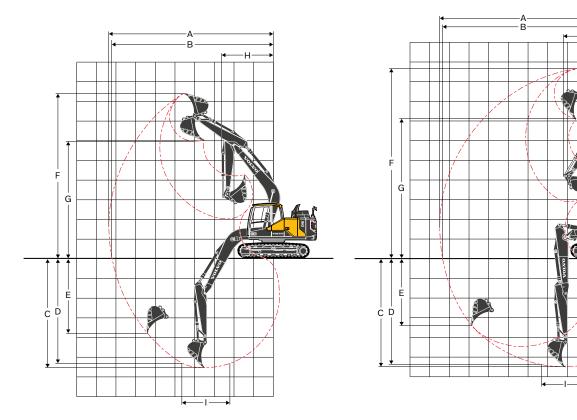


DIMENSIONS					
Description		Unit			
Front dozer blade					
Height (A)	mm	580			
Width	mm	2 590			
Weight	kg	458			
Lift height (B)	mm	480			
Digging depth (C)	mm	600			

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		
				EC14	IOEL				
			, 2.5m arm, 4 2 450kg coun		4.6m 2-piece boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight				
	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		
Triple grouser	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 wit	h dozer blade				
			, 2.5m arm, 4 2 450kg coun		•	6m 2-piece boom, 2.5m arm, 403kg / 540l bucket, 2 450kg counterweight			
	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		
Triple grouser	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		
				EC14	DELM				
		4.6m boom, 2.5m arm, 403kg / 540I bucket, 2 450kg counterweight4.6m 2-piece boom, 2.5m arm, 540I bucket, 2 450kg counter							
	600	15 780	39.2	2 590	16 200	40.2	2 590		
T .(700	15 990	34.3	2 690	16 410	35.3	2 690		
Triple grouser	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



wo	WORKING RANGES															
Des	cription	1		Unit		EC140EL							EC14	OELM		
Boo	Boom			m	4	.6 mon	0	4.	6 2-pie	ce	4.6 mono 4.6 2-piece				ce	
Arm	1			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. dig	gging rea	ch	mm	7 980	8 360	8 850	8 0 8 0	8 4 6 0	8 960	7 980	8 360	8 850	8 0 8 0	8 4 6 0	8 960
в	Max. digg ground	ging reach	on	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
С	Max. dig	gging de	oth	mm	5 160	5 5 6 0	6 0 6 0	5 0 8 0	5 4 8 0	5980	4 960	5 360	5860	4 890	5 2 8 0	5 790
	Max. dig 2.44m l	gging de _l evel)	oth (I =	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
H	Max. ve digging	rtical wa depth	II	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. cu	tting heig	ght	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. du	imping h	eight	mm	5 720	5 950	6 2 9 0	6 730	7 100	7 570	5 910	6 150	6 4 9 0	6 930	7 2 9 0	7 770
Н	Min. fro	nt swing	radius	mm	2 570	2 630	2 740	1740	1990	2 410	2 570	2 630	2 740	1740	1990	2 410
Digg	ging for	ces with	direct f	it buck	et											
Buc	cket radi	us		mm	1 2 7 4	1 274	1 274	1 274	1 274	1 274	1 2 7 4	1274	1 2 7 4	1 274	1 274	1 274
		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
Bre	akout	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
	cket	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
		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
Tear	rout	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
	per arm	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
Rot	ation an	gle, buck	et	o	175	175	175	175	175	175	175	175	175	175	175	175

