Solicitation Response(SR) **Dept:** 0310 **ID:** ESR05102200000007014 **Ver.:** 1 **Function:** New **Phase:** Final

Modified by batch , 05/24/2022

Header 3

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder:
1036706

Procurement Type:
Agency Purchase Order

Vendor ID:
000000218366

Legal Name:
RUDD EQUIPMENT COMPANY INC

Alias/DBA:

Total Bid:
$185,122.00

Response Date:
05/24/2022

Response Time:
7:53

Responded By User ID:
Ruddequip

First Name:
Leigh

Last Name:
Tetrick

Email:
ltetrick@ruddequipment.c

Phone:
304-755-7788

SO Doc Code:
ARFQ

SO Dept:
0310

SO Doc ID:
DNR2200000033

Published Date:
5/18/22

Close Date:
5/24/22

Close Time:
13:30

Status:
Closed

Solicitation Description:
Addendum No. 01 - Wildlife: 15 Ton Steel Track Excavator

Total of Header Attachments:
3

Total of All Attachments:
3

State of West Virginia
Agency Request for Quote
Equipment

Proc Folder: 1036706			**Reason for Modification:**
Doc Description: Addendum No. 01 - Wildlife: 15 Ton Steel Track Excavator			Addendum Addendum No. 01 is issued to publish and distribute the attached information to the Vendor Community.
Proc Type: Agency Purchase Order			
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2022-05-18	2022-05-24 13:30	ARFQ 0310 DNR2200000033	2

BID RECEIVING LOCATION

BID RESPONSE
DIVISION OF NATURAL RESOURCES
PROPERTY & PROCUREMENT OFFICE
324 4TH AVE
SOUTH CHARLESTON WV 25303-1228
US

VENDOR

Vendor Customer Code:
Vendor Name :
Address :
Street :
City :
State : **Country :** **Zip :**
Principal Contact :
Vendor Contact Phone: **Extension:**

FOR INFORMATION CONTACT THE BUYER
James H Adkins
(304) 558-3397
jamie.h.adkins@wv.gov

Vendor Signature X  **FEIN#** 61-0445955 **DATE** 5/24/22

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

The West Virginia Division of Natural Resources is soliciting bids on behalf of the Wildlife Resources Section for the one-time purchase of a 15-ton steel track excavator.

INVOICE TO		SHIP TO	
DIVISION OF NATURAL RESOURCES		SUMMERSVILLE WMA	
DISTRICT III OFFICE		3421 Summersville Lake Rd	
163 WILDLIFE RD			
FRENCH CREEK	WV	Summersville	WV
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Excavator -15 Ton Steel Track	1.00000	EA	$ 185,122	$ 185,122

Comm Code	Manufacturer	Specification	Model #
22100000	VOLVO	Hyd. Excavator	EC140EL

Extended Description:
Heavy construction machinery and equipment

SCHEDULE OF EVENTS

Line	Event	Event Date
1	TECHNICAL QUESTION DEADLINE at 9:00 a.m. ET	2022-05-12

	Document Phase	Document Description	Page 3
DNR2200000033	Final	Addendum No. 01 - Wildlife: 15 Ton Steel Track Excavator	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: ARFQ DNR22*33

Addendum Number: No. 01

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

[X] Modify bid opening date and time

[ ] Modify specifications of product or service being sought

[X] Attachment of vendor questions and responses

[ ] Attachment of pre-bid sign-in sheet

[ ] Correction of error

[ ] Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. To move bid due date to Tuesday May 24, 2022 at 1:30pm.
2. To address submitted questions.

NO OTHER CHANGES.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.

2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

Attachment A

Addendum No. 01
ARFQ DNR22*33

Technical Questions:

Q1: Would you accept 2021 year model if model hasn't changed?

A1: A 2021 model year would be accepted as a substitute if it were brand new and met all other mandatory specifications.

Q2: Would you accept 3.0L Engine if HP meets requirements?

A2: No.

Q3: Are you looking for belly pans under the machine in case something comes through the tracks?

A3: Yes, this machine will be used almost exclusively in a forested setting on uneven ground exposed to rocks and stumps, logs and branches and therefore must be protected underneath from damage.

Q4: Must have an air suspension heated seat?

A4: Yes.

Q5: Would you accept a non heated seat?

A5: No.

Q6: With ongoing inventory availability issues, would you extend your delivery timeline?

A6: At this time, the specified delivery is reasonable.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: ARFQ DNR22*33

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

- [x] Addendum No. 1
- [ ] Addendum No. 2
- [ ] Addendum No. 3
- [ ] Addendum No. 4
- [ ] Addendum No. 5
- [ ] Addendum No. 6
- [ ] Addendum No. 7
- [ ] Addendum No. 8
- [ ] Addendum No. 9
- [ ] Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Rudd Equipment Company, Inc.
Company

Authorized Signature

5/24/22
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Rudd Equipment Company, Inc.

Authorized Signature: _____ Date: 5-10-22

State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 10th day of May, 2022.

