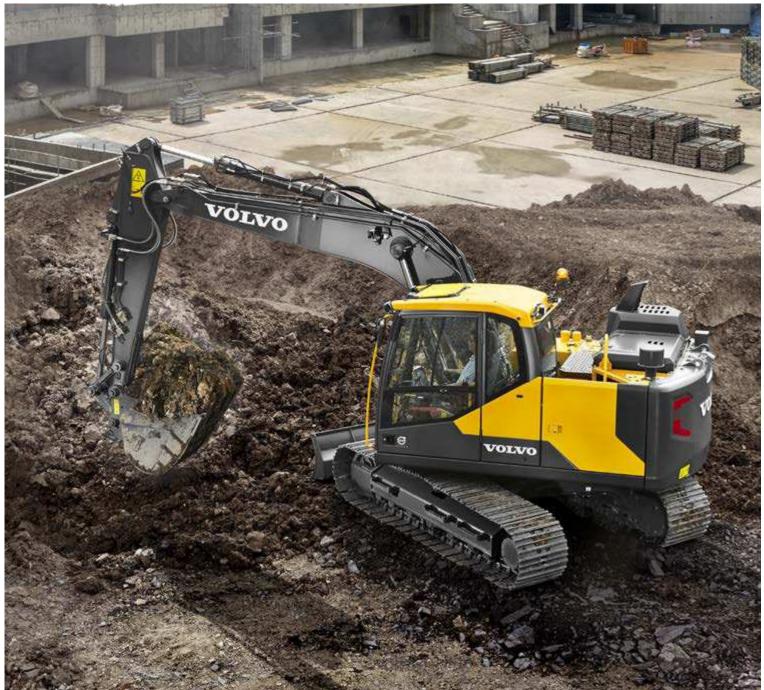


Volvo Construction Equipment



VOLVO EXCAVATORS 14.4 - 16.1 t / 31,220 - 35,500 lb 121 hp



Courtesy of Machine.Market

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 customers around the globe. 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.

A strong, dedicated, capable dealer network.

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation. The strength of our dealer network is enhanced with extensive individualized product support training at our best-in-class Customer Center in Shippensburg and through hands-on training. Using a great Product Demonstration Center featuring a dedicated area for most commons applications, visitors operate equipment from our entire product line under a variety of simulated working conditions. This facility is in year-round use by our dealers and customers. **Building the best starts right here**.

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq. ft. expansion – now covers 570,000 sq. ft. on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.

















Volvo Trucks



Renault Trucks



Mack Trucks

Volvo Penta



UD Trucks



Volvo Financial Services

3 Courtesy of Machine.Market



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.

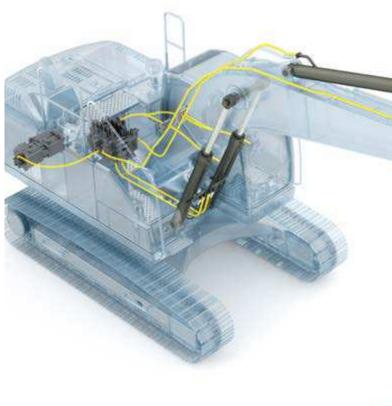
Volvo engine

Featuring proven advanced technology, and built on decades of experience, Volvo's robust D4 Tier 4 Final 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 flow creates a highly responsive combined operation and travel. These improvements produce faster cycle times and lower fuel consumption which leads to higher productivity.





Boom float function

With the boom float function, the pump flow for boom lowering can be transferred to other functions, reducing the cycle time. Boom float can also make grading much easier.

Auto engine shutdown

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.

To reduce fuel consumption, the engine will automatically switch off when the machine is inactive for a pre-set amount of time (five minutes is the default setting).



NO

LVO

Optimized hydraulics system

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in parallel with D4 Tier 4 Final engine to match the engine power, reduce power loss and improve controllability and response time.

VOLVO



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 operator comfort. 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 has taken the E-Series excavator cabs to a whole new level. By putting operator comfort first, Volvo has developed a cab for the EC140E which has everything at the operator's fingertips. Not only will operators be more comfortable – they will be more productive.

Short-cut key

the application without disruption.

Side view camera

As well as the rear view camera, there is now a side view camera option to cover the visual blind spot. Both views are displayed on the color monitor, creating a safer working environment, protecting the operator and personnel on the ground.



Bluetooth®

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

Climate control system

With more than 98% efficiency, Volvo's air filtration system provides the cleanest operator environment in the industry – even in dusty conditions. The high-capacity heating and ventilation system improves comfort, enhancing productivity.

For added convenience, functions such as windshield wipers,

cameras, auto-mute function can all be assigned a short-cut button

on the joystick. This allows the operator to select a function during

Increasing your Expectations.

Volvo stands for quality and the EC140E is a symbol of this. It is a machine full of state of the art features, but the number one priority of every feature is durability. Your working conditions are some of the most demanding, and the EC140E delivers quality which you can be rely on.

ROPS

Volvo cabs are ROPS certified according to the rigorous ISO standards. Their reinforced steel structures ensure the operator is protected in the unlikely event of the machine rolling over.



Lower frame

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

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.





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.

1450

o

Built to last

Working in tough conditions means every component matters - this is why Volvo pays extra attention to each detail during the manufacturing process. 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 work lights.





Ultimate tool carrier

The Volvo excavator can be outfitted with a wide variety of auxiliary circuits from the factory, from breaker and shear piping (X1) to rotator piping (X3). State of the art hydraulics 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 unrivaled consistent quality – easily switching between attachments to maximize uptime and productivity.

Extra piping

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.

<image>

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.

An additional piping solution is available on the breaker and shear

piping (X1), accommodating the use of tilt/rotator attachments.

Routine check-ups.

Proactive maintenance is crucial to prolong machine life – this is why making inspections safe and easy is a priority. Volvo has 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.

Single layer cooling system

ground level by simply opening the side door.

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

Grouped filters

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

<image>

Service interval alerts

Real-time service alerts are displayed on the color 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.



VOLV

VÓLVO

8

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 safe access guardrails to assist in checking the hydraulic tank, fuel tank and Diesel Exhaust Fluid (DEF). This is in addition to the easily accessible side entry, through a wide compartment door.

VOE

Matched attachments

Volvo's durable attachments have been purposebuilt 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.

of Machine.Market

Mix and match for a superior fit.

Maximize your productivity and profitability with Volvo's EC140E crawler excavator 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 the Volvo Tooth System..

Breakers

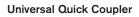
The HB-Series of hydraulic breakers are optimized to the specific weights of Volvo machines and tailored to Volvo quick couplers for swift, safe and simple attachment changes. They are available with a full assortment of tools.