BUCKET	SELECT		-		<u>г</u>										
				Cutting		_	EC140EL								
_	_		Capacity	width	Weight	Teeth		.6m boor							
В	ucket typ	e					6	500mm s	hoe, 2 45	Okg cour	nterweigh	nt			
			L	mm	kg	EA	2.1m arm	2.5m arm	3.0m arm	2.1m arm	2.5m arm	3.0m arm			
			660	1050	443	4	С	С	С	С	С	С			
			770	1200	504	5	С	С	С	С	С	С			
	Without quick	General	250	450	293	3	С	С	С	С	С	С			
	coupler	purpose	330	600	324	3	С	С	С	С	С	С			
	ocupie.		420	750	355	3	С	С	С	С	С	С			
Direct fit			540	900	403	4	С	С	С	С	С	С			
ouckets			660	1050	443	4	С	С	С	С	С	С			
			770	1200	504	5	С	С	В	С	arm arm C C <td>В</td>	В			
	U type quick coupler	General	250	450	293	3	С	С	С	С		С			
		purpose	330	600	324	3	С	С	С	С	С	С			
			420	750	355	3	С	С	С	С	С	С			
			540	900	403	4	С	С	С	С	С	nt 3.0m arm (C) (C) (C) (C) (C) (C) (C) (C)			
			660	1050	446	4	С	С	С	С	С	С			
Quick			770	1200	508	5	С	С	С	С	С	В			
coupler	S-quick coupler	General purpose	1 330	600	327	3	С	С	С	С	С	С			
ouckets	coupier	purpose	420	750	357	3	С	С	С	С	С	С			
			540	900	406	4	С	С	С	С	С	С			
				0					EC14	DELM					
			Capacity	Cutting width	Weight	Teeth	4.6m boom 4.6m 2-piece boom								
В	ucket typ	e					700mm shoe, 2 450kg counterweight								
			L	mm	kg	EA	2.1m arm	2.5m arm	3.0m arm	2.1m arm					
			660	1 0 5 0	443	4	С	С	С	С		l			
			770	1200	504	5	С	С	С	С	С	t 3.0m arm C C C C C C C C C C C C C C C C C C C			
	Without	General	250	450	293	3	С	С	С	С	С	С			
	quick coupler	purpose	330	600	324	3	С	С	С	С	С	3.0m arm C C C C C C C C C C C C C C C C C C C			
	coupier		100								0	C			
			420	750	355	3	С	С	С	С	C	C			
Direct fit			420 540	750 900	355 403	3 4		C C	C C	C C		-			
							С				С	С			
			540	900	403	4	C C	С	С	C C	C C	C C			
	U type	General	540 660 770	900 1 050 1 200	403 443 504	4 4 5	C C C C	C C C	C C C	C C C	C C C	C C C			
	quick	General purpose	540 660 770 250	900 1 050	403 443	4	C C C C C	C C C C	C C C C	C C C C	C C C C	C C C C			
		General purpose	540 660 770 250 330	900 1050 1200 450 600	403 443 504 293 324	4 4 5 3	C C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C			
	quick		540 660 770 250 330 420	900 1050 1200 450 600 750	403 443 504 293 324 355	4 4 5 3 3	C C C C C C C	C C C C C C	C C C C C C	C C C C C C	C C C C C C	C C C C C C			
	quick		540 660 770 250 330 420 540	900 1050 1200 450 600 750 900	403 443 504 293 324 355 403	4 4 5 3 3 3	C C C C C C C C C	C C C C C C C	C C C C C C C	C C C C C C C	C C C C C C C				
buckets	quick coupler	purpose	540 660 770 250 330 420 540 660 770	900 1050 1200 450 600 750 900 1050	403 443 504 293 324 355 403 446	4 4 5 3 3 3 3 4 4	C C C C C C C C C C	C C C C C C C C C	C C C C C C C C C	C C C C C C C C C	C C C C C C C C C				
Quick	quick coupler S-quick	purpose General	540 660 770 250 330 420 540 660 770 330	900 1050 1200 450 600 750 900 1050 1200	403 443 504 293 324 355 403 446 508	4 5 3 3 3 4 4 5	C C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C C			
Direct fit buckets Quick coupler buckets	quick coupler S-quick	purpose	540 660 770 250 330 420 540 660 770 330	900 1050 1200 450 600 750 900 1050 1200 600	403 443 504 293 324 355 403 446 508 327	4 5 3 3 3 4 4 5 3	C C C C C C C C C C C C C C C	C C C C C C C C C C C	C C C C C C C C C C C C C	C C C C C C C C C C C C	C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C			
Quick coupler	quick coupler S-quick	purpose General	540 660 770 250 330 420 540 660 770 330	900 1050 1200 450 600 750 900 1050 1200	403 443 504 293 324 355 403 446 508	4 5 3 3 3 4 4 5	C C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C	C C C C C C C C C C C C C 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 materal density

A 1200~1300 kg/m3 Coal, Caliche, Shale B 1400~1600 kg/m3 Wet earth and clay, Limestone, Sandstone C 1700~1800 kg/m3 Granite, Wet sand, Well blasted rock