My Commission expires 2-8, 2027.

AFFIX SEAL HERE

Official Seal
Notary Public, State of West Virginia
Leigh Tetrick
5402 Westbrook Dr.
Cross Lanes, WV 25313
My Commission Expires February 8, 2027

NOTARY PUBLIC Leigh Tetrick

EXHIBIT A - PRICING PAGE

REQUEST FOR QUOTATION
WV Division of Natural Resources - Wildlife Resources Section
2022 or Current Model Year 15-ton Steel Tracked Excavator

Item No.	Description	INSERT: Make/Model of Item Being Bid	Qty	Unit Cost*
3.1	John Deere Model 130 G LC (Long Carriage) or Equal	VOLVO EC140EL	1	$ 185,122

*Unit Cost MUST include delivery to WMA. See solicitation 6.1 for specification shipping address.

Vendor

Authorized Signature

Date

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Ron Jacobs
(Name, Title)

Ron Jacobs - Sales
(Printed Name and Title)

PO Box 610, Nitro, WV 25143
(Address)

304-755-7788
(Phone Number) / (Fax Number)

rjacobs@ruddequipment.com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Rudd Equipment Company, Inc.
(Company)

Ron Jacobs - Sales
(Authorized Signature) (Representative Name, Title)

Ron Jacobs
(Printed Name and Title of Authorized Representative)

5/10/22
(Date)

304-755-7788 / 304-755-7490
(Phone Number) (Fax Number)

Volvo Construction Equipment
Building Tomorrow

EC140E

Volvo Excavators 13.1-16.2 t / 28,880-35,620 lb 121 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 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

UD Trucks

Volvo Buses

Volvo Construction Equipment

Volvo Penta

Volvo Financial Services

Efficient Effective Performance.

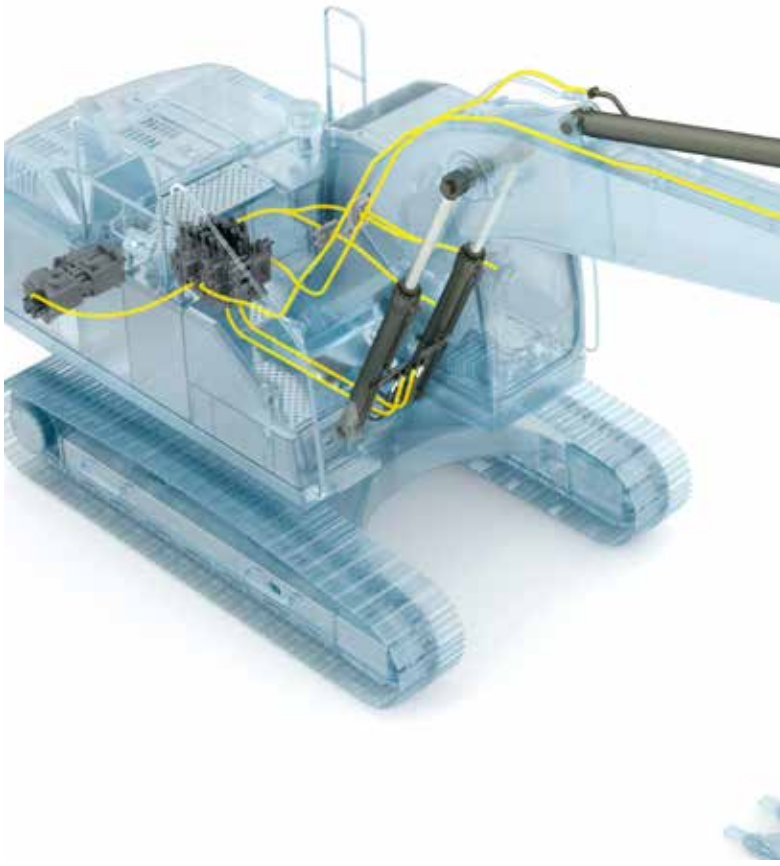
All the EC140E features have been designed to work in harmony to deliver every function with superior efficiency. The machine not only produces maximum uptime it also incorporates the latest fuel efficiency technology, to reduce emissions and consumption, while increasing productivity.

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



Boom float function

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

Main Control Valve and Software

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

Auto engine shutdown

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).

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 Tier 4 Final 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 well-being 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 be replied on.

ROPS

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

Boom and Arm

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

Lower frame

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

Undercarriage

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

Built to last

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

Ultimate tool carrier

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

The Pick of the Bunch.

No customer has one job, so a machine should mirror these requirements. Volvo has listened to customer needs and built a machine in the EC140E that is not only capable of doing a variety of applications but can do them all at an unrivalled consistent quality – easily switching between attachments to maximize uptime and productivity.

Attachment Management System

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

Extra piping

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

Electrical pedal

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

Response mode

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

Routine check-ups.