S-type Coupler

The Volvo S-type quick coupler is designed to work with Volvo attachments - delivering ultimate compatibility and unrivalled performance.

Genuine Volvo wear parts



The Volvo universal quick coupler offer maximum versatility. It picks up a variety of attachments from various manufacturers and meets new safety regulations.

Volvo offers a selection of economic, replaceable wear parts including high quality teeth, segments, side cutters, adapters and shrouds to protect the bucket and ensure long life.

Improved total cost of ownership.

Boom and arm

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



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.



Optimized hydraulics

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

Diesel Exhaust Fluid (DEF)

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

Boom float

The pump flow for boom lowering can be transferred to functions, reducing the cycle time. Also, the grading operation can be made easier.



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 color monitor, creating a safer working environment, protecting the operator and personnel on the ground.

Short cut key function

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



VOLVO

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 Diesel Exhaust Fluid. This is in addition to the easily accessible side entry, through a wide compartment door.

Volvo engine

Volvo's D4 Tier 4 Final IV engine boasts more power while reducing both fuel consumption and emissions; delivering superior quality, reliability and durability.

Grouped filters

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



Built to last

Πł.

Volvo pays attention to detail. 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.

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 the positive return of your investment.





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.





0

PROFITABILITY

>

>

Customer Support Agreements

44

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.

sy of Machine Marke

FUEL CONSUMPTION

Volvo EC140E in detail.

Engine

The latest generation of Volvo Tier 4 Final diesel engines 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.

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	hp	89	119
Gross, ISO 14396/SAE J1995	kW	hp	90	121
Max power	Nm	lbf ft	566	417
at engine speed		r/min		1,500
No. of cylinders				4
Displacement	- 1	in³	4.04	247
Bore	mm	in	101	3.98
Stroke	mm	in	126	4.96
Electrical system				

Electrical system

Well protected high-capacity electrical system. Waterproof double-lock harness plugs are used to ensure 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	/ Ah		28/80
Service refill capacities				
Fuel tank	1	gal	250	66
Hydraulic system, total	I	gal	230	61
Hydraulic tank	1	gal	85	22
DEF tank		gal	20	5
Engine oil	1	gal	16	4
Engine coolant		gal	28	7
Swing reduction unit	1	gal	3.9	1
Travel reduction unit	I	gal	2 x 2.2	2 x 1

Swing system

Swing system				
The swing system uses an axial pi planetary gearbox for maximum to brake and anti-rebound valve are s	orque. A	n auto		lding
Max. slew speed		r/min		12.5
Max. slew torque	kNm	lbf ft	38.8	28,620
Drive				
Each track is powered by an autor motor. The track brakes are multi- hydraulic released. The travel moto are well protected within the track	disc, sp or, brake	ring-ap	plied an	ıd
Max. drawbar pull	kN	lbf	119	26,680
Max. travel speed	km/h	mph	3.1/5.5	1.9/3.4
Gradeability		0		35
Undercarriage				
Robust X-shaped frame with great as standard.	ased an	d seale	ed track	chains
Track shoe				2 x 46
Link pitch	mm	in	171	6.8
Shoe width, triple grouser	mm	in	500 600 700 750	20 24 28 30
Shoe width, triple grouser (HD)	mm	in	600	24
Shoe width, rubber grouser	mm	in	500	20
Bottom rollers				2 x 7
Top rollers				2 x 1

Hydraulic system

The hydraulic 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

· · · · ·				
Туре	2 x va	ariable o	displacem pisto	ent axial n pumps
Maximum flow	l/min	gpm	2 x 124	2 x 33
Pilot pump,				
Туре			Ge	ar pump
Maximum flow	l/min	gpm	1 x 20	1 x 5
Relief valve setting:				
Implement	MPa	psi	32.4/ 34.3	4,690/ 4,980
Travel circuit	MPa	psi	34.3	4,980
Slew circuit	MPa	psi	24.5	3,560
Pilot circuit	MPa	psi	3.9	570

Hydraulic motors

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

Hydraulic cylinders

riyuruune eynnuers				
Mono boom				2
Bore x Stroke	ø x mm	ø x in	105 x 980	4.1 x 38.6
2 piece boom				1
Bore x Stroke	ø x mm	ø x in	160 x 765	6.3 x 30.1
Arm				1
Bore x Stroke	ø x mm	ø x in	120 x 1 045	4.7 x 41.1
Bucket				1
Bore x Stroke	ø x mm	ø x in	100 x 865	3.9 x 34.1
Dozer blade				2
Bore x Stroke	ø x mm	ø x in	130 x 270	5.1 x 10.6

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 a 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.

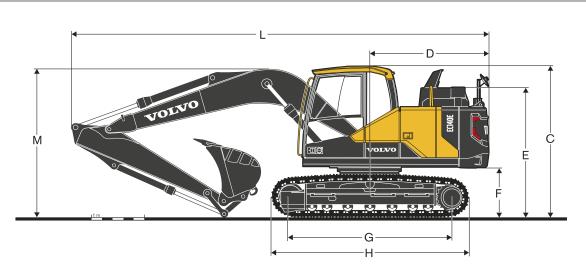
Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents. Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

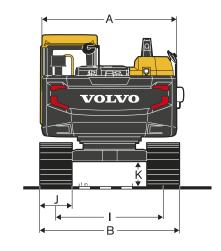
Sound Level

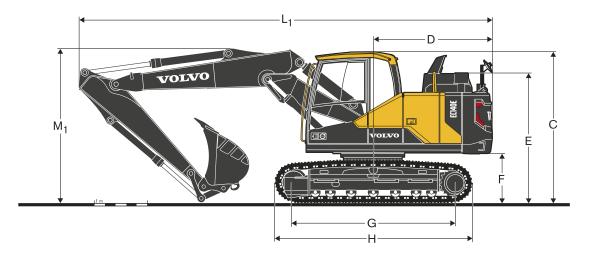
Sound level in cab according to IS	SO 6396	
LpA (standard)	dB(A)	69
LpA (tropical)	dB(A)	70
External sound level according to Directive (2000/14/EC)	ISO 6395, EU No	ise
LwA (standard)	dB(A)	100
LwA (tropical)	dB(A)	101

Specifications.