D 1900 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 h			im L.) m		5 m) m		im L		Max. reach	1
		related ground l		Along UC	Across UC	m										
Boom :	4.6m	6.0 m	kg					*3 320	*3 320					*3 500	*3 500	4.
Arm :	2.1m	4.5 m	kg					*3 470	*3 470					*3 570	2930	6.
Shoe :	600mm	3.0 m	kg			*6 230	*6 230	*4 330	*4 330	*3 750	2870			*3 710	2520	6.
CWT:	2 450kg	1.5 m	kg					*5 390	4180	*4 170	2790			*3 910	2370	6.
		0.0 m	kg			*5 400	*5 400	*6 100	4040	*4 520	2730			*4 160	2420	6.
		-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.
CWT:	2 450kg	1.5 m	kg					*5 070	4200	*3 970	2790			*3 340	2180	7.
		0.0 m	kg			*5 970	*5 970	*5 920	4040	*4 400	2710			*3 740	2220	6.9
		-1.5 m	kq	*4 550	*4 550	*9 610	7360	*6 220	3970	*4 520	2680			*4 150	2460	6.4
		-3.0 m				*8 690		*5 770	4010					*4 510		5.4
Boom :	4.6m	7.5 m	kg	0010	0010	0.000	1100	0110	1010						*2 870	4.
Arm :	3.0m	6.0 m	kg							*2 860	*2 860				*2 810	6.0
Shoe :	600mm	4.5 m	kg							*2 780				*2 640		6.9
CWT :	2 450kg	3.0 m						*2 440	*3 440					*2 630		7.4
CWI.	2 450kg	1.5 m	kg			*7 200	*7 200					*0 110	1000	*2 760		
			kg					*4 620		*3 680		*3 110	1990			7.6
		0.0 m	kg					*5 620		*4 190	2680			*3 040		7.4
		-1.5 m	kg	*3 990	*3 990	*8 760	7250	*6 110	3910	*4 460	2620			*3 590		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.
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.
CWT:	2 450kg	3.0 m	kg					*5 740	4420	*4 700	2880			*3 510	2460	6.0
		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	6.0
		-1.5 m	kg			*9 290	7420	*6 480	4000	*4 440	2720			*4 300	2670	6.
Boom :	4.6m 2-piece	7.5 m	kg				*5 180								*4 160	3.8
Arm :	2.5m	6.0 m	kg					*4 320	*4 320						*3 210	5.
Shoe :	600mm	4.5 m	kg						*4 560	*4 230	2970			*2 930		6.
CWT:	2 450kg	3.0 m	kg			1 120	1120	*5 390		*4 480	2900			*2 870		7.0
01111	2 100kg	1.5 m	kg					*6 360	-	*4 850	2790			*2 970		7.2
									4030							
		0.0 m	kg								2710			*3 250		7.0
		-1.5 m	kg			*9 130	7350	*6 650		*4 740	2680			*3 820	2410	6.5
		-3.0 m	kg					*5 410								5.5
Boom :	4.6m 2-piece	7.5 m	kg			*4 120	*4 120		*3 610						*3 250	4.6
Arm :	3.0m	6.0 m	kg						*3 750		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.
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.
		0.0 m	kg					*6 710	4010	*4 940	2680	*2 880	1950	*2 660	1940	7.