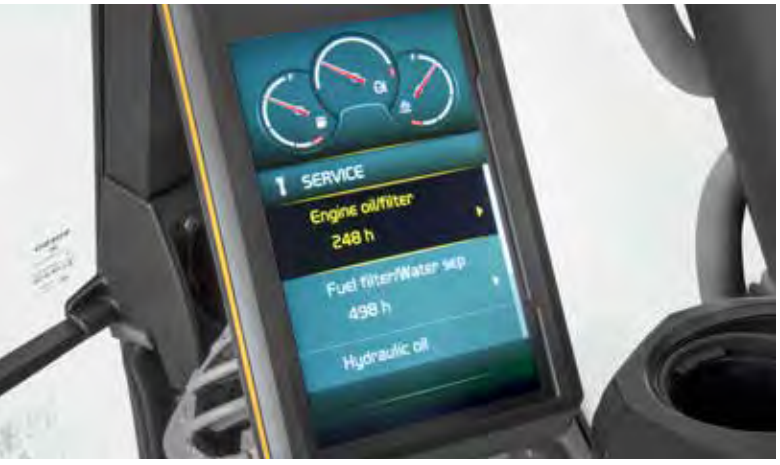
Proactive maintenance is crucial to prolong machine life – this is why making inspections safe and easy is a priority. Volvo have grouped access points together and made them safer to reach to ensure regular checks to maximise machine uptime while reducing the chances of any surprises.

Grouped filters

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

Single layer cooling system

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



Service interval alerts

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

Anti-slip steel plates

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

Service access

Easy access for maintenance means regular checks are completed faster – increasing uptime and driving down total cost of ownership. The E-series features a new convenient and safe access such as guardrails - to check the hydraulic tank, fuel tank and Diesel Exhaust Fluid (DEF). This is in addition to the easily accessible side entry, through a wide compartment door.

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

Breakers HB14, HB15

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

Quick Coupler

Volvo offers a full range of quick couplers, from its dedicated Volvo S-type coupler to the Steelwrist® ones. Both couplers feature Front Pin Lock technology, which allows supreme safety when changing attachments. Those innovative couplers are not only designed to fit perfectly with Volvo excavators but they also 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 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 power for boom lowering can be saved or used for other 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 colour 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 or power max function can all be assigned a short-cut button on the joystick

HMI

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

Bluetooth®

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

Service access

The E-series features a new convenient and safe access - such as guardrails - to check the hydraulic tank, fuel tank and 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 engine boasts more power while reducing both fuel consumption and emissions; delivering superior quality, reliability and durability.

Built to last

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

Grouped filters

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

Adding value to your business.

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to 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.

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 Tier 4 Final 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 air-to-air intercooler, and electronic engine controls to optimize machine performance.
Air Filter: 3-stage with precleaner
Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine		Volvo		D4J
Max power at	r/s / r/min		33.3 / 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	l	in^3	4.04	247
Bore	mm	in	101	3.98
Stroke	mm	in	126	4.96

Electrical system

Well protected high-capacity electrical system. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.
Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage		V		24
Batteries	V / Ah		2 x 12 / 100	
Alternator	V / Ah		28 / 80	
Start motor	V / kW		24 / 5.5	

Service refill capacities

Fuel tank	l	gal	250	66
Hydraulic system, total	l	gal	230	61
Hydraulic tank	l	gal	85	22
DEF tank	l	gal	20	5
Engine oil	l	gal	16	4
Engine coolant	l	gal	28	7
Swing reduction unit	l	gal	3.9	1
Travel reduction unit	l	gal	2 x 2.2	2 x 1

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		12.5
Max. slew torque	kNm	lbf ft	38.8	28,620

Drive

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

Max. drawbar pull	kN	lbf	119	26,680
Max. travel speed	km/h	mph	3.1 / 5.5	1.9 / 3.4
Gradeability		°		35

Undercarriage

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

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

The following important functions are included in the system:

Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

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

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

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

Power boost: All digging and lifting forces are increased.

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

Main pump

Type			2 x variable displacement axial piston pumps	
Maximum flow	l/min	gpm	2 x 124	2 x 33
Pilot pump,				
Type				Gear 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

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 sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

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

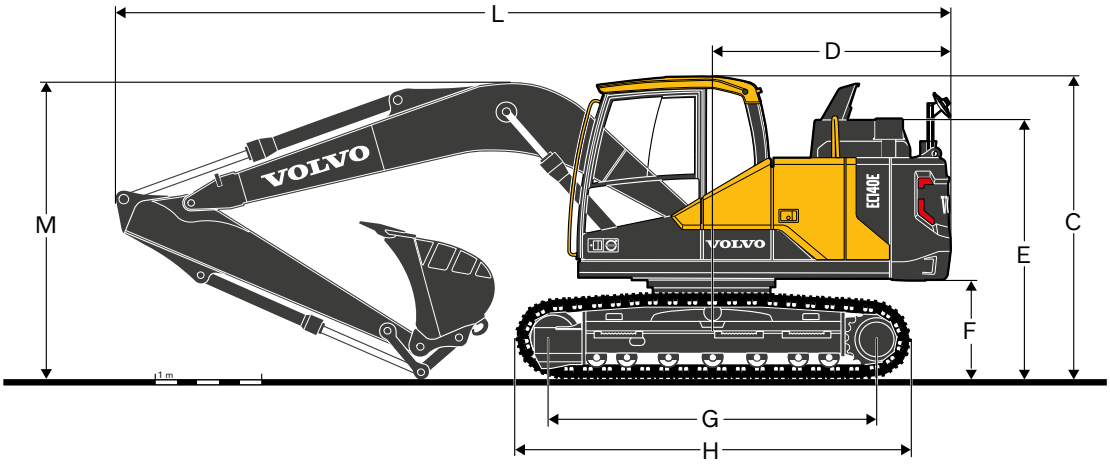
Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