DIMENSIONS







DIMENSIONS

Des	cription	U	nit			EC14	40EL		
Boo	om (mono & 2-piece)	m ,	ft in			4.6,	15' 1"		
Arm	1	m	ft in	2.1	6' 11"	2.5	8' 2"	3.0	9' 10"
А	Overall width of upper structure	mm	ft in	2 490	8' 2"	2 490	8' 2"	2 490	8' 2"
В	Overall width	mm	ft in	2 590	8' 6"	2 590	8' 6"	2 590	8' 6"
С	Overall height of cab	mm	ft in	2 800	9' 2"	2 800	9' 2"	2 800	9' 2"
D	Tail swing radius	mm	ft in	2 200	7' 3"	2 200	7' 3"	2 200	7' 3"
Е	Overall height of engine hood	mm	ft in	2 400	7' 10"	2 400	7' 10"	2 400	7' 10"
F	Counterweight clearance*	mm	ft in	920	3 '0"	920	3' 0"	920	3' 0"
G	Tumbler length	mm	ft in	3 040	10' 0"	3 040	10' 0"	3 0 4 0	10' 0"
Н	Track length	mm	ft in	3 760	12' 4"	3 760	12' 4"	3 760	12' 4"
I I	Track gauge	mm	ft in	1 990	6' 6"	1 990	6' 6"	1 990	6' 6"
J	Shoe width	mm	ft in	600	2'0"	600	2' 0"	600	2'0"
Κ	Min. ground clearance*	mm	ft in	436	1' 5"	436	1' 5"	436	1' 5"
L	Overall length	mm	ft in	7 720	25' 4"	7 720	25' 4"	7 650	25' 1"
L ₁	Overall length	mm	ft in	7 700	25' 3"	7 660	25' 2"	7 560	24' 10"
M	Overall height of boom	mm	ft in	2 710	8' 11"	2 830	9' 3"	3 210	10' 6"
M,	M ₁ Overall height of boom		ft in	2 720	8' 11"	2 860	9' 5"	3 310	10' 10"

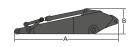
* Without shoe grouser

1 2-piece boom



scription	U	nit	mo	ono	2-piece			
Boom		ft in	4.6	15' 1"	4.6	15' 1"		
Length	mm	ft in	4 770	15' 8"	4 765	15' 8"		
Height	mm	ft in	1 370	4' 6"	1 225	4' 0"		
Width	mm	ft in	545	1'9"	545	1' 9"		
		lb	1 100	2,430	1 900	4,190		
	mLengthmmHeightmmWidthmm	mft inLengthmmft inHeightmmft inWidthmmft in	mft in4.6Lengthmmft in4 770Heightmmft in1 370Widthmmft in545	m ft in 4.6 15' 1" Length mm ft in 4 770 15' 8" Height mm ft in 1 370 4' 6" Width mm ft in 545 1' 9"	m ft in 4.6 15' 1" 4.6 Length mm ft in 4 770 15' 8" 4 765 Height mm ft in 1 370 4' 6" 1 225 Width mm ft in 545 1' 9" 545			

* Includes cylinder, piping and pin, excludes boom cylinder pin



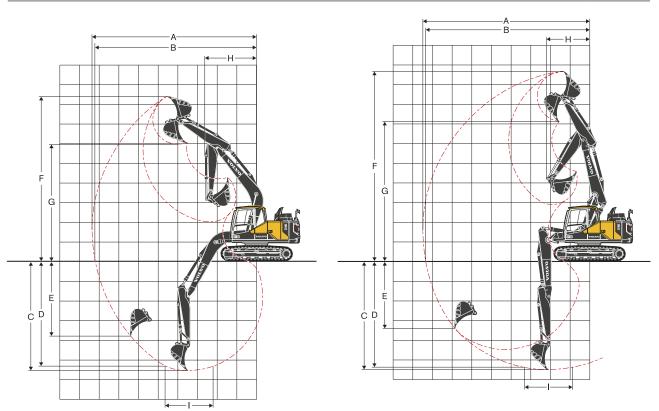
				1							
2-piece Description				U	nit						
1.6	15' 1"	Arr	n	m	ft in	2.1	6' 11"	2.5	8' 2"	3.0	9' 10"
765	15' 8"	А	Length	mm	ft in	2 800	9' 2"	3 200	10' 6"	2 700	8' 10"
225	4' 0"	В	Height	mm	ft in	710	2' 4"	710	2' 4"	710	2' 7"
45	1'9"		Width	mm	ft in	300	1' 0"	300	1' 0"	300	1' 0"
900	4,190		Weight	kg	lb	555	1,220	625	1,380	685	1,510
linder	r pin	* Inc	ludes cylinde	r, linka	ge and	pin					



Fre	ont dozer blade	U	nit		
А	Height	mm	ft in	580	1' 11"
	Width	mm	ft in	2 590	8' 6"
	Weight	kg	lb	458	1,260
В	Lift height	mm	ft in	480	1'7"
С	Digging depth	mm	ft in	600	2'0"

Specifications.

WORKING RANGES



WOR	KING	RANGES															
Desci	riptior	ו		U	nit				-		EC14	IOEL					
Boom	า			m , 1	ft in		4.	6, 15'	1" mor	0			4.(6, 15'1	" 2-pie	се	
Arm				m	ft in	2.1	6' 11"	2.5	8' 2"	3.0	9' 10"	2.1	6' 11"	2.5	8' 2"	3.0	9' 10"
A N	/lax. di	gging reach		mm	ft in	7 980	26' 2"	8 360	27' 5"	8 850	29'0"	8 0 8 0	26' 6"	8 460	27' 9"	8 960	29' 5"
ΒN	/lax. di	gging reach or	ground	mm	ft in	7 840	25' 9"	8 220	27' 0"	8 720	28' 7"	7 930	26' 0"	8 320	27' 4"	8 830	29' 0"
C N	/lax. di	gging depth		mm	ft in	5 160	16' 11"	5 560	18' 3"	6 0 6 0	19' 11"	5 080	16' 8"	5 480	18' 0"	5 980	19' 7"
1)	2 (2.44 m / 8' level)			mm	ft in	4 900	16' 1"	5 340	17' 6"	5 880	19' 3"	4 960	16' 3"	5 360	17' 7"	5 870	19' 3"
ΕN	/lax. ve	ertical wall digg	ing depth	mm	ft in	3 970	13' 0"	4 3 3 0	14' 2"	4 870	16' 0"	3 970	13' 0"	4 340	14' 3"	4 830	15' 10"
FΝ					ft in	8 120	26' 8"	8 360	27' 5"	8 710	28' 7"	9 270	30' 5"	9 630	31' 7"	10 110	33' 2"
G N					ft in	5 720	18'9"	5 950	19' 6"	6 2 9 0	20' 8"	6 7 3 0	22' 1"	7 100	23' 4"	7 570	24' 10"
ΗN	1 0 0			mm	ft in	2 570	8' 5"	2 630	8' 8"	2 740	9' 0"	1 740	5' 9"	1 990	6' 6"	2 410	7' 11"
DIGG	ING F	ORCES WITH	I DIRECT FI	T BU	СКЕ	т											
Buck	et radi	us		mm	ft in	1 274	4'2"	1 274	4' 2"	1 274	4' 2"	1 274	4'2"	1 274	4' 2"	1 274	4' 2"
		Normal	SAE J1179	kN	lbf	80.5	18,100	80.5	18,100	80.5	18,100	80.5	18,100	80.5	18,100	80.5	18,100
Break		Power boost	SAE J1179	kN	lbf	85.4	19,200	85.4	19,200	85.4	19,200	85.4	19,200	85.4	19,200	85.4	19,200
force bucke		Normal	ISO 6015	kN	lbf	91.1	20,480	91.1	20,480	91.1	20,480	91.1	20,480	91.1	20,480	91.1	20,480
DUCK	ει	Power boost	ISO 6015	kN	lbf	96.6	21,720	96.6	21,720	96.6	21,720	96.6	21,720	96.6	21,720	96.6	21,720
-		Normal	SAE J1179	kN	lbf	69.6	15,640	62.1	13,960	55.2	12,420	69.6	15,640	62.1	13,960	55.2	12,420
Tearo		Power boost	SAE J1179	kN	lbf	73.8	16,590	65.9	14,800	58.6	13,170	73.8	16,590	65.9	14,800	58.6	13,170
force		Normal	ISO 6015	kN	lbf	71.5	16,070	63.5	14,280	56.3	12,660	71.5	16,070	63.5	14,280	56.3	12,660
uippe	dipper arm	Power boost	ISO 6015	kN	lbf	75.8	17,040	67.4	15,150	59.7	13,430	75.8	17,040	67.4	15,150	59.7	13,430
Rotat	ion an	gle, bucket		0	þ	1	75	1	75	1	75	1	75	17	75	1	75

