

**BID SUBMITTAL FORM**  
**Alabama County Joint Bid Program**  
**BID ITEM – 19 TON WHEELED EXCAVATOR**

Company Name: Cowin Equipment Company Inc.

Address: 4325 Northern Blvd  
Montgomery Al 36110

Bid Submitted by: John Edwards  
(Name of company representative)

Title: Governmental Sales Manager E-mail address: jedwards@cowin.com

Phone: 850-685-7055 Fax: 334-834-2272

By submitting this bid, we agree:

Initials

JE

The equipment model number identified below meets the bid specs for this bid item

That the bid price will be honored for all counties for the period from **January 1, 2026** to **June 30, 2026**.

JE

The equipment will be delivered at the bid price to all counties participating in the joint bid program

JE

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program

JE

The bid is accompanied by a current catalog or model specification document for the model number identified below

JE

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications

JE

The bid includes the E-Verify documentation required by Alabama law

JE

We comply with, and if awarded the contract, we will comply with, the requirements of Section 41-16-50 and Sections 41-16-160 to -166, Code of Alabama 1975.

JE

If awarded the bid, a performance bond will be provided upon request

JE

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the **Standard Machine** and all available options for the machine bid.

JE

## 19 TON WHEELED EXCAVATOR

Total Bid Price for Standard Machine: \$ **\$262,459.00**

(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)\*

Freight Preparation and Delivery: \$ **\$1,500.00**  
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ **\$367,944**

Equipment Model #: **Volvo EWR170**

Description: **19 ton Wheeled Excavator**

Signature of company representative submitting bid: *John Edwards*

Title: **Governmental Sales Manager**

\* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include freight preparation, delivery and standard warranty cost. Freight preparation and delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

## BID SUBMITTAL FORM: OPTION COST SHEET 19 TON WHEELED EXCAVATOR

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine\*

The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) with **any available Options** for the Standard Machine

JE

JE

Equipment Model #: Volvo EWR170

Description: 19 ton Wheeled Excavator

Signature of company representative submitting bid: John Edwards

Title: Governmental Sales Manager

**\*Note:** The percent difference between the Manufacturer's Suggested Retail Price Sheet (MSRP) for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

# BID SPECIFICATIONS FOR 19 TON WHEELED EXCAVATOR

## **GENERAL**

These specifications shall be construed as the minimum acceptable standards for a **19-ton wheeled excavator**. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. **The 19-ton wheeled excavator must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.**

The use of specific names and numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of the counties participating in this joint bid.

## **BID SUBMITTAL FORM**

Each bidder must submit his or her bid on the bid submittal form included in the invitation to bid package. All written warranties to be submitted shall be attached to the bid submittal form.

## **BID PRICE**

The price bid shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

## **MANUALS**

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

## **REPLACEMENT PARTS AVAILABILITY**

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment. If any replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs to its machine.

## **WARRANTY**

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes  No

Page #

or

Attachment

**WEIGHT**

Minimum **35,000** lbs.

Yes  No   
Page # 17

**ENGINE**

**Four (4)** cylinders, turbo charged, diesel engine with minimum of **140** Horsepower. Displacement minimum of **245** cu. In.

Yes  No   
Page# 17

Oil and fuel filters of spin-on type, vertically mounted.

Yes  No   
Page # Attached

Automatic engine speed control

Yes  No   
Page # 37

**Engine designed and produced by equipment manufacturer**

Yes  No   
Page # 17

**TRANSMISSION**

Three speed hydrostatic, all-wheel drive

Yes  No   
Page # 17

Maximum travel speed not less than **20** mph

Yes  No   
Page # 17

**Three (3):** Modes: Travel, Work and Custom

Yes  No   
Page # 17

**HYDRAULICS**

Variable displacement, load sensing hydraulic system with pressure compensated valves.

Yes  No   
Page # 17

Minimum **60**-gallon hydraulic oil system with min of 70 gpm of flow

Yes  No   
Page # 17

Travel circuit maximum pressure not less than **5,200** psi

Yes  No   
Page # 17

Implement circuit maximum pressure not less than **5,200** psi

Yes  No   
Page # 17

High pressure hydraulics circuit capable of powering high speed cutting attachment with piping And quick Disconnects and min flow of 63 gpm.

Yes  No   
Page# 17

## AXLES/BRAKES

Oscillating Steering Axle with a min of 9 degrees of oscillation

Yes  No   
Page # 17

Minimum 13" ground clearance

Yes  No   
Page # 19

Minimum tractive force/drawbar pull 24,954 lb.

Yes  No   
Page # 17

## ELECTRONICS, ELECTRONIC CONTROLS, ELECTRIC SYSTEM

Electronic fluid level check at machine start-up with operator warning for the following fluids: engine coolant, hydraulic oil

Yes  No   
Page # 37

**24-volt** electrical starting system with back up alarm

Yes  No   
Page # 17

Alternator rated at not less than **120 amps**

Yes  No   
Page # 17

Central diagnostic function to record system parameters and faults

Yes  No   
Page # 17

Master electrical disconnect switch that cuts all electrical power to all circuits

Yes  No   
Page # 17

## BOOM STICK AND PERFORMANCE

**2-piece** articulating boom with **8'6"** minimum stick length

Yes  No   
Page # 38

Boom shall have ability to swing **35 degrees** left and **35 degrees** right of center

Yes  No   
Page # 23

Minimum reach at ground level not less than **30' 0"**

Yes  No   
Page # 22,23

Maximum digging depth not less than **18'-11"**

Yes  No   
Page # 22,23

Maximum bucket digging force with standard trenching bucket not less than **28,326 lbs.**

Yes  No   
Page # 22

Maximum lifting capacity at ground level from machine at max reach  
With outriggers down and blade down shall be a min of 7,100 lbs. across tires

Yes  No   
Page # 22

**CAB**

Road, tail, and turn lights

Yes  No   
Page # 38

Deluxe High Back Suspension seat with heated base

Yes  No   
Page # 38

Outrigger and Blade controls shall have the option to move independently

Yes  No   
Page # 17

Factory installed radio and USB port and 12 Volt plug

Yes  No   
Page # 37,38

Factory installed automatic climate control with easy removable primary filter

Yes  No   
Page # 37

All hydraulic controls locked out when console is in raised position.

Yes  No   
Page # 37

Shall have easy to read 8.3" LCD monitor for machine function and camera views.

Yes  No   
Page # 17

**GENERAL:**

Fuel capacity not less than **52 gal.**

Yes  No   
Page # 17

Maximum slew radius shall be no more than 5'-10".