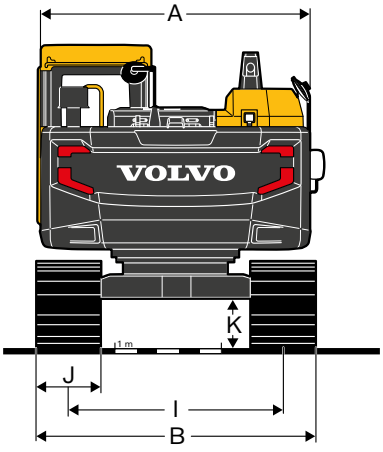
Sound Level

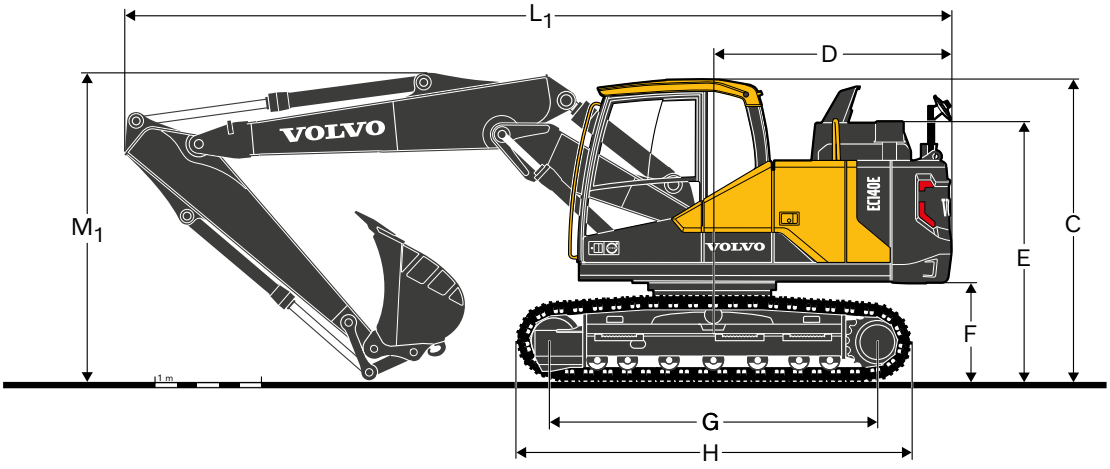
Sound pressure level in cab according to ISO 6396		
L_{pA} (standard)	dB	69
L_{pA} (tropical)	dB	70
External sound level according to ISO 6395, EU Noise Directive 2000/14/EC		
L_{wA} (standard)	dB	100
L_{wA} (tropical)	dB	101

Specifications.

DIMENSIONS





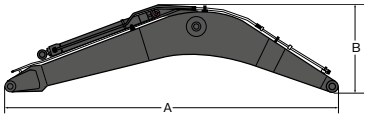


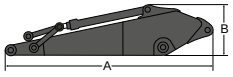
DIMENSIONS

Description		Unit		EC140EL					
Boom (mono & 2-piece)		m, ft in		4.6, 15'1"					
Arm		m	ft in	2.1	6'11"	2.5	8'2"	3	9'10"
A	Overall width of upper structure	mm	ft in	2 490	8'2"	2 490	8'2"	2 490	8'2"
B	Overall width	mm	ft in	2 590	8'6"	2 590	8'6"	2 590	8'6"
C	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"
E	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"	3 040	10'0"
H	Track length	mm	ft in	3 760	12'4"	3 760	12'4"	3 760	12'4"
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"
K	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_1	Overall height of boom	mm	ft in	2 720	8'11"	2 860	9'5"	3 310	10'10"

* Without shoe grouser

$_1$ 2-piece boom



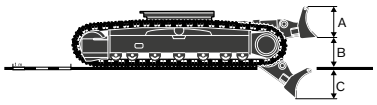


Description		Unit		mono		2-piece	
Boom		m	ft in	4.6	15'1"	4.6	15'1"
A	Length	mm	ft in	4 770	15'8"	4 765	15'8"
B	Height	mm	ft in	1 370	4'6"	1 225	4'0"
	Width	mm	ft in	545	1'9"	545	1'9"
	Weight	kg	lb	1 100	2,430	1 900	4,190