MACHINE WEIGHT	IS AN	ID G	ROUND	PRESS	URE											
EC140EL			4.6 m / 15' 1" boom, 2.5 m / 8' 2" arm, 410 kg / 900 lb - 540 l / 143							4.6 m / 15' 1" 2-piece boom						
EC14UEL										ket, 2 45	0 kg / 5	,400 lb	counterv	weight		
Description	Shoe width				Ground pressure			Overall width		ating ight	Ground pressure		Overall width			
	mm	in	kg	lb	kPa	psi	mm	in	kg	lb	kPa	psi	mm	in		
Vithout dozer blade																
	500	20	14 160	31,220	42.2	6.1	2 490	8' 2"	14 580	32,150	43.1	6.3	2 490	8' 2"		
Triple grouser	600	24	14 360	31,660	35.3	5.1	2 590	8' 6"	14 780	32,590	36.3	5.3	2 590	8' 6"		
	700	28	14 560	32,100	31.4	4.6	2 690	8' 10"	14 980	33,030	31.4	4.6	2 690	8' 10"		
	750	30	14 740	32,500	29.4	4.3	2 740	9' 0"	15 160	33,430	30.4	4.4	2 740	9' 0"		
Triple grouser (HD)	600	24	14 430	31,820	35.3	5.1	2 590	8' 6"	14 850	32,740	37.3	5.4	2 590	8' 6"		
Rubber grouser	500	20	14 200	31,310	42.2	6.1	2 490	8' 2"	14 620	32,240	43.1	6.3	2 490	8' 2"		
With dozer blade																
	500	20	15 100	33,300	45.1	6.5	2 490	8' 2"	15 520	34,220	46.1	6.7	2 490	8' 2"		
	600	24	15 300	33,740	38.2	5.5	2 590	8' 6"	15 720	34,660	39.2	5.7	2 590	8' 6"		
Triple grouser	700	28	15 500	34,180	33.3	4.8	2 690	8' 10"	15 920	35,100	34.3	5.0	2 690	8' 10"		
	750	30	15 680	34,570	31.4	4.6	2 740	9' 0"	16 100	35,500	32.4	4.7	2 740	9' 0"		
Triple grouser (HD)	600	24	15 370	33,890	38.2	5.5	2 590	8' 6"	15 790	34,820	39.2	5.7	2 590	8' 6"		
Rubber grouser	500	20	15 140	33,380	45.1	6.5	2 490	8' 2"	15 560	34,310	46.1	6.7	2 490	8' 2"		

BUCKET	SELECTI	ON GU	IDE											
											EC14	40EL		
Bucke	et type	Сар	acity		ting dth	We	ight	Teeth	2 10	mm / 20' 0 kg / 4,6 unterweig	30 lb Iht	2 45 co	mm / 20' 0 kg / 5,4 unterweig	00 lb
		m ³	yd ³	mm	in	kg	lb	EA	2.1 m / 6' 11" arm	2.5 m / 8' 2" arm	4.6 m / 15 3.0 m / 9' 10" arm	5' 1" boom 2.1 m / 6' 11" arm	2.5 m / 8' 2" arm	3.0 m / 9' 10" arm
		0.66	0.86	1 050	41.34	480	1,059	4	С	С	С	С	С	С
		0.77	1.01	1 200	47.24	541	1,193	5	С	С	В	С	С	С
	General	0.25	0.33	450	17.72	330	729	3	С	С	С	С	С	С
	purpose	0.33	0.43	600	23.62	361	797	3	С	С	С	С	С	С
Direct fit		0.42	0.55	750	29.53	392	864	3	С	С	С	С	С	С
Buckets		0.54	0.71	900	35.43	440	971	4	С	С	С	С	С	С
		0.25	0.33	450	17.72	320	705	3	D	D	D	D	D	D
	Heavy	0.33	0.43	600	23.62	352	777	3	D	D	D	D	D	D
	duty	0.42	0.55	750	29.53	384	848	3	D	D	D	D	D	D
		0.54	0.71	900	35.43	445	981	4	D	D	D	D	D	D

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

	kg/m ³	lb/yd ³	
Α	1 200 - 1 300	2,000 - 2,200	Coal, Caliche, Shale
в	1 400 - 1 600	2,300 - 2,700	Wet earth and clay, Limestone, Sandstone
С	1 700 - 1 800	2,800 - 3,100	Granite, Wet sand, Well blasted rock
D	> 1 900	> 3,200	Wet mud, Iron ore

Specifications.