Yes  No   
Page # 19

Wheelbase: **8' 6"**

Yes  No   
Page # 19

Shall be equipped with bolt on front mounted blade and bolt on rear outriggers

Yes  No   
Page # 38

Tires: 10.00X20 dual wheels with Fenders

Yes  No   
Page # 38

Unit shall be equipped with rotating beacons on cab and counterweight

Yes  No   
Page # 38

Unit shall have cameras mounted on the right side and rear of machine

Yes  No   
Page # 38

Hydraulic quick coupler that does not increase tip radius

Yes  No

Machine shall have a boom suspension system      Page# 38  
Yes  No         
Page # 38

Machine shall have boom float      Yes  No         
Page # 38

Machine shall have reversible engine cooling fan      Yes  No         
Page # 38

Machine shall have boom anti rupture valves      Yes  No         
Page # 38

LED Work lights front, back and side of the cab 2 each      Yes  No         
Page # 38

Tool box mounted on lower frame      Yes  No         
Page # 38

**Bucket:**

**Standard with no bucket. Buckets will be considered optional attachments.**

# **INVITATION TO BID HEAVY EQUIPMENT**

## **NOTICE OF BID OPENING**

**NOTICE IS HEREBY GIVEN** that the Association of County Commissions of Alabama, which administers the Alabama County Joint Bid Program on behalf of Alabama's county governing bodies, shall receive and open bids for the purchase of zero (0) or more items of heavy road equipment at its office located at 2 North Jackson Street, Montgomery, Alabama, at **10:00 a.m. on Tuesday, November 18, 2025**. Bid specifications are available at <http://www.alabamacounties.org/heavy-equipment/> for each of the following items:

Track Mount Excavators  
Compact Excavators  
Mini Track Excavators  
Wheeled Excavators  
Highway Speed Truck Excavators  
Motor Graders  
Wheel Loaders  
Heavy Duty Dump Chassis  
Lowboy Tractors  
Lowboy Trailers  
Half Round End Dump  
Skid Steer Loader and Attachments  
Ride-on Industrial Boom Mowers  
Rubber Tire Roller  
Vibratory Roller

One-man Pothole Patchers  
Trailer Mount Mastic Patcher/Crack Sealer  
Trailer Mounted Patcher – Diesel  
Trailer Mounted Patcher – Air Compressor/Tools  
Chip Spreader  
Asphalt Distributor  
Asphalt Milling Attachments  
Asphalt Storage Tanks  
Backhoes  
Bulldozers  
Dump Bodies  
Road Wideners  
Ride On Industrial Boom Mowers

Time is of the essence in submitting bids and only bids received in the Association office by 10:00 a.m. Central Time on Tuesday, November 18, 2025 will be opened and considered. Bidders and any other interested individuals are invited to attend the bid opening.

## **NOTICE OF BID OPENING PROCEDURES**

All bids for Heavy Equipment will be opened and the name(s) of the bidders read aloud on the morning of the bid opening on Tuesday, November 18, 2025 at 10:00 a.m. at 2 North Jackson Street, Montgomery, AL. The specifics of each bid submitted will be compiled by the Association staff thereafter and will be available, upon written or emailed request, one week after the bid opening. Requests should be emailed to [jointbid@alabamacounties.org](mailto:jointbid@alabamacounties.org).

## **THE INVITATION PACKAGE**

The invitation package for each item to be bid includes: this invitation to bid, the written bid specifications for the particular item of heavy road equipment, and a Bid Submittal Form to be used in submitting a bid for that particular item. Bidders should verify that they have received all pages of the invitation package. If there are any omissions, the bidder should contact Kenya Howard in the Association office by mail, fax, or e-mail ([jointbid@alabamacounties.org](mailto:jointbid@alabamacounties.org)) to request missing pages. It is the responsibility of the bidder to make this request in sufficient time to prepare and submit the bid in time for the bid opening. Bidders should carefully read and comply with all parts of the invitation package, including all attachments and/or any addendum.

## **PREPARING AND SUBMITTING BIDS**

All bids must be typed or handwritten in ink on the attached Bid Submittal Form. **The completed Bid Submittal Form shall be placed in front of and separated from all other documents included in the bid packet, such that it will be the first document viewed upon opening the bid packet.**

Bids submitted in pencil and bids not submitted on the Bid Submittal Form **will not** be considered. All bids shall include a current catalog or model specification document for the equipment model number being offered for consideration. Bids submitted without such documentation **will not** be considered. Only information contained on the attached Bid Submittal Form and in the model specification document will be considered in evaluating bids.

Each separate requirement in the bid specification includes a block for indicating whether or not the item bid meets the specification. The bidder shall indicate compliance with each requirement by checking "Yes" or "No" in the block to the right of each bid specification. In addition, the bidder shall indicate the page number in the supplied manufacturer's equipment literature on which compliance with the specification can be verified. Failure to complete this portion of the bid form may result in the subject bid not being considered.

Each bid for one of the heavy equipment items included in the bid package must be submitted on the Bid Submittal Form for that item and forwarded in a separate envelope with the bid item and item number clearly identified on the outside of the envelope. Envelopes containing a "no bid" shall also include the words "NO BID" on the outside of the envelope. Facsimiles and e-mails will not be accepted. Bids submitted by "Express/Overnight" services must be in a separate inner envelope or package sealed and identified as stated above. All bids must be received in the Association office prior to the bid opening. Bids received after the deadline will be returned unopened.

The County Joint Bid Program reserves the right to require a performance bond from successful bidders as permitted under Alabama law. However, **no bid bond is required for this bid offering.**

All bids should be mailed or hand-delivered to:

**ATTN: Alabama County Joint Bid Program  
Association of County Commissions of Alabama or ACCA  
2 North Jackson Street, FL 7, Montgomery, Alabama 36104 (Physical Address)  
P.O. Box 5040, Montgomery, Alabama 36103 (Mailing Address)**

## **BID SPECIFICATIONS**

Please note that each piece of heavy equipment available for bid may include several different sizes and categories of machines. You should read each set of specifications very carefully as the differences vary depending upon the piece and size of equipment.

The award will be based on the total cost of the **Standard Machine** bid by the lowest responsible bidder. Each Bid shall include a **Manufacturer's Suggested Retail Price Sheet (MSRP)** for each machine bid. The percent difference between the Manufacturer's Suggested Retail Price (MSRP) for the standard machine as specified by these bid specifications and the actual price bid by the vendor will be calculated and that percentage discount shall be applied to any options an individual county may choose to add to the machine.

**Both parties agree that the Vendor SHALL extend to ALL counties purchasing this equipment any factory discounts, incentives or rebates that become available during the Contract Period; provided that there are no alterations from the bid specifications for this item required in order to receive the discount, incentive, or rebate. FURTHER, BOTH PARTIES AGREE THAT THE VENDOR SHALL EXTEND TO ALL COUNTIES PURCHASING THIS EQUIPMENT THE SAME PURCHASE PRICE AND DISCOUNTS AS THEY ARE AWARDED ON ANY OTHER NATIONAL PURCHASING COOPERATIVE APPROVED BY THE DEPARTMENT OF EXAMINERS OF PUBLIC ACCOUNTS FOR USE BY ALABAMA COUNTIES.**

Once the bids have been awarded, any county participant purchasing under this program may, at its discretion, add any of the vendor's available options at the same discount off the Manufacturer's Suggested Retail Price Sheet as was applied to the Standard Machine Price Bid.