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

Description		Unit							
Arm		m	ft in	2.1	6'11"	2.5	8'2"	3.0	9'10"
A	Length	mm	ft in	2 800	9'2"	3 200	10'6"	2 700	8'10"
B	Height	mm	ft in	710	2'4"	710	2'4"	710	2'7"
	Width	mm	ft in	300	1'0"	300	1'0"	300	1'0"
	Weight	kg	lb	555	1,220	625	1,380	685	1,510

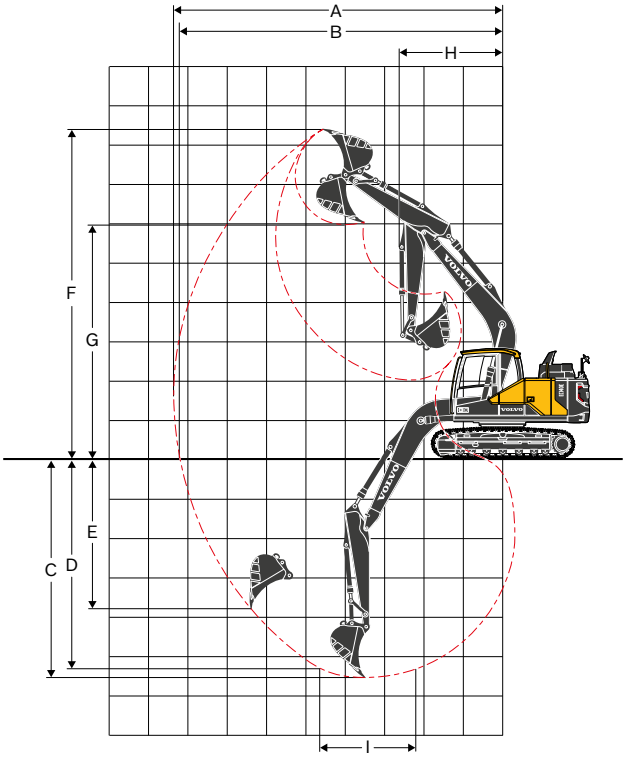
* Includes cylinder, linkage and pin

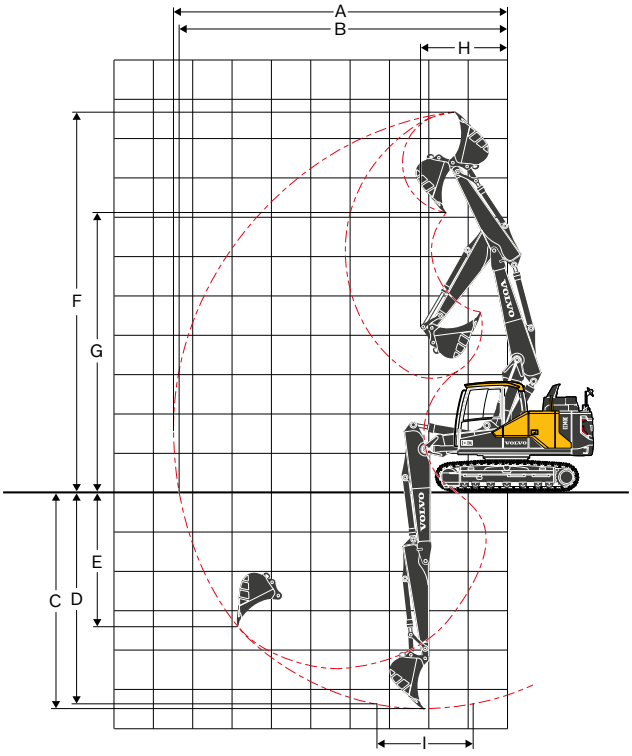


Front dozer blade		Unit			
A	Height	mm	ft in	580	1'11"
	Width	mm	ft in	2 590	8'6"
	Weight	kg	lb	458	1,260
B	Lift height	mm	ft in	480	1'7"
C	Digging depth	mm	ft in	600	2'0"

Specifications.

WORKING RANGES





WORKING RANGES

Description			Unit		EC140EL											
Boom			m, ft in		4.6, 15'1" mono						4.6, 15'1" 2-piece					
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	Max. digging reach		mm	ft in	7 980	26'2"	8 360	27'5"	8 850	29'0"	8 080	26'6"	8 460	27'9"	8 960	29'5"
B	Max. digging reach on 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	Max. digging depth		mm	ft in	5 160	16'11"	5 560	18'3"	6 060	19'11"	5 080	16'8"	5 480	18'0"	5 980	19'7"
D	Max. digging depth (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"
E	Max. vertical wall digging depth		mm	ft in	3 970	13'0"	4 330	14'2"	4 870	16'0"	3 970	13'0"	4 340	14'3"	4 830	15'10"
F	Max. cutting height		mm	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	Max. dumping height		mm	ft in	5 720	18'9"	5 950	19'6"	6 290	20'8"	6 730	22'1"	7 100	23'4"	7 570	24'10"
H	Min. front swing radius		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"
DIGGING FORCES WITH DIRECT FIT BUCKET																
Bucket radius			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"
Breakout force - bucket	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
	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
	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
	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
Tearout force - dipper arm	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
	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
	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
	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
Rotation angle, bucket			°		175		175		175		175		175		175	