LIFTING CAPACITY EC140EL without dozer blade

Lifting capacity at the arm e For lifting capacity including				actual weig	uht of the d	irect fit bur	cket or the	bucket with	n quick cou	nler from t	ne followin	n values	
Tor ming capacity including	Lifting I			n, 5 ft		, 10 ft		, 15 ft		, 20 ft		Max. Reach	1
	related ground leve	d to nd	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	3 390	4.9 m
Arm: 2.1 m / 6' 11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	7,710	15.8 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 450	6.0 m
CWT: 2 100 kg / 4,630 lb	15 ft	lb	-	-	-	-	*7,600	*7,600	-	-	*7,850	5,470	19.5 ft
	3 m 10 ft	kg Ib	-	-	*6 230	*6 230 *13,270	*4 330 *9,380	3 700	3 710	2 410	3 220	2 090	6.5 m 21.4 ft
	1.5 m	kg	-	-	*13,270	-	*5 390	7,950 3 490	7,950 3 620	5,160 2 320	7,130 3 040	4,620 1 960	6.7 m
	5 ft	lb	-	-	-	-	*11,650	7,490	7,770	4,990	6,710	4,320	22.0 ft
	0 m	kg	-	-	*5 400	*5 400	5 460	3 350	3 550	2 260	3 120	2 000	6.5 m
	0 ft	lb	-	-	*12,670	*12,670	11,680	7,190	7,620	4,850	6,890	4,410	21.5 ft
	-1.5 m	kg	*5 010	*5 010	*9 440	6 080	5 4 1 0	3 310	-	-	3 540	2 250	6.0 m
	-5 ft	lb	*11,310	*11,310	*20,480	13,010	11,590	7,110	-	-	7,830	4,980	19.6 ft
	-3 m	kg	-	-	*8 220	6 200	*5 470	3 380	-	-	4 800	3 000	4.9 m
	-10 ft	lb	-	-	*17,740	13,280	*11,710	7,270	-	-	*10,660	6,710	16.0 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	2 920	5.4 m
Arm: 2.5 m / 8' 2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	6,600	17.5 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 470	*3 170	2 210	6.4 m
CWT: 2 100 kg / 4,630 lb	15 ft	lb	-	-	-	-	*6,740	*6,740	*7,080	5,310	*7,000	4,920	20.9 ft
	3 m 10 ft	kg Ib	-	-	*5 330	*5 330 *11,370	*3 950 *8,570	3 720 8,030	*3 490 *7,630	2 410 5,190	2 950 6,520	1 910 4,230	6.9 m 22.7 ft
	1.5 m	kg	-	-	*11,370	-	*5 070	3 490	3 600	2 310	2 790	1 800	7.1 m
	5 ft	lb	-	-	*16,030	13,570	*10.980	7,530	7,770	4,980	6,170	3,970	23.3 ft
	0 m	kg	-	-	*5 970	*5 970	5 420	3 320	3 520	2 230	2 850	1 820	6.9 m
	0 ft	lb	-	-	*13,890	12,940	11,670	7,170	7,580	4,820	6,300	4,030	22.7 ft
	-1.5 m	kg	*4 550	*4 550	*9 610	5 980	5 350	3 260	3 480	2 200	3 180	2 020	6.4 m
	-5 ft	lb	*10,250	*10,250	*20,840	12,870	11,510	7,030	7,520	4,760	7,030	4,470	21.0 ft
	-3 m	kg	*8 940	*8 940	*8 690	6 080	5 390	3 300	-	-	4 080	2 570	5.4 m
	-10 ft	lb	*20,220	*20,220	*18,770	13,070	11,610	7,120	-	-	9,120	5,730	17.7 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	-	-	*2 860	2 490	*2 810	2 460	6.0 m
Arm: 3.0 m / 9' 10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	5,540	19.6 ft
Shoe: 600 mm / 24" CWT: 2 100 kg / 4,630 lb	4.5 m 15 ft	kg Ib	-	-	-	-	-	-	*2 780 *6,140	2 490 5,360	*2 640 *5,830	1 940 4,310	6.9 m 22.7 ft
CW1. 2 100 kg / 4,050 lb	3 m	kg	-	-	-	-	*3 440	*3 440	*3 140	2 410	*2 630	1 700	7.4 m
	10 ft	lb	-	-		-	*7,460	*7,460	*6,870	5,190	*5,800	3,760	24.3 ft
	1.5 m	kg	-	-	*7 320	6 4 2 0	*4 620	3 500	3 600	2 300	2 510	1 600	7.6 m
	5 ft	lb	-	-	*15,710	13,840	*10,010	7,560	7,750	4,960	5,540	3,540	24.9 ft
	0 m	kg	-	-	*6 510	5 990	5 410	3 300	3 490	2 200	2 550	1 620	7.4 m
	0 ft	lb	-	-	*15,160	12,890	11,630	7,120	7,520	4,750	5,620	3,570	24.4 ft
	-1.5 m	kg	*3 990	*3 990	*8 760	5 880	5 290	3 200	3 430	2 150	2 790	1 760	6.9 m
	-5 ft	lb	*8,970	*8,970	*20,130	12,650	11,380	6,910	7,390	4,630	6,170	3,900	22.7 ft
	-3 m -10 ft	kg Ib	*7 370 *16,640	*7 370 *16,640	*9 080 *19,640	5 930 12,760	5 300 11,400	3 210 6,920	3 460	2 170	3 420 7,620	2 150 4,790	6.0 m 19.7 ft
	-4.5 m	kg	-	-	*7 210	6 1 4 0	-	-	-	-	*4 480	3 360	4.5 m
	-15 ft	lb	-	-	*15,330	13,220	-	-	-		*9,920	7,690	14.4 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	*3 500	4.9 m
Arm: 2.1 m / 6' 11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	*7,730	15.8 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 610	6.0 m
CWT: 2 450 kg / 5,400 lb	15 ft	lb	-	-	-	-	*7,600	*7,600	-	-	*7,850	5,820	19.5 ft
	3 m	kg	-	-	*6 230	*6 230	*4 330	3 910	*3 750	2 550	3 400	2 230	6.5 m
	10 ft	lb	-	-	*13,270	*13,270	*9,380	8,440	*8,210	5,500	7,530	4,940	21.4 ft
	1.5 m 5 ft	kg Ib	-	-	-	-	*5 390 *11,650	3 700 7,990	3 800 8,200	2 470 5,330	3 220 7,100	2 100 4,630	6.7 m 22.0 ft
	0 m	kg	-	-	*5 400	*5 400	5 730	3 560	3 730	2 410	3 300	2 1 4 0	6.5 m
	0 ft	lb	-	-	*12,670	*12,670	12,340	7,690	8,050	5,200	7,280	4,720	21.5 ft
	-1.5 m	kg	*5 010	*5 010	*9 440	6 460	5 690	3 520	-	-	3 740	2 410	6.0 m
	-5 ft	lb	*11,310	*11,310	*20,480	13,880	12,240	7,610	-	-	8,280	5,330	19.6 ft
	-3 m	kg	-	-	*8 220	6 580	*5 470	3 590	-	-	*4 820	3 200	4.9 m
	-10 ft	lb	-	-	*17,740	14,150	*11,710	7,770	-	-	*10,660	7,160	16.0 ft