Any use of specific names and/or model numbers in the attached specifications is not intended to restrict the bidder or any seller or manufacturer, but is included solely for the purpose of indicating the type, size, and quality of materials, product services, or equipment considered best adapted to the use of the counties participating in the joint bid program.

## **ACQUISITION AND FINANCING OPTIONS**

The awarded Vendor will provide the equipment, including any options required by the purchaser, at the awarded price as contracted through the Joint Bid Program. The purchaser may secure its own financing to acquire the equipment or execute any financial options available under Alabama law with the awarded Vendor in order to acquire the equipment.

## **BIDDER QUALIFICATIONS**

All bidders and all program participants must be in compliance with any applicable federal, state, county and municipal laws, regulations, resolutions and ordinances, including but not limited to, licensing, permitting, and taxation requirements. All bidders should be prepared to submit evidence or documentation as proof that they are properly licensed and permitted under any applicable laws upon request. Such evidence or documentation may be submitted with the bid. **Additionally, all bidders shall provide proof that they are in compliance with the E-Verify requirements of Alabama's Immigration Law (Ala. Code § 31-13-1 *et seq.*). All bidders shall also affirm that they are in compliance with, and will comply with, Alabama's anti-boycott law (Ala. Code § 41-16-5) and anti-economic boycott law (Ala. Code § 41-16-160 *et seq.*).**

## **BID AWARD**

The Houston County Commission will serve as the awarding authority for all bids and will award all contracts at a regular meeting of the Houston County Commission. Any and all bids submitted in compliance with this invitation to bid shall be considered, and award will be made to the lowest responsible bidder meeting bid specifications as determined by the awarding authority in compliance with Alabama law. All bids will be reviewed and evaluated by a committee created for that purpose, which committee will make comments and recommendations to the awarding authority regarding the award. All factors contained in each invitation package will be evaluated in determining the successful bidder, and any omissions of the stated requirements may be cause for rejection of the bid submitted. The awarding authority reserves the right to reject any and all bids, to waive any informality in bids, and to accept in whole or in part such bid or bids solely at its discretion.

**The contract period will be six (6) months with an option to renew each six (6) months not to exceed a period of three (3) years under identical price, terms, and conditions upon the mutual consent of the vendor and the awarding authority.** Any renewal contract shall be approved in writing by the vendor and the awarding authority no later than **60 days** prior to the expiration of the existing contract.

## **CONTACT REGARDING BIDS AND INVITATION**

Contact initiated by a potential bidder with any county official, county employee, or member of the Association staff shall only be as specifically set out in this Invitation to Bid. Any questions related to the bid or the County Joint Bid Program shall be directed to Association staff in writing under the procedures set out in this Invitation to Bid. Additionally, a bidder may contact the Association in writing to request an appointment to review bid specifications following the bid opening. However, there shall be no communication with any county official or county employee regarding this bid between the date of this invitation and the date of bid award. Any contact other than as set out here shall be deemed as an attempt to unduly influence the bid award, and shall be grounds for rejection of the bid submitted by the bidder initiating such other contact.

Any questions or problems related to downloading or obtaining copies of this Invitation to Bid should be directed to Kenya Howard at [jointbid@alabamacounties.org](mailto:jointbid@alabamacounties.org) or 334-263-7594.

Any other questions or requests for additional information regarding this invitation or the bid specifications shall be submitted **in writing** no later than five (5) days prior to bid opening to:

**ATTN: Patrick McDougald  
Association of County Commissions of Alabama  
P.O. Box 5040  
Montgomery, Alabama 36104**

**OR**

**Patrick McDougald  
Email: [pattymackdaddy@gmail.com](mailto:pattymackdaddy@gmail.com)**

## EWR170E MSRP

Sales Code	Description	MSRP
EWR170E	Volvo EWR170E GPE Wheel Excavator	\$270,148
XW10125	2-piece boom	\$20,318
XW10212	Arm, 8'6" (2.6m)	\$6,816
XW10310	Linkage w/o lifting eye	\$0
XW20111	Twin 10.00 16PR Bridgestone	\$8,810
XW20310	Stone protect.rings T/wheels	\$263
XW20653	Blade front par, OR rear, bolt	\$21,518
XW20810	Tool box left hand side (including steps)	\$817
XW20910	Axles Standard 8'4" (2.55m)	\$1,373
XW21010	Axle locking plate 15mm	\$0
XW30113	Engine NA (MY 2019)	\$0
XW30212	Tropical cooling.	\$0
XW30712	35 km/h (22 mph) Equipment	\$0
XW40110	CareCab w/ opening hatch	\$549
XW40212	Seat, air suspension with heater	\$1,460
XW40313	Seat belt, 3 inch retractable	\$0
XW40412	Joystick, proportional	\$2,798
XW40714	Radio MP3&USB&Bluetooth	\$0
XW41114	Dust net for radiator and oil cooler	\$0
XW50111	Halogen work lights, mono boom	\$174
XW50152	7 work lights LED	\$812
XW50113	Halogen work lights, cab front	\$236
XW50116	Travel alarm w/ 10 sec delay	\$0
XW50126	Standard travel lights, LED	\$404
XW50138	FLASHING BEACON CAB LED	\$222
XW50139	Add. Flash. Beacon CWT LED	\$467
XW50128	Additional camera on right hand	\$0
XW50213	Electrical center passage, 18 channels	\$1,155
XW50418	CareTrack, GSM/Satellite	\$0
XW50611	CareTrack Connectivity 4 yr Subscription	\$0
XW60116	Hydraulic long life oil ISO VG46	\$1,214
XW60245	X1, Breaker/Shear Piping	\$1,119
XW60615	Hydraulic proportional pedal	\$185
XW60411	X1 flow & pressure control	\$891
XW60832	Quick fit piping, SQF	\$1,573
XW60910	Pilot control pattern change	\$1,665
XW60912	Boom float hydraulics	\$1,965
XW60929	Boom suspension system	\$6,071
XW70322	Manual, English	\$0
NMX14582	Reversible cooling fan_	\$6,086
XW70344	Manual, safety	\$0
XW80115	Counterweight standard (9,920 lbs)	\$0
XW8350164	SQF S60 hydraulic coupler w/safety hook	\$4,966
XW80342	Frame Lifetime Warranty	\$0
XW8297918	No bucket w/ pins	\$0
XW50144	VSV(Volvo Smart View) for IC	\$3,871
	<b>MSRP Total</b>	<b>\$367,944</b>

Volvo Construction Equipment  
Building Tomorrow



# EWR150E, EWR170E

Volvo Excavators 15.4-17.9 t / 33,950-39,460 lb 141 hp, 17.9-19.2 t / 39,570-42,330 lb 154 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.