MACHINE WEIGHTS AND GROUND PRESSURE

EC140EL			4.6m / 15'1" boom, 2.5m / 8'2" arm, 440kg / 970lb - 540l / 143gal bucket, 2 450kg / 5,400lb counterweight						4.6m / 15'1" 2-piece boom					
Description	**Shoe width**		**Operating weight**		**Ground pressure**		**Overall width**		**Operating weight**		**Ground pressure**		**Overall width**	
	mm	**in**	**kg**	**lb**	**kPa**	**psi**	**mm**	**in**	**kg**	**lb**	**kPa**	**psi**	**mm**	**in**
Without dozer blade														
Triple grouser	500	20	14 190	31,290	42.2	6.1	2 490	8'2"	14 610	32,220	43.1	6.3	2 490	8'2"
	600	24	14 390	31,730	35.3	5.1	2 590	8'6"	14 810	32,660	36.3	5.3	2 590	8'6"
	700	28	14 590	32,170	31.4	4.6	2 690	8'10"	15 010	33,100	32.4	4.7	2 690	8'10"
	750	30	14 770	32,570	29.4	4.3	2 740	9'0"	15 190	33,490	30.4	4.4	2 740	9'0"
Triple grouser (HD)	600	24	14 460	31,880	36.3	5.3	2 590	8'6"	14 880	32,810	37.3	5.4	2 590	8'6"
Rubber grouser	500	20	14 230	31,380	42.2	6.1	2 490	8'2"	14 650	32,300	43.1	6.3	2 490	8'2"
With dozer blade														
Triple grouser	500	20	15 130	33,360	45.1	6.5	2 490	8'2"	15 550	34,290	46.1	6.7	2 490	8'2"
	600	24	15 330	33,800	38.2	5.5	2 590	8'6"	15 750	34,730	39.2	5.7	2 590	8'6"
	700	28	15 530	34,240	33.3	4.8	2 690	8'10"	15 950	35,170	34.3	5.0	2 690	8'10"
	750	30	15 710	34,640	31.4	4.6	2 740	9'0"	16 130	35,570	32.4	4.7	2 740	9'0"
Triple grouser (HD)	600	24	15 400	33,960	38.2	5.5	2 590	8'6"	15 820	34,880	39.2	5.7	2 590	8'6"
Rubber grouser	500	20	15 170	33,450	45.1	6.5	2 490	8'2"	15 590	34,380	46.1	6.7	2 490	8'2"

BUCKET SELECTION GUIDE

Bucket type		Capacity		Cutting width		Weight		Teeth	EC140EL					
									600mm / 20' shoe, 2 100kg / 4,630lb counterweight			600mm / 20' shoe, 2 450kg / 5,400lb counterweight		
									4.6m / 15'1" boom					
		m³	**yd³**	**mm**	**ft**	**kg**	**lb**	**EA**	**2.1m / 6'11" arm**	**2.5m / 8'2" arm**	**3.0m / 9'10" arm**	**2.1m / 6'11" arm**	**2.5m / 8'2" arm**	**3.0m / 9'10" arm**
Direct fit Buckets	**General purpose**	0.66	0.86	1 050	41.34	480	1,059	4	C	C	C	C	C	C
		0.77	1.01	1 200	47.24	541	1,193	5	C	C	B	C	C	C
		0.25	0.33	450	17.72	330	729	3	C	C	C	C	C	C
		0.33	0.43	600	23.62	361	797	3	C	C	C	C	C	C
		0.42	0.55	750	29.53	392	864	3	C	C	C	C	C	C
		0.54	0.71	900	35.43	440	971	4	C	C	C	C	C	C
	Heavy duty	0.25	0.33	450	17.72	320	705	3	D	D	D	D	D	D
		0.33	0.43	600	23.62	352	777	3	D	D	D	D	D	D
		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/m³	lb/yd³	
A	1 200 - 1 300	2,000 - 2,200	Coal, Caliche, Shale
B	1 400 - 1 600	2,300 - 2,700	Wet earth and clay, Limestone, Sandstone
C	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 end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		1.5m, 5 ft		3.0m, 10 ft		4.5m, 15 ft		6.0m, 20 ft		Max. Reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6m / 15'1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	3 390	4.9 m
Arm: 2.1m / 6'11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	7,710	15.8 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 450	6.0 m
CWT: 2 100kg / 4,630lb	15 ft	lb	-	-	-	-	*7,600	*7,600	-	-	*7,850	5,470	19.5 ft
	3 m	kg	-	-	*6 230	*6 230	*4 330	3 700	3 710	2 410	3 220	2 090	6.5 m
	10 ft	lb	-	-	*13,270	*13,270	*9,380	7,950	7,950	5,160	7,130	4,620	21.4 ft
	1.5 m	kg	-	-	-	-	*5 390	3 490	3 620	2 320	3 040	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	5 410	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: 4.6m / 15'1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	2 920	5.4 m
Arm: 2.5m / 8'2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	6,600	17.5 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 470	*3 170	2 210	6.4 m
CWT: 2 100kg / 4,630lb	15 ft	lb	-	-	-	-	*6,740	*6,740	*7,080	5,310	*7,000	4,920	20.9 ft
	3 m	kg	-	-	*5 330	*5 330	*3 950	3 720	*3 490	2 410	2 950	1 910	6.9 m
	10 ft	lb	-	-	*11,370	*11,370	*8,570	8,030	*7,630	5,190	6,520	4,230	22.7 ft
	1.5 m	kg	-	-	-	-	*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: 4.6m / 15'1"	6 m	kg	-	-	-	-	-	-	*2 860	2 490	*2 810	2 460	6.0 m
Arm: 3.0m / 9'10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	5,540	19.6 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	2 490	*2 640	1 940	6.9 m
CWT: 2 100kg / 4,630lb	15 ft	lb	-	-	-	-	-	-	*6,140	5,360	*5,830	4,310	22.7 ft
	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	6 420	*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	kg	*7 370	*7 370	*9 080	5 930	5 300	3 210	3 460	2 170	3 420	2 150	6.0 m
	-10 ft	lb	*16,640	*16,640	*19,640	12,760	11,400	6,920	-	-	7,620	4,790	19.7 ft
	-4.5 m	kg	-	-	*7 210	6 140	-	-	-	-	*4 480	3 360	4.5 m
	-15 ft	lb	-	-	*15,330	13,220	-	-	-	-	*9,920	7,690	14.4 ft
Boom: 4.6m / 15'1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	*3 500	4.9 m
Arm: 2.1m / 6'11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	*7,730	15.8 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 610	6.0 m
CWT: 2 450kg / 5,400lb	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	kg	-	-	-	-	*5 390	3 700	3 800	2 470	3 220	2 100	6.7 m
	5 ft	lb	-	-	-	-	*11,650	7,990	8,200	5,330	7,100	4,630	22.0 ft
	0 m	kg	-	-	*5 400	*5 400	5 730	3 560	3 730	2 410	3 300	2 140	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