-10 ft lb - - - *17,740 14,150 *11,710 7,770 - - *10,660 7,160 16.00 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 without dozer blade

0 1 3			1.5 m, 5 ft		3.0 m, 10 ft		4.5 m, 15 ft		6.0 m, 20 ft		he following values. Max. Reach		
	Lifting I related groun leve	d to nd	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	<u> </u>
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	3 100	5.4 m
Arm: 2.5 m / 8' 2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	7,010	17.5 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 630	*3 170	2 350	6.4 m
CWT: 2 450 kg / 5,400 lb	15 ft	lb	-	-	-	-	*6,740	*6,740	*7,080	5,660	*7,000	5,250	20.9 ft
	3 m	kg	-	-	*5 330	*5 330	*3 950	3 950	*3 490	2 560	3 1 1 0	2 040	6.9 m
	10 ft	lb	-	-	*11,370	*11,370	*8,570	8,520	*7,630	5,530	6,890	4,520	22.7 ft
	1.5 m	kg	-	-	-	-	*5 070	3 720	3 810	2 470	2 960	1 930	7.1 m
	5 ft	lb	-	-	*16,030	14,450	*10,980	8,020	8,200	5,330	6,530	4,260	23.3 ft
	0 m	kg	-	-	*5 970	*5 970	5 730	3 550	3 720	2 390	3 020	1 960	6.9 m
	0 ft	lb	-	-	*13,890	13,820	12,320	7,670	8,020	5,160	6,670	4,320	22.7 ft
	-1.5 m	kg	*4 550	*4 550	*9 610	6 390	5 650	3 490	3 690	2 360	3 360	2 170	6.4 m
	-5 ft	lb	*10,250	*10,250	*20,840	13,740	12,170	7,530	7,950	5,100	7,440	4,790	21.0 ft
	-3 m	kg	*8 940	*8 940	*8 690	6 480	5 700	3 520	-	-	4 320	2 750	5.4 m
	-10 ft	lb	*20,220	*20,220	*18,770	13,940	12,260	7,610	-	-	9,630	6,130	17.7 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	-	-	*2 860	2 650	*2 810	2 620	6.0 m
Arm: 3.0 m / 9' 10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	5,890	19.6 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	2 650	*2 640	2 070	6.9 m
CWT: 2 450 kg / 5,400 lb	15 ft	lb	-	-	-	-	-	-	*6,140	5,710	*5,830	4,610	22.7 ft
	3 m	kg	-	-	-	-	*3 440	*3 440	*3 140	2 570	*2 630	1 820	7.4 m
	10 ft	lb	-	-	-	-	*7,460	*7,460	*6,870	5,540	*5,800	4,030	24.3 ft
	1.5 m	kg	-	-	*7 320	6 830	*4 620	3 730	*3 680	2 460	2 660	1 720	7.6 m
	5 ft	lb	-	-	*15,710	14,710	*10,010	8,060	*8,020	5,300	5,870	3,800	24.9 ft
	0 m	kg	-	-	*6 510	6 400	*5 620	3 530	3 690	2 360	2 700	1 740	7.4 m
	0 ft	lb	-	-	*15,160	13,760	*12,180	7,610	7,950	5,090	5,960	3,840	24.4 ft
	-1.5 m	kg	*3 990	*3 990	*8 760	6 290	5 600	3 430	3 630	2 310	2 960	1 900	6.9 m
	-5 ft	lb	*8,970	*8,970	*20,130	13,520	12,040	7,400	7,830	4,980	6,540	4,190	22.7 ft
	-3 m	kg	*7 370	*7 370	*9 080	6 340	5 600	3 430	3 660	2 330	3 620	2 310	6.0 m
	-10 ft	lb	*16,640	*16,640	*19,640	13,630	12,050	7,410	-	-	8,060	5,140	19.7 ft
	-4.5 m	kg	-	-	*7 210	6 540	-	-	-	-	*4 480	3 590	4.5 m
	-15 ft	lb	-	-	*15,330	14,100	-	-	-	-	*9,920	8,210	14.4 ft