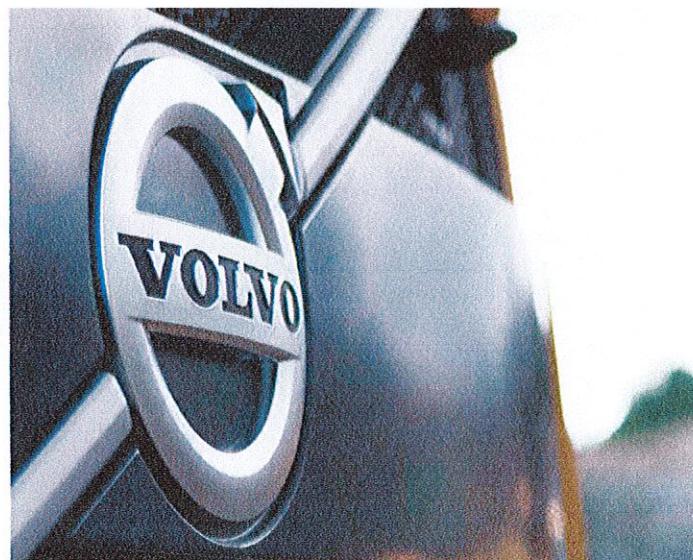
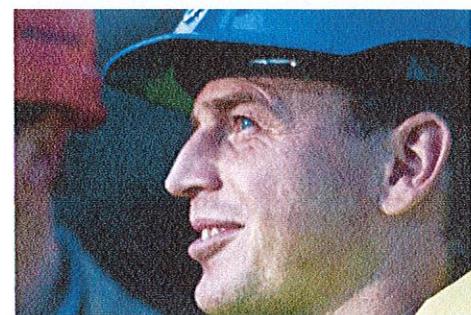
The strength of our dealer network is enhanced with extensive individualized product support training at our best-in-class Customer Center in Shippensburg and through hands-on training. Using a great Product Demonstration Center featuring a dedicated area for most common applications, visitors operate 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.

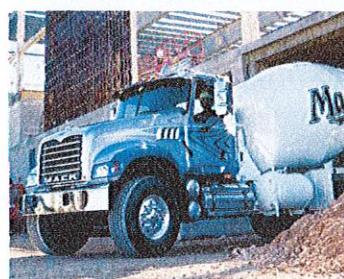




Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

# Class-leading short swing machine

The EWR150E now has a bigger brother – the EWR170E – delivering everything and more that you would expect from an E-Series Volvo excavator. Work and perform in narrow and confined spaces with Volvo's short swing radius wheeled machines, featuring one of the shortest tail swing on the market.

## Controllability

Take on any application with the improved load-sensing hydraulic system that allows maximum utilization of available engine power, increasing controllability and responsiveness.



## EWR150E – Choice of undercarriage

Concerned about machine weight? Select the 15.2 t (33,509 lb) welded undercarriage, with radial blade and EW140 class drivetrain for the lightest possible configuration. For heavy duty work, go with the bolted undercarriage with parallel blade, bolted outriggers and EW160-class drivetrain for a 17.9 t (39,432 lb) – up to 19.4 t (42,768 lb) machine with 30% higher drawbar pull.



## EWR170E – Standard or wide axles

To boost stability, the EWR170E is optionally equipped with a 2 750 mm (9'0") axle and blade.



# SHORT SWING PERFORMANCE

Swing into action, and take on the jobs that a conventional excavator can't, with improved lifting capacity, so you won't have to compromise on reach, lifting or digging performance. The market leading tail swing of the EWR150E, at 1720 mm (5'8"), and the short tail swing of the EWR170E, at 1790 mm (5'10") make for efficient and safe work in confined spaces.



# BUILT IN PARTNERSHIP

At Volvo, we go the extra mile to make sure our customers are included throughout the entire engineering journey of our machines. Offering on-site demonstrations and test drives, we give customers the opportunity to tailor their machine to the demands of their jobsites. Rigorously tested, the EWR150E and EWR170E are designed to achieve optimum real-world performance - experience continuous improvement with Volvo.

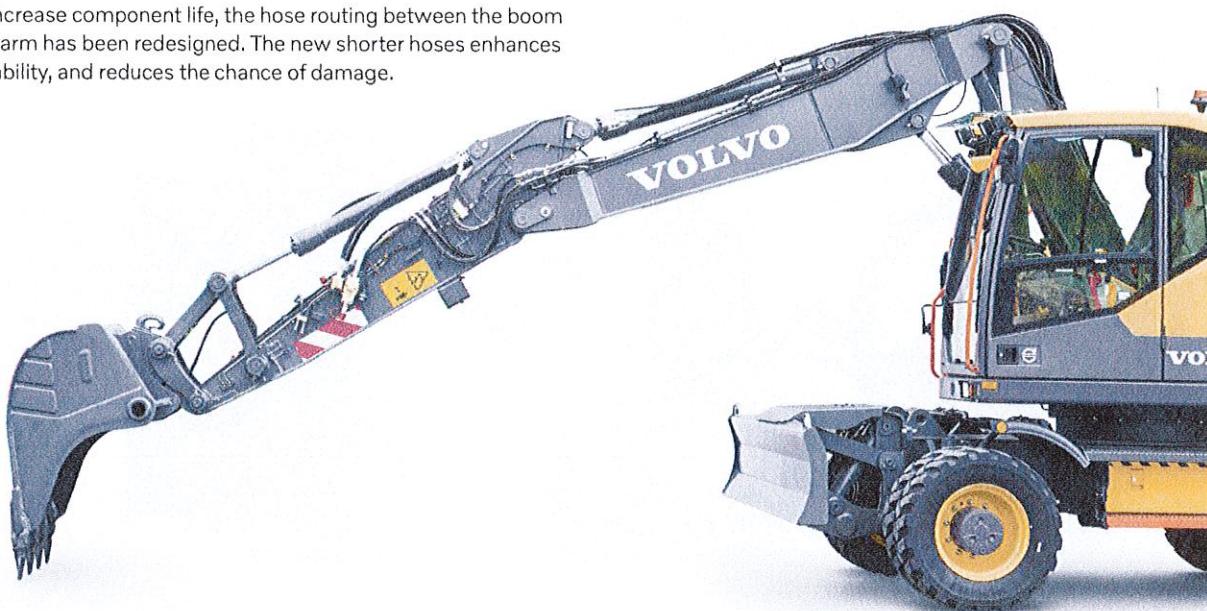


# Designed by you, built by Volvo

To make sure our machines reflect what the market wants and needs, we have involved customers at every stage of development. The EWR170E is built on the success of the EWR150E. Based on feedback from the field, we came up with a design that exceeds expectations and takes short tail swing machines to the next stage.

## Longer hose life

To increase component life, the hose routing between the boom and arm has been redesigned. The new shorter hoses enhances durability, and reduces the chance of damage.



## Safer, from the inside and out

Find your way easily when entering and exiting the machine, thanks to bright steps and handrails. As an option, the welcome light can now be controlled remotely, to guide you in the darkness.



## Clean and productive

Reduce the risk of damage to your machine, with new axle mounted mudguards. Designed with a large surface area following the wheel arch, the mudguards will help to keep your machine cleaner for longer.



# Comfortable and convenient

Conveniently designed to make life easier on the jobsite, the EWR150E and EWR170E are equipped with the latest features to increase productivity. Take on the most demanding working environments from the comfort of the spacious Volvo Care Cab, boasting all-around visibility and ergonomically-positioned controls.