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

		Lifting h				3.0) m	4.	5 m	6.0) m		5 m	Max. reac		л
		related ground l		Along UC	Across UC	m										
		-1.5 m	kg	*3 630	*3 630	*8 260	7240	*6 740	3910	*4 870	2620			*3 070	2110	7
		-3.0 m	kg			*8 660	7300	*5 900	3910	*3 900	2650			*3 580	2560	6.
Boom :	4.6m	6.0 m	kg					*3 320	*3 320					*3 500	*3 500	4.
Arm :	2.1m	4.5 m	kg					*3 470	*3 470					*3 570	2920	6.
Shoe :	500mm	3.0 m	kg			*6 230	*6 230	*4 330	*4 330	*3 750	2860			*3 710	2500	6.
CWT:	2 450kg	1.5 m	kg					*5 390	4160	*4 170	2770			*3 910	2360	6.
		0.0 m	kg			*5 400	*5 400	*6 100	4020	*4 520	2710			*4 160	2410	6.
		-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.
		0.0 m	kg			*5 970	*5 970	*5 920	4010	*4 400	2690			*3 740	2210	6.9
		-1.5 m	kq	*4 550	*4 550	*9 610	7310	*6 220	3950	*4 520	2660			*4 150	2440	6.4
		-3.0 m			*8 940			*5 770						*4 510		5.4
Boom :	4.6m	7.5 m	kg		0010	0.000	1100	0110	0000						*2 870	4.
Arm :	3.0m	6.0 m	kg							*2 860	*2 860				*2 810	6.0
Shoe :	500mm	4.5 m	kg								*2 780			*2 640		6.9
CWT:	2 450kg	3.0 m	kg					*3 440	*3 440		2870			*2 630		7.4
0001.	2 400Ng	1.5 m	kg			*7 320	*7 320			*3 680		*3 110	10.80	*2 760		7.0
			-									3 110	1900			
		0.0 m	kg				*6 510			*4 190				*3 040		7.4
		-1.5 m			*3 990			*6 110		*4 460	2610			*3 590		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.
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.
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.
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
	Ū	1.5 m	kg					*6 360	4190	*4 850	2780			*2 970	2120	7.2
		0.0 m	kg					*6 880		*5 040				*3 250		7.0
		-1.5 m				*9 130	7200		3940					*3 820		6.5
			kg			.9 130	7300			~4 /40	2000			~3 820	2390	
		-3.0 m	kg						3980						10.050	5.5
Boom :	4.6m 2-piece	7.5 m	kg			*41 20	*4 120		*3 610						*3 250	4.6
Arm :	3.0m	6.0 m	kg						*3 750	*3 160	2970			*2 660	*2 660	6.2
Shoe :	500mm	4.5 m	kg			*3 000		*3 780	*3 780	*3 850	2980			*2 450	2260	7.
CWT:	2 450kg	3.0 m	kg					*4 890	4490	*4 170	2890	*2 550	2010	*2 400	2000	7.
		1.5 m	kg					*5 980	4210	*4 620	2770	*3 330	1980	*2 470	1900	7.
		0.0 m	kg					*6 710	3990	*4 940	2660	*2 880	1940	*2 660	1930	7.
		-1.5 m		*3 630	*3 630	*8 260	7200	*6 740		*4 870				*3 070		7.
		-3.0 m			2 000	*8 660		*5 900		*3 900				*3 580		6.2
		-0.0 m	kg			0 000	1200	5 500	0090	5 500	2030			0.000	2040	

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 h) m		5 m	6.0		7.5			Aax. reach	۱
		related ground l		Along UC	Across UC	m										
Boom :	4.6m	6.0 m	kg					*3 320	*3 320					*3 500	*3 500	4.
Arm :	2.1m	4.5 m	kg					*3 470	*3 470					*3 570	2610	6.
Shoe :	600mm	3.0 m	kg			*6 230	*6 230	*4 330	3910	*3 750	2550			3400	2230	6.
CWT :	2 450kg	1.5 m	kg					*5 390	3700	3800	2470			3220	2100	6.
		0.0 m	kg			*5 400	*5 400	5730	3560	3730	2410			3300	2140	6.
		-1.5 m	kg	*5 010	*5 010	*9 440	6460	5690	3520					3740	2410	6.
		-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.
Arm :	2.5m	4.5 m	kg					*3 080	*3 080	*3 190	2630			*3 170	2350	6.
Shoe :	600mm	3.0 m	kg			*5 330	*5 330	*3 950	3950	*3 490	2560			3110	2040	6.
CWT :	2 450kg	1.5 m	kg					*5 070	3720	3810	2470			2960	1930	7
		0.0 m	kg			*5 970	*5 970	5730	3550	3720	2390			3020	1960	6.
		-1.5 m	kg	*4 550	*4 550	*9 610	6390	5650	3490	3690	2360			3360	2170	6.
		-3.0 m	kg	*8 940	*8 940	*8 690	6480	5700	3520					4320	2750	5.
Boom :	4.6m	7.5 m	kg											*2 870	*2 870	4.
Arm :	3.0m	6.0 m	kg							*2 860	2650			*2 810	2620	6.
Shoe :	600mm	4.5 m	kg							*2 780	2650			*2 640	2070	6.
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.
		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.
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
CWT:	2 450kg	3.0 m	kg					*5 740	3930	3930	2560			3350	2180	6.
		1.5 m	kg					5930	3700	3830	2470			3170	2050	6.
		0.0 m	kg					5760	3550	3750	2400			3260	2100	6.
		-1.5 m	kg			*9 290	6440	5720	3520	3750	2400			3680	2360	6.
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.
Shoe :	600mm	4.5 m	kg			*4 120	*4 120	*4 560	4170	4020	2640			*2 930	2290	6.
CWT:	2 450kg	3.0 m	kg					*5 390	3970	3940	2570			*2 870	1990	7.
		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.
		-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		2660			*2 660		6.5
Shoe :	600mm	4.5 m	kg			*3 000		*3 780	*3 780	*3 850	2670			*2 450	2010	7.
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		2460			*2 470		7.
		0.0 m	kg					5750		3710		2680		*2 660		7.
		-1.5 m	-	*3 630	*3 630	*8 260	6270	5630	3420		2300			2910		7
		-3.0 m	kg			*8 660		5630						3550		6.