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

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		1.5m, 5 ft		3.0m, 10 ft		4.5m, 15 ft		6.0m, 20 ft		Max. Reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6m / 15'1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	3 100	5.4 m
Arm: 2.5m / 8'2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	7,010	17.5 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 630	*3 170	2 350	6.4 m
CWT: 2 450kg / 5,400lb	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	3 110	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: 4.6m / 15'1"	6 m	kg	-	-	-	-	-	-	*2 860	2 650	*2 810	2 620	6.0 m
Arm: 3.0m / 9'10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	5,890	19.6 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	2 650	*2 640	2 070	6.9 m
CWT: 2 450kg / 5,400lb	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 end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		1.5m, 5 ft		3.0m, 10 ft		4.5m, 15 ft		6.0m, 20 ft		Max. Reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6m / 15'1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	*3 500	4.9 m
Arm: 2.1m / 6'11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	*7,730	15.8 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 770	6.0 m
CWT: 2 100kg / 4,630lb	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	5,840	*8,170	5,240	21.4 ft
	1.5 m	kg	-	-	-	-	*5 390	3 950	*4 170	2 630	*3 910	2 230	6.7 m
	5 ft	lb	-	-	-	-	*11,650	8,520	*9,100	5,670	*8,610	4,920	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: 4.6m / 15'1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	*3 210	5.4 m
Arm: 2.5m / 8'2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	*7,080	17.5 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 790	*3 170	2 500	6.4 m
CWT: 2 100kg / 4,630lb	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	2 170	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	kg	-	-	*5 970	*5 970	*5 920	3 800	*4 400	2 540	*3 740	2 080	6.9 m
	0 ft	lb	-	-	*13,890	*13,890	*12,830	8,190	*9,560	5,490	*8,260	4,600	22.7 ft
	-1.5 m	kg	*4 550	*4 550	*9 610	6 930	*6 220	3 730	*4 520	2 510	*4 150	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: 4.6m / 15'1"	6 m	kg	-	-	-	-	-	-	*2 860	2 810	*2 810	2 770	6.0 m
Arm: 3.0m / 9'10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	6,240	19.6 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	*2 780	*2 640	2 200	6.9 m
CWT: 2 100kg / 4,630lb	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	lb	-	-	*15,710	*15,710	*10,010	8,590	*8,020	5,640	*6,070	4,050	24.9 ft
	0 m	kg	-	-	*6 510	*6 510	*5 620	3 770	*4 190	2 510	*3 040	1 850	7.4 m
	0 ft	lb	-	-	*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: 4.6m / 15'1"	6 m	kg	-	-	-	-	*3 320	*3 320	-	-	*3 500	*3 500	4.9 m
Arm: 2.1m / 6'11"	20 ft	lb	-	-	-	-	*7,470	*7,470	-	-	*7,730	*7,730	15.8 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 470	*3 470	-	-	*3 570	2 930	6.0 m
CWT: 2 450kg / 5,400lb	15 ft	lb	-	-	-	-	*7,600	*7,600	-	-	*7,850	6,540	19.5 ft
	3 m	kg	-	-	*6 230	*6 230	*4 330	*4 330	*3 750	2 870	*3 710	2 520	6.5 m
	10 ft	lb	-	-	*13,270	*13,270	*9,380	*9,380	*8,210	6,200	*8,170	5,570	21.4 ft
	1.5 m	kg	-	-	-	-	*5 390	4 180	*4 170	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	2 730	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