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 with dozer blade

Lifting capacity at the arm e For lifting capacity including	nd withc	out bu	cket.		abt of the d	lirect fit b	oket or the	huckot witi	h quick cou	nler from H	he followin	a values	
For inting capacity including		<u> </u>		n, 5 ft		, 10 ft		15 ft		, 20 ft	r	g values. Max. Reach	1
	Lifting I relate grou leve	d to nd	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	*3 500	4.9 m
Arm: 2.1 m / 6' 11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	*7,730	15.8 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 770	6.0 m
CWT: 2 100 kg / 4,630 lb	15 ft	lb	-	-	-	-	*7,600	*7,600	-	-	*7,850	6,170	19.5 ft
	3 m	kg	-	-	*6 230	*6 230	*4 330	4 160	*3 750	2 710	*3 710	2 370	6.5 m
	10 ft	lb	-	-	*13,270	*13,270	*9,380	8,980	*8,210 *4 170	5,840	*8,170 *3 910	5,240	21.4 ft
	1.5 m 5 ft	kg Ib	-	-	-	-	*5 390 *11,650	3 950 8,520	*9,100	2 630 5,670	*8,610	2 230 4,920	6.7 m 22.0 ft
	0 m	kg	-	-	*5 400	*5 400	*6 100	3 810	*4 520	2 560	*4 160	2 280	6.5 m
	0 ft	lb	-	-	*12,670	*12,670	*13,220	8,210	*9,820	5,530	*9,170	5,020	21.5 ft
	-1.5 m	kg	*5 010	*5 010	*9 440	6 990	*6 220	3 770	-	-	*4 470	2 560	6.0 m
	-5 ft	lb	*11,310	*11,310	*20,480	15,020	*13,490	8,130	-		*9,870	5,670	19.6 ft
	-3 m	kg	-	-	*8 220	7 120	*5 470	3 840	-	-	*4 820	3 410	4.9 m
	-10 ft	lb	-	-	*17,740	15,300	*11,710	8,290	-	-	*10,660	7,640	16.0 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	*3 210	5.4 m
Arm: 2.5 m / 8' 2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	*7,080	17.5 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 790	*3 170	2 500	6.4 m
CWT: 2 100 kg / 4,630 lb	15 ft	lb	-	-	-	-	*6,740	*6,740	*7,080	6,000	*7,000	5,560	20.9 ft
	3 m	kg	-	-	*5 330	*5 330	*3 950	*3 950	*3 490	2 720	*3 160	2 1 7 0	6.9 m
	10 ft	lb	-	-	*11,370	*11,370	*8,570	*8,570	*7,630	5,870	*6,970	4,800	22.7 ft
	1.5 m	kg	-	-	-	-	*5 070	3 960	*3 970	2 620	*3 340	2 050	7.1 m
	5 ft	lb	-	-	*16,030	15,610	*10,980	8,560	*8,660	5,660	*7,360	4,520	23.3 ft
	0 m 0 ft	kg Ib	-	-	*5 970 *13,890	*5 970 *13,890	*5 920 *12,830	3 800	*4 400 *9,560	2 540	*3 740	2 080	6.9 m 22.7 ft
	-1.5 m	kg	*4 550	*4 550	*9 610	6 930	*6 220	8,190 3 730	*4 520	5,490 2 510	*8,260 *4 150	4,600 2 310	6.4 m
	-5 ft	lb	*10.250	*10,250	*20.840	14,880	*13,470	8,050	*9,780	5,430	*9,180	5,100	21.0 ft
	-3 m	kg	*8 940	*8 940	*8 690	7 020	*5 770	3 770	-	-	*4 510	2 930	5.4 m
	-10 ft	lb	*20,220	*20,220	*18,770	15,090	*12,430	8,140	-	-	*9,960	6,540	17.7 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	-	-	*2 860	2 810	*2 810	2 770	6.0 m
Arm: 3.0 m / 9' 10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	6,240	19.6 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	*2 780	*2 640	2 200	6.9 m
CWT: 2 100 kg / 4,630 lb	15 ft	lb	-	-	-	-	-	-	*6,140	6,050	*5,830	4,890	22.7 ft
	3 m	kg	-	-	-	-	*3 440	*3 440	*3 140	2 730	*2 630	1 930	7.4 m
	10 ft	lb	-	-	-	-	*7,460	*7,460	*6,870	5,880	*5,800	4,280	24.3 ft
	1.5 m	kg	-	-	*7 320	*7 320	*4 620	3 980	*3 680	2 610	*2 760	1 830	7.6 m
	5 ft 0 m	lb	-	-	*15,710 *6 510	*15,710 *6 510	*10,010 *5 620	8,590 3 770	*8,020 *4 190	5,640 2 510	*6,070 *3 040	4,050 1 850	24.9 ft 7.4 m
	0 ft	kg Ib	-	-	*15,160	14,910	*12,180	8,140	*9,110	5,420	*6,700	4,090	24.4 ft
	-1.5 m	kg	*3 990	*3 990	*8 760	6 820	*6 110	3 670	*4 460	2 460	*3 590	2 020	6.9 m
	-5 ft	lb	*8,970	*8,970	*20,130	14,660	*13,240	7,920	*9,680	5,310	*7,960	4,470	22.7 ft
	-3 m	kg	*7 370	*7 370	*9 080	6 880	*5 950	3 680	*4 160	2 480	*4 100	2 460	6.0 m
	-10 ft	lb	*16,640	*16,640	*19,640	14,780	*12,860	7,940	-	-	*9,070	5,480	19.7 ft
	-4.5 m	kg	-	-	*7 210	7 090	-	-	-	-	*4 480	3 840	4.5 m
	-15 ft	lb	-	-	*15,330	15,260	-	-	-	-	*9,920	8,780	14.4 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	*3 500	4.9 m
Arm: 2.1 m / 6' 11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	*7,730	15.8 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 930	6.0 m
CWT: 2 450 kg / 5,400 lb	15 ft	lb	-	-	*6 020	*6 020	*7,600	*7,600	- *2 750	-	*7,850	6,540	19.5 ft
	3 m 10 ft	kg	-	-	*6 230 *13,270	*6 230 *13,270	*4 330 *9,380	*4 330 *9,380	*3 750 *8,210	2 870	*3 710 *8,170	2 520 5,570	6.5 m 21.4 ft
	1.5 m	lb kg	-	-	-	-	*5 390	4 180	*4 170	6,200 2 790	*3 910	2 370	6.7 m
	5 ft	lb	-	-	-	-	*11,650	9,030	*9,100	6,020	*8,610	5,240	22.0 ft
	0 m	kg	-	-	*5 400	*5 400	*6 100	4 040	*4 520	2 730	*4 160	2 420	6.5 m
	0 ft	lb	-	-	*12,670	*12,670	*13,220	8,730	*9,820	5,890	*9,170	5,350	21.5 ft
	-1.5 m	kg	*5 010	*5 010	*9 440	7 420	*6 220	4 010	-	-	*4 470	2 7 3 0	6.0 m
	-5 ft	lb	*11,310	*11,310	*20,480	15,950	*13,490	8,640	-	-	*9,870	6,040	19.6 ft
	-3 m	kg	-	-	*8 220	7 550	*5 470	4 070	-	-	*4 820	3 630	4.9 m
	-10 ft	lb	-	-	*17,740	16,230	*11,710	8,810	-	-	*10,660	8,110	16.0 ft