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

		Lifting h			i m) m		5 m) m		i m		/lax. reach	۱
		related ground l		Along UC	Across UC	m										
Boom :	4.6m	6.0 m	kg					*3 280	*3 280					*3 500	*3 500	5
Arm :	2.1m	4.5 m	kg					*3 550	*3 550	*3 560	2840			*3 580	2780	6
Shoe :	700mm	3.0 m	kg			*6 660	*6 660	*4 470	4230	*3 800	2780			3630	2420	6
CWT:	2 450kg	1.5 m	kg					*5 510	4020	4100	2700			3470	2300	6
		0 m	kg			*5 920	*5 920	*6 150	3890	4030	2640			3610	2380	6
		-1.5 m	kg	*5 680	*5 680	*9 340	7080	6130	3870					4150	2710	5.
		-3.0 m	kg			*7 960		*5 240	3960					*4 870	3720	4
Boom :	4.6m	6.0 m	kg					*2 820							*3 220	5.
Arm :	2.5m	4.5 m	kg						*3 160	*3 210	2860			*3 160		6.
Shoe :	700mm	3.0 m	kg			*5 740	*5 740				2790			*3 180		7.
CWT:	2 450kg	1.5 m	kg					*5 210		*4 040	2700			3200		7
		0 m	kg			*6 280	*6 280		3880		2620			3300		6.
		-1.5 m	-	*5 050	*5 050				3830		2600			3720		6.
										5550	2000					
		-3.0 m		*9 660	^9.660	^8 480	7110	*5 630	3880					*4 550		5.
Boom :	4.6m	7.5 m	kg							*0.000	+0.000				*2 860	4.
Arm :	3.0m	6.0 m	kg							*2 800				*2 780		6.
Shoe :	700mm	4.5 m	kg			*4.000	+4 000	+0 500	+0.500	*2 810				*2 630		7.
CWT :	2 450kg	3.0 m	kg							*3 200	2790		1000	*2 640		7.
		1.5 m	kg			*7 660		*4 770		*3 750	2680	2930	1930	*2 780		7.
		0 m	kg			*6 630	*6 630	*5 710	3850	3980	2590			2960	1940	7.
		-1.5 m	kg	*4 370	*4 370	*9 250	6900	6030	3770	3930	2540			3270	2130	6.
		-3.0 m	kg	*7 910	*7 910	*8 930	6970	*5 870	3790					4070	2640	5.
		-4.5 m	kg			*6 780	*6 780									4.
Boom :	4.6m 2-piece	7.5 m	kg			*5 890	*5 890							*5 170	*5 170	3.
Arm :	2.1m	6.0 m	kg			*5 090	*5 090	*4 760	4530					*3 900	3570	5.
Shoe :	700mm	4.5 m	kg			*5 740	*5 740	*5 020	4450	4280	2840			*3 560	2710	6.
CWT:	2 450kg	3.0 m	kg					*5 860	4240	4210	2790			*3 510	2360	6
		1.5 m	kg					6340	4020	4120	2700			3430	2260	6.
		0 m	kg					6190	3890	4050	2630			3560	2330	6.
		-1.5 m	kg			*9 070	7060	6160	3860		2000			4080		6.
Boom :	4.6m 2-piece	7.5 m	kg				*4 960	0100	3000						*3 950	4
Arm :	2.5m	6.0 m					*4 290	*/ 210	*12 10					*3 160		5.
Shoe :	700mm	4.5 m	kg kg				*4 220			*4 240	2880			*2 910		6.
CWT :	5 000kg	4.5 m				4 220	4 2 2 0	*5 520		4240	2800			*2 880		7
CWI:	5 000kg		kg													7.
		1.5 m	kg			45 39 9	45.500	6370		4120	2700			*2 990		
		0 m	kg				*5 730	6180	3880		2620			3250		7.
		-1.5 m	kg			*9 640	6990	6120	3820	4010	2590			3660	2380	6.
		-3.0 m	kg													5.
Boom :	4.6m 2-piece	7.5 m	kg					*3 860	*3 860					*3 120	*3 120	4.
Arm :	3.0m	6.0 m	kg					*3 750	*3 750	*3 380	2910			*2 620	*2 620	6.
Shoe :	700mm	4.5 m	kg			*3 010	*3 010	*3 820	*3 820	*3 870	2900			*2 430	2160	7
CWT:	2 450kg	3.0 m	kg					*5 050	4330	*4 230	2800	*2 730	1970	*2 400	1940	7.
		1.5 m	kg					*6 100	4050	4110	2680	2940	1930	*2 480	1860	7.
		0 m	kg			*6 050	*6 050	6160	3850	4000	2580			*2 700	1900	7.
		-1.5 m	-	*4 020	*4 020	*8 770			3760					*3 140		7.
			ng.	. 520	. 520	0110	0000	0000	0100	0000	2010			0110	2000	