## Volvo Smart View

Increase visibility using the rear view and side view cameras – which come as standard. Or select Volvo Smart View. This smart option offers a bird's-eye-view of the machine in real-time, as well as enhanced visibility of all angles, to help you navigate through tough situations.



## Comfort Drive Control

New for the Volvo wheeled excavator range, Comfort Drive Control gives the operator the opportunity to control the machine using the roller on the joystick, up to 20km/h (12mi/h). Enjoy easy operation with an array of functions at your fingertips. You can opt to integrate blade/outrigger controls in the left-hand joystick.



## Operator convenience

Operate in comfort every day, with a number of features that contribute to a more productive environment. These include the drawer type tool box, trailer hitch, refuelling pump, in-cab fluid check, and Bluetooth. Customize the controls on the joystick, and create a short cut for easy operation of the wipers or mute function.



# SEE MORE, DO MORE

Swing without obstruction. The combined positioning of the engine at the back of the machine, with the extra available space at the front right of the machine, offer a clear view to the right. Visibility is also enhanced by the large front and side glass windows of the cab, allowing operators to see any pedestrians or obstacles.



# COMFORT AT SPEED

Experience ultimate control and enhanced comfort while traveling at high speeds. The optional Boom Suspension System automatically engages at 5km/h (3.11 mi/h), absorbing shocks to reduce bouncing and bucket spillage. The hydraulic circuit, complete with gas pressure dampeners, softens the vibrations when driving over rough terrain or bumpy roads for smoother and faster travel.



# Boost your productivity

Swing into action with superior performance and efficiency. The versatile EWR150E and EWR170E combine power, fuel efficiency, easy service and smart features for an all-round machine that's in tune with your needs.

## Automatic digging brake

Maximize uptime with the optional automatic digging brake, first introduced by Volvo. The service brake and oscillation lock automatically engage when the machine's speed is at zero, so you can get straight to work once you stop.



## Power up, fuel down

Move more with less thanks to the powerful Volvo engine. To reduce fuel consumption, the machines are also equipped with auto idle and auto engine shut down functions. ECO mode turns on automatically to maintain productivity and increase fuel efficiency and the passive regeneration process automatically cleans the DPF filters without any impact on performance.

## Boom float function

Operations are easier with the boom float function. The optional feature enables the operator to fully concentrate on the attachment without having to focus on the boom. Whether using a Volvo bucket, hammer or vibration plate, count on the boom float function to limit excessive forces – resulting in longer life for the machine and attachment.

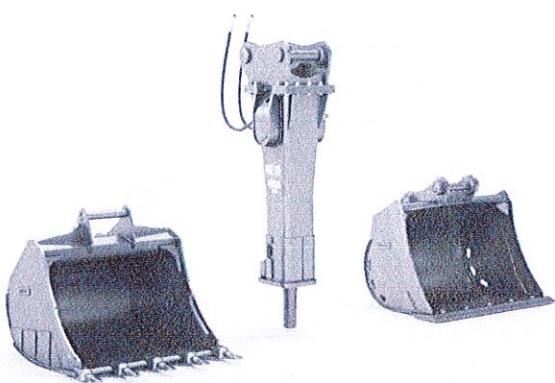


# More than a machine

To ensure your business runs smoothly, Volvo invests in the intelligent engineering of all machines – but we don't stop there. As your partner in production, we support what you do with the best equipment for the job. Our portfolio of attachments and services is designed to complement your machine's performance and boost your profitability.

## Match and attach

Get the most out of your wheeled excavator with our range of purpose-built attachments, designed to work in perfect harmony with your machine. Form one solid and reliable unit that delivers improved cycle times and increased fuel efficiency, by customizing your machine with quality Volvo attachments, which match your needs.



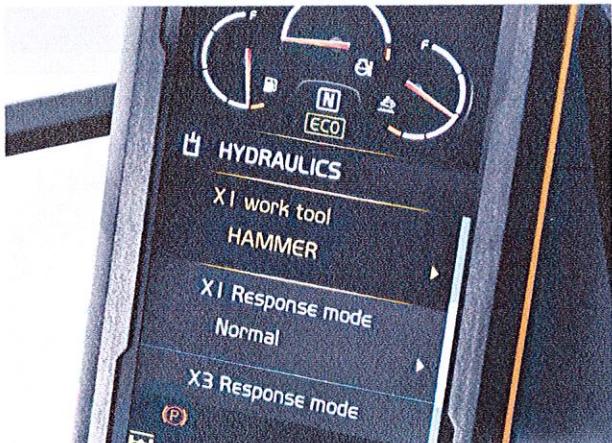
## Machine monitoring made easy

Stay ahead of unscheduled downtime and check that your machine is being operated efficiently with CareTrack – the state-of-the-art telematics system from Volvo. Stay informed and receive reports, alarms and information such as fuel status, machine location and hours, so you can plan your service more efficiently.



## Versatility

Enjoy easy and efficient changes of your attachments with the Attachment Management System. Storing the settings for up to 20 different attachments, our system will keep downtime to a minimum. Moreover, a new shortcut button is located on the console to enable simple access to the attachments menu.



## Here to support you

Maintain productivity with our range of Genuine Volvo Parts – all backed by Volvo warranty, with 24-hour delivery guarantee. Maximize machine uptime and reduce repair costs with ActiveCare Direct. The intelligent service provides round the clock machine monitoring, as well as customer reports – to help take predictive and preventative maintenance actions.



# STEELWRIST® TILTROTATOR

Boost productivity with the Steelwrist® tiltrotator, offering ultimate control and reduced fuel consumption. The factory-fitted Volvo system gives you the power to control both the machine and tiltrotator using only the two joysticks, with the information presented on just one machine display. Volvo digging, grading and cable buckets are designed to perfectly fit with the tiltrotator. (Steelwrist® is a registered trademark of Steelwrist AB)