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

		1	1.5m. 5 ft		3.0m, 10 ft		4.5m, 15 ft		6.0m, 20 ft		the following values. Max. Reach		
	Lifting I related grout leve	d to nd	Along UC	Across UC	Along UC	Across UC	Along UC	Across	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	*3 210	5.4 m
Arm: 2.5 m / 8' 2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	*7,080	17.5 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 950	*3 170	2 650	6.4 m
CWT: 2 450 kg / 5,400 lb	15 ft	lb	-	-	-	-	*6,740	*6,740	*7,080	6,350	*7,000	5,900	20.9 ft
	3 m	kg	-	-	*5 330	*5 330	*3 950	*3 950	*3 490	2 890	*3 160	2 310	6.9 m
	10 ft	lb	-	-	*11,370	*11,370	*8,570	*8,570	*7,630	6,220	*6,970	5,110	22.7 ft
	1.5 m	kg	-	-	-	-	*5 070	4 200	*3 970	2 790	*3 340	2 180	7.1 m
	5 ft	lb	-	-	*16,030	*16,030	*10,980	9,070	*8,660	6,020	*7,360	4,820	23.3 ft
	0 m	kg	-	-	*5 970	*5 970	*5 920	4 0 4 0	*4 400	2 7 1 0	*3 740	2 220	6.9 m
	0 ft	lb	-	-	*13,890	*13,890	*12,830	8,710	*9,560	5,850	*8,260	4,900	22.7 ft
	-1.5 m	kg	*4 550	*4 550	*9 610	7 360	*6 220	3 970	*4 520	2 680	*4 150	2 460	6.4 m
	-5 ft	lb	*10,250	*10,250	*20,840	15,800	*13,470	8,570	*9,780	5,790	*9,180	5,440	21.0 ft
	-3 m	kg	*8 940	*8 940	*8 690	7 450	*5 770	4 010	-	-	*4 510	3 1 2 0	5.4 m
	-10 ft	lb	*20,220	*20,220	*18,770	16,010	*12,430	8,650	-	-	*9,960	6,950	17.7 ft
Boom: 4.6 m / 15' 1"	6 m	kg	-	-	-	-	-	-	*2 860	*2 860	*2 810	*2 810	6.0 m
Arm: 3.0 m / 9' 10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	*6,250	19.6 ft
Shoe: 600 mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	*2 780	*2 640	2 330	6.9 m
CWT: 2 450 kg / 5,400 lb	15 ft	lb	-	-	-	-	-	-	*6,140	*6,140	*5,830	5,190	22.7 ft
	3 m	kg	-	-	-	-	*3 440	*3 440	*3 140	2 890	*2 630	2 060	7.4 m
	10 ft	lb	-	-	-	-	*7,460	*7,460	*6,870	6,230	*5,800	4,560	24.3 ft
	1.5 m	kg	-	-	*7 320	*7 320	*4 620	4 220	*3 680	2 780	*2 760	1 960	7.6 m
	5 ft	lb	-	-	*15,710	*15,710	*10,010	9,110	*8,020	5,990	*6,070	4,320	24.9 ft
	0 m	kg	-	-	*6 510	*6 510	*5 620	4 010	*4 190	2 680	*3 040	1 980	7.4 m
	0 ft	lb	-	-	*15,160	*15,160	*12,180	8,660	*9,110	5,780	*6,700	4,370	24.4 ft
	-1.5 m	kg	*3 990	*3 990	*8 760	7 250	*6 110	3 910	*4 460	2 620	*3 590	2 160	6.9 m
	-5 ft	lb	*8,970	*8,970	*20,130	15,580	*13,240	8,440	*9,680	5,670	*7,960	4,770	22.7 ft
	-3 m	kg	*7 370	*7 370	*9 080	7 310	*5 950	3 920	*4 160	2 650	*4 100	2 620	6.0 m
	-10 ft	lb	*16,640	*16,640	*19,640	15,700	*12,860	8,450	-	-	*9,070	5,840	19.7 ft
	-4.5 m	kg	-	-	*7 210	*7 210	-	-	-	-	*4 480	4 080	4.5 m
	-15 ft	lb	-	-	*15,330	*15,330	-	-	-	-	*9,920	9,330	14.4 ft

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 Tier 4f EU (Stage IV)
requirements
Air filter with indicator
Air intake heater
Cyclone pre-cleaner
Electric engine shut-off
Fuel filter and water separator
Alternator, 80 A
Tropical cooling system (50 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: 2
Travel alarm
Batteries, 2 x 12 V/100 Ah
Start motor, 24 V/5.5 kW
Hydraulic system
Boom float function without HRV
Straight travel pedal
Pilot control pattern change
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, 46
Frame
Access way with handrail

Tool storage area Punched metal anti-slip plates Heavy duty lower cover plates 2 450 kg / 5,400 lb counterweight

Cab and interior

ROPS (ISO12117-2) certified cab
Silicon oil and rubber mounts with spring
Control lock out lever
Travel pedals and hand levers
Adjustable operator seat with heater
Control joysticks with 4 switches each
Heater & air-conditioner, automatic
Flexible antenna
Radio with MP3, USB port, and 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
Windshield wiper with intermittent feature
Rear view camera
Master key
Undercarriage
Heavy duty belly cover plates
Hydraulic track adjusters
Greased and sealed track link
Track Guard
600 mm/24" with triple grousers
Digging equipment
4.6 m/15' 1" mono boom
2.5 m/8' 2" arm
Linkage
Manual centralized lubrication

OPTIONAL EQUIPMENT
Engine
Block heater: 120 V
Diesel coolant heater, 5 kW
Water separator with heater
Auto engine shutdown
Standard cooling system by fan clutch(40 deg. C)
Fuel filler pump: 30 I/min/9 gpm
Electric
Extra work lights (Halogen or LED):
Cab-mounted 3
Counterweight-mounted 1
Anti-theft system
Rotating warning beacon

lydraulic system	Cab and interior
Boom hose rupture valve with overload warning device	Cab-mounted falling object guard (FOG)
Arm hose rupture valve	Cab-mounted falling object protective structure (FOPS)
Boom float function with HRV	Rain shield
Hydraulic piping:	Side view camera
Work tool management system (up to 20 programmable	Smoker kit (ashtray and lighter)
memories)	Safety net for front window
Breaker & shear, 1 and 2 pump flow	Sunlight protection, roof (steel)
Slope & rotator (40 lpm/11 gpm or 60 lpm/16 gpm)	Lower wiper with intermittent control
Extra for slope & rotator	Anti-vandalism kit
Grapple	Specific key
Oil leak (drain) line	Frame
Quick coupler	2 100 kg / 4,630 lb counterweight
Breaker & shear pressure pre-setting	Undercarriage
Volvo hydraulic quick coupler S6, S6 without hook	Dozer blade
Volvo hydraulic quick coupler VQC-HU,DR14 / RQC-HD	Full track guard
Hydraulic oil, biodegradable 46	500 mm/20", 600 mm/24", 600 mm/24" HD,
Hydraulic oil, ISO VG 32,46, 68	700 mm/28", 750 mm/30" shoe with triple grousers
Hydraulic oil, longlife oil 32, 68	and 500 mm/20" with rubber grousers
Cab and interior	Digging equipment
Fabric seat without heater	4.6 m/15' 1" 2-piece boom
Fabric seat with heater and air suspension	2.1 m/6' 11", 3.0 m/9' 11" arm
Control joysticks with semi-long	Linkage with lifting eye
Control joysticks with 3 switch & 1 propotional	Service
Opening top hatch	Tool kit, daily maintenance
	Tool kit, full scale

Selection of Volvo optional equipment

Auto engine shutdown



LED lights



Two-piece boom



Fuel fill pump



Diesel coolant heater



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. Ref. No VOE2210009389 / English-22 / 2015.06 / EXC / Volvo CE, Americas

Volvo Construction Equipment



Courtesy of Machine.Market