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

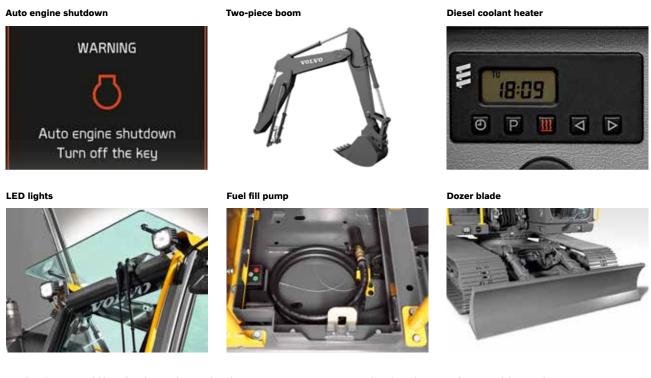
ROPS (ISO12117-2) certified cab with opening top hatch
Silicon oil and rubber mounts with spring
Control lock out lever
Travel pedals and hand levers
Adjustable operator seat with heater and joystick control
console
Control joysticks with 4 switches each
Heater & air-conditioner, automatic
Flexible antenna
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	OPTIONAL EQUIPMENT						
Hydraulic system	Cab and interior						
Boom float function with HRV	Fabric seat without heater						
Boom float function without HRV	Fabric seat with heater and air suspension						
Hydraulic piping:	Control joysticks with semi-long						
Work tool management system (up to 20 programmable	Control joysticks with 3 switch & 1 propotional						
memories)	Cab-mounted falling object guard (FOG)						
Breaker & shear, 1 and 2 pump flow	Cab-mounted falling object protective structure (FOPS)						
Slope & rotator (40lpm or 60lpm)	Pilot control pattern change						
Extra for slope & rotator	Side view camera						
Grapple	Smoker kit (ashtray and lighter)						
Oil leak (drain) line	Safety net for front window						
Quick coupler	Sunlight protection, roof (steel)						
Breaker & shear pressure pre-setting	Lower wiper with intermittent control						
Volvo hydraulic quick coupler S6, S6 without hook	Anti-vandalism kit						
Volvo hydraulic quick coupler VQC-HU,DR14 / RQC-HD,	Specific key						
Steelwrist S60	Digging Equipment						
Hydraulic oil, biodegradable 46	4.6 m 2-piece boom						
Hydraulic oil, ISO VG 32,42, 68	2.1 m, 3.0 m arm						
Hydraulic oil, longlife oil 32, 68	Linkage with lifting eye						
	Service						
	Tool kit, daily maintenance						
	Tool kit, full scale						

SELECTION OF VOLVO OPTIONAL EQUIPMENT



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 Construction Equipment