# In a class of its own

## COMFORT AT SPEED

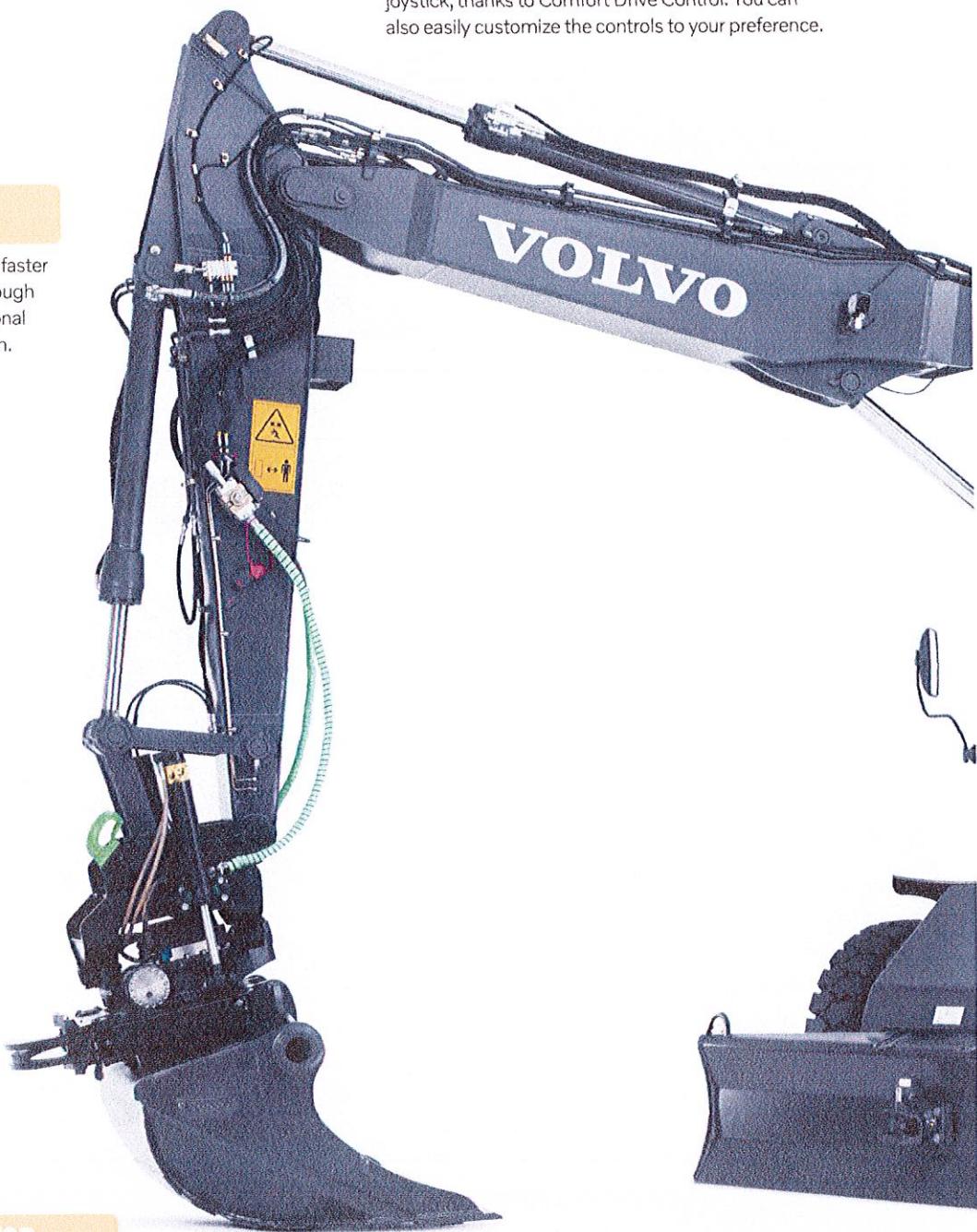
Experience smoother and faster travel when driving over rough terrain, thanks to the optional Boom Suspension System.

## Automatic digging brake

The automatic digging brake engages when the machine's speed is at zero, so you can get straight to work once you stop.

## STEELWRIST® TILTROTATOR

The new generation control system works collectively with the two joysticks and machine display for ultimate efficiency.



## Comfort Drive Control

Control the machine using only the roller on the joystick, thanks to Comfort Drive Control. You can also easily customize the controls to your preference.

## Undercarriage versatility

Tailor the weight and drawbar pull of your EWR150E with a choice of undercarriages. To boost stability, the EWR170E is optionally equipped with a 2 750 mm (9'0") wide axle and blade.

### Volvo Smart View

Get access to a bird's eye view of the operation in real-time, with Volvo Smart View – offered as a standalone screen or integrated into machine's display.

### SEE MORE, DO MORE

The smart positioning of the engine at the back of the machine offers great stability, as well as offering unobstructed views to the side.

### SHORT SWING PERFORMANCE

The market-leading short swing tail enables safe work in confined spaces, without compromising on stability.



### BUILT IN PARTNERSHIP

Volvo has involved the customer at every stage of the machine's design, through on-site visits and test drives.

### Trailer towing hitch

For maximum versatility and productivity, take all your tools to the jobsite in one trip, thanks to the road-homologated trailer hitch (TüV).

### Superior serviceability

Ground-level access to all daily checkpoints, grouped greasing points and pivoting AC condenser allow for fast and effortless maintenance.

### Made in Germany

Designed, made and tested in Germany, the EWR150E and EWR170E are the perfect machines, wherever you are in the world.

# Volvo EWR150E in detail

## Engine

Volvo Construction Equipment is ready to comply with the tough new Tier 4 Final legislation for off-road vehicles with the introduction of a cascade of innovations in its new generation engines with Volvo Advanced Combustion Technology (V-ACT).

Volvo machines are equipped with in-line turbo charged diesel engine with high pressure unit injector system. The engine features a externally cooled exhaust gas re-circulation (E-EGR), a Diesel Particulate Filter (DPF) and a Selective Catalytic Reduction (SCR) with AdBlue®.

Engine	Volvo	D4J
Max. power at	r/min (r/s)	2,000 (33.3)
Net (ISO9249/SAEJ1349)	kW (hp)	102 (137)
Gross (ISO 14396/SAE J1995)	kW (hp)	105 (141)
Max. torque	Nm (ft lbf)	605 (446)
at engine speed	r/min (r/s)	1,500 (25)
No. of cylinders		4
Displacement	l (in³)	4.04 (246.5)
Bore	mm (in)	101 (4)
Stroke	mm (in)	126 (5)

## Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	2 x 100
Alternator	V/Ah	24/120
Alternator rating	W	3,360

## Undercarriage

Drive train: A variable axle piston motor in combination with a power shift gearbox supplies 3 speeds. The gearbox distributes the energy via propeller shafts to the axles.

2 different undercarriages : a) Welded radial dozer blade only with EW140 drive train. b) Bolted undercarriage with parallel blade with EW160 drivetrain and the option to add outriggers .

Wheels: Alternative single and twin wheels available.

Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.

Oscillating	± °	9
with mudguards	± °	6
Twin wheels	type	10/11-20
Tractive force (net)	kN (lbf)	88 / 111 (19,783 / 24,954)
Travel speed, on road	km/h (mi/h)	20 / 30 / 35 (12.4 / 18.6 / 21.7)
Travel speed, off road	km/h (mi/h)	5.0 / 8.5 (3.1 / 5.3)
Travel speed, creep	km/h (mi/h)	3 (1.9)
Min. turning radius	m (ft)	7.3 (24)

## Swing system

The superstructure is slewed by the means of a radial piston motor without reduction gear.

Automatic slew holding brake and anti-rebound valve are standard.

Max. slew speed	r/min	9
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## Brake system

Service brakes: servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.

Parking brake: negative wet disc in gear housing, spring applied and pressure released.

Digging brake: service brake with mechanical lock system.

Security system: The 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.

## Sound Level

Sound pressure level in cab according to ISO 6396

L <sub>PA</sub>	dB	71
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External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC

L <sub>WA</sub>	dB	100
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## Hydraulic system

Load sensing hydraulic system with pressure compensated valves. Load independence of movements. Flow sharing feature, combined with a high flow pump (power regulation). The system gives superior manoeuvrability and fast movements, for optimal working result and economy.

The following working modes are included in the system:

Parking mode (P): Parking position for optimal safety.

Travel mode (T): Engine speed is controlled by travel pedal stroke for low fuel consumption and noise.

Working mode (W): Full working flow with adjustable engine rpm for normal working and best speed utilisation.

Customer mode (C): Operator can set proper oil flow in accordance with job conditions.

Power Boost: All digging and lifting forces are increased.

## Main pump (type low noise axial piston pump)

Max. flow	l/min (gal/min)	275 (72.6)
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## Brake + steering pump (type low noise gear pump)

Max. flow	l/min (gal/min)	50 (13.2)
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## Attachment circuit

Max. flow	l/min (gal/min)	220 (58.1)
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## Relief valve setting pressure

Implement	MPa (psi)	32.5 / 36 (4,714 / 5,221)
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Travel system	MPa (psi)	36 (5,221)
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Pilot system	MPa (psi)	3.5 (508)
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## Total Machine Weights

Machine with 4.5 m monoblock boom, 2.45 m dipper arm, quickfit S6, 410 kg / 580 l bucket.

With welded radial dozer blade front and outriggers rear kg (lb) 16,500 (36,376)

With welded radial dozer blade rear only kg (lb) 15,400 (33,951)

With bolted dozer blade front and outriggers rear kg (lb) 17,400 (38,360)

With bolted dozer blade rear only kg (lb) 16,300 (35,935)

Machine with 4.7m 2-piece boom, 2.45 m dipper arm, quickfit S6, 410 kg / 580 l bucket.

With welded radial dozer blade front and outriggers rear kg (lb) 17,000 (37,479)

With welded radial dozer blade rear only kg (lb) 15,900 (35,053)

With bolted dozer blade front and outriggers rear kg (lb) 17,900 (39,463)

With bolted dozer blade rear only kg (lb) 16,800 (37,038)

## Service Refill

Fuel tank	l (gal)	200 (52.8)
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DEF/AdBlue® tank	l (gal)	25 (6.6)
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Hydraulic system, total	l (gal)	230 (60.8)
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Hydraulic tank	l (gal)	104 (27.5)
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Engine oil	l (gal)	16 (4.2)
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Engine coolant	l (gal)	32 (8.5)
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Transmission	l (gal)	2.5 (0.7)
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## Axle differential:

Front axle	l (gal)	9.5 (2.5)
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Rear axle	l (gal)	12.5 (3.3)
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Final drive	l (gal)	4 x 2.5 (4 x 0.7)
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## Cab

New design Volvo Care Cab with operator protective structure, large and roomy interior. One way travel pedal with rocker switch control (F-N-R) on the right joystick. One-touch release for digging brake pedal.

Audio system with remote control and Bluetooth system for hands free phoning.

Independently adjustable joystick consoles.

Excellent all-round visibility provided by maximized cab class, transparent roof hatch, 2-piece sliding door window and long stroke, easy to adjust and new narrow steering column. The liftable front windshield can easily be stored in the inside roof space and clipped in position. The removable lower front glass can be stored in the side door pocket. Interior lighting consists of one reading light and one light with timer.

The pressurized and filtered cab air is supplied by a 14-vent climate-control providing fast defrosting and high cooling and heating performance. Viscous/spring mounted suspension cushions protect the operator from vibrations.

Deluxe air-suspension seat with adjustable seat suspension, height, tilt, recline and forward-backward settings.(option)

Adjustable, easy to read 8.3" LCD color monitor provides real time information of machine functions and important diagnostic information and is switchable to rear view camera monitor (standard) / side view camera (option). A new multi function button on left hand joystick with programmable function to improve the operator comfort. Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1,430 t CO2-eq.

# Volvo EWR170E in detail

## Engine

Volvo Construction Equipment is ready to comply with the tough new Tier 4 Final legislation for off-road vehicles with the introduction of a cascade of innovations in its new generation engines with Volvo Advanced Combustion Technology (V-ACT). Volvo machines are equipped with in-line turbo charged diesel engine with common rail injection system. The engine features a externally cooled exhaust gas re-circulation (E-GR), a Diesel Particulate Filter (DPF) and a Selective Catalytic Reduction (SCR) with AdBlue®.

Engine	Volvo	D4J
Max. power at	r/min (r/s)	2,000 (33.3)
Net (ISO9249/SAEJ1349)	kW (hp)	112 (150)
Gross (ISO 14396/SAE J1995)	kW (hp)	115 (154)
Max. torque	Nm (ft lbf)	618 (456)
at engine speed	r/min (r/s)	1,700 (28.3)
No. of cylinders		4
Displacement	l (in³)	4.04 (246.5)
Bore	mm (in)	101 (3.98)
Stroke	mm (in)	126 (4.96)

## Electrical system

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.
Voltage
Batteries
Battery capacity
Alternator
Alternator rating

## Undercarriage

Drive train: A variable axle piston motor in combination with a power shift gearbox supplies 3 speeds. The gearbox distributes the energy via propeller shafts to the axles.
Framework: All-welded robust torsion box frame.
Wheels: Alternative single and twin wheels available.
Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.
Undercarriage available with all possible combinations of bolted outriggers and /or parallel blade.
Oscillating
with mudguards
Twin wheels
Tractive force (net)
Travel speed, on road
Travel speed, off road
Travel speed, creep
Min. turning radius
Travel speeds may depend on to local regulations

## Swing system

The superstructure is slewed by the means of a radial piston motor without reduction gear.
Automatic slew holding brake and anti-rebound valve are standard.
Max. slew speed

## Brake system

Service brakes: servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.
Parking brake: negative wet disc in gear housing, spring applied and pressure released.
Digging brake: service brake with mechanical lock system.
Security system: The 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.

## Sound Level

Sound pressure level in cab according to ISO 6396
L <sub>pA</sub> (standard)
L <sub>pA</sub> (tropical)
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC
L <sub>WA</sub> (standard)
L <sub>WA</sub> (tropical)

## Hydraulic system

Load sensing hydraulic system with pressure compensated valves. Load independence of movements. Flow sharing feature, combined with a high flow pump (power regulation). The system gives superior manoeuvrability and fast movements, for optimal working result and economy. The following working modes are included in the system:  
 Parking mode (P): Parking position for optimal safety.  
 Travel mode (T): Engine speed is controlled by travel pedal stroke for low fuel consumption and noise.  
 Working mode (W): Full working flow with adjustable engine rpm for normal working and best speed utilisation.  
 Customer mode (C): Operator can set proper oil flow in accordance with job conditions.  
 Power Boost: All digging and lifting forces are increased.

### Main pump (type low noise axial piston pump)

Max. flow	l/min (gal/min)	275 (72.6)
<b>Brake + steering pump (type low noise gear pump)</b>		
Max. flow	l/min (gal/min)	50 (13.2)

### Attachment circuit

Max. flow	l/min (gal/min)	240 (63.4)
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### Relief valve setting pressure

Implement	MPa (psi)	34/37.5 (4,931/5,439)
Travel system	MPa (psi)	37.5 (5,439)
Pilot system	MPa (psi)	3.5 (508)

### Total Machine Weights

With 5.1 m (16.7ft) 2 piece boom, 2.45 m (8ft) arm , quickcoupler S6 , Mitas 10 twin tires , Bucket 1.05 m (3.4ft) width/0.7m³ (0.92yd³) / 500kg (1,102lb).
With parallel blade front and outriggers rear
kg (lb)

With parallel blade rear only
kg (lb)

<b>Service Refill</b>
Fuel tank
DEF/AdBlue® tank
Hydraulic system, total
Hydraulic tank
Engine oil
Engine coolant
Transmission

<b>Axle differential:</b>
Front axle
Rear axle
Final drive

### Cab

Audio system with remote control and Bluetooth system for hands free phoning. Independently adjustable joystick consoles.

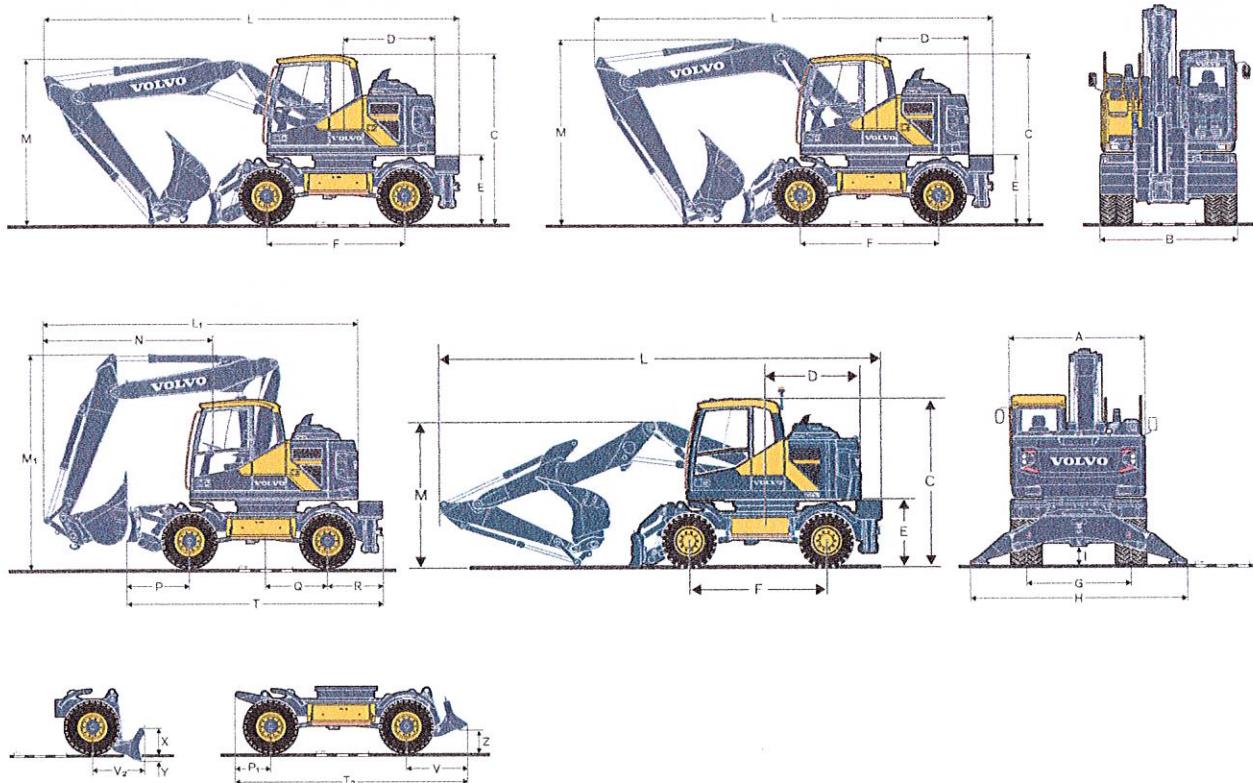
Excellent all-round visibility provided by maximized cab class, transparent roof hatch, 2-piece sliding door window and long stroke, easy to adjust and narrow steering column. The liftable front windshield can easily be stored in the inside roof space and clipped in position. The removable lower front glass can be stored in the side door pocket. Interior lighting consists of one reading light and one light with timer.

The pressurized and filtered cab air is supplied by a 14-vent climate-control providing fast defrosting and high cooling and heating performance. Viscous/spring mounted suspension cushions protect the operator from vibrations. Deluxe air-suspension seat with adjustable seat suspension, height, tilt, recline and forward-backward settings.(option)

Adjustable, easy to read 8.3" LCD color monitor provides real time information of machine functions and important diagnostic information and is switchable to rear view camera monitor( standard ) / side view camera ( option ). A new multi function button on left hand joystick with programmable function to improve the operator comfort.

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq.

# Specifications



DIMENSIONS		EWR150E																
Description	Unit m, ft in	Mono boom						2-piece boom										
		4.5, 14'9"						4.7, 15'5"										
A	Overall width of superstructure	mm	ft	in	2,520			8'3"			2,520			8'3"				
B	Overall width	mm	ft	in	2,540			8'4"			2,540			8'4"				
C	Overall height of cab	mm	ft	in	3,150			10'4"			3,150			10'4"				
D	Tail slew radius	mm	ft	in	1,720			5'8"			1,720			5'8"				
E	Counterweight clearance	mm	ft	in	1,260			4'2"			1,260			4'2"				
F	Wheel base	mm	ft	in	2,600			8'6"			2,600			8'6"				
G	Tread	mm	ft	in	1,940			6'4"			1,940			6'4"				
H	Outrigger width (front or rear)	mm	ft	in	3,990			13'1"			3,990			13'1"				
I	Min. ground clearance	mm	ft	in	340			1'1"			340			1'1"				
Description	Unit m, ft in	Mono,boom						2-piece,boom										
		4.5, 14'9"						4.7, 15'5"										
		Arm						Arm										
	m ft in	2.0	6'7"	2.45	8'0"	2.6	8'6"	3.1	10'2"	2.0	6'7"	2.45	8'0"	2.6	8'6"	3.1	10'2"	
L	Overall length	mm	ft	in	7,640	25'1"	7,500	24'7"	7,560	24'10"	7,570	24'10"	7,830	25'8"	7,760	25'6"	7,790	25'7"
M	Overall height of boom	mm	ft	in	2,950	9'8"	3,330	10'11"	3,320	10'11"	3,320	10'11"	2,730	8'11"	3,080	10'1"	3,040	9'12"
L1	Overall length	mm	ft	in	-	-	-	-	-	-	-	-	6,460	21'2"	6,570	21'7"	6,610	21'8"
M1	Overall height of boom	mm	ft	in	-	-	-	-	-	-	-	-	3,960	12'12"	3,970	13'0"	3,970	13'0"
N	Front overhang	mm	ft	in	-	-	-	-	-	-	-	-	3,050	10'0"	3,150	10'4"	3,190	10'6"
** without bucket																		

DIMENSIONS			EWR170E													
Description	Unit		