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		1.5m, 5 ft		3.0m, 10 ft		4.5m, 15 ft		6.0m, 20 ft		Max. Reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	
Boom: 4.6m / 15'1"	6 m	kg	-	-	-	-	*2 840	*2 840	-	-	*3 210	*3 210	5.4 m
Arm: 2.5m / 8'2"	20 ft	lb	-	-	-	-	*6,350	*6,350	-	-	*7,080	*7,080	17.5 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	*3 080	*3 080	*3 190	2 950	*3 170	2 650	6.4 m
CWT: 2 450kg / 5,400lb	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	4 040	*4 400	2 710	*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	3 120	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: 4.6m / 15'1"	6 m	kg	-	-	-	-	-	-	*2 860	*2 860	*2 810	*2 810	6.0 m
Arm: 3.0m / 9'10"	20 ft	lb	-	-	-	-	-	-	-	-	*6,250	*6,250	19.6 ft
Shoe: 600mm / 24"	4.5 m	kg	-	-	-	-	-	-	*2 780	*2 780	*2 640	2 330	6.9 m
CWT: 2 450kg / 5,400lb	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 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, longlife oil 46

Frame

- Access way with handrail
- Tool storage area
- Punched metal anti-slip plates
- Under cover (heavy duty)
- 2 450kg / 5,400lb 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 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
  - Windshield wiper with intermittent feature
- Rear view camera
- Master key

Undercarriage

- Under cover (heavy duty)
- Hydraulic track adjusters
- Greased and sealed track link
- Track Guard
- 600mm / 24" with triple grousers

Digging equipment

- 4.6m / 15'1" mono boom
- 2.5m / 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: 30l/min / 9gpm

Electric

- Extra work lights (Halogen or LED):
  - Cab-mounted 3
  - Counterweight-mounted 1
- Anti-theft system
- Rotating warning beacon

OPTIONAL EQUIPMENT

Hydraulic system
Boom hose rupture valve with overload warning device
Arm hose rupture valve
Boom float function with HRV
Hydraulic piping:
Work tool management system (up to 20 programmable memories)
Breaker & shear, 1 and 2 pump flow
Slope & rotator (40lpm / 11gpm or 60lpm / 16gpm)
Extra for slope & rotator
Grapple
Oil leak (drain) line
Quick coupler
Breaker & shear pressure pre-setting
Volvo hydraulic quick coupler S6, S6 without hook
Volvo hydraulic quick coupler VQC-HU,DR14 / RQC-HD, Steelwrist S60
Hydraulic oil, biodegradable 46
Hydraulic oil, ISO VG 32,42, 68
Hydraulic oil, longlife oil 32, 68

Cab and interior
Fabric seat without heater
Fabric seat with heater and air suspension
Control joysticks with semi-long
Control joysticks with 3 switch & 1 propotional
Opening top hatch

Cab and interior
Cab-mounted falling object guard (FOG)
Cab-mounted falling object protective structure (FOPS)
Rain shield
Side view camera
Smoker kit (ashtray and lighter)
Safety net for front window
Sunlight protection, roof (steel)
Lower wiper with intermittent control
Anti-vandalism kit
Specific key

Frame
2 100kg / 4,630lb counterweight

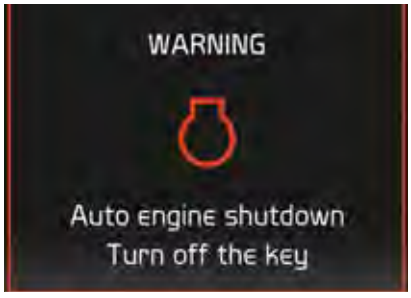
Undercarriage
Dozer blade
Full track guard
500mm / 20", 600mm / 24", 600mm/ 24" HD, 700mm / 28", 750mm / 30" shoe with triple grousers and 500mm / 20" with rubber grousers

Digging equipment
4.6m / 15'1" 2-piece boom
2.1m / 6'11", 3.0m / 9'11" arm
Linkage with lifting eye

Service
Tool kit, daily maintenance
Tool kit, full scale

Selection of Volvo optional equipment

Auto engine shutdown



Two-piece boom

Diesel coolant heater

LED lights

Fuel fill pump

Dozer blade

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice.
The illustrations do not necessarily show the standard version of the machine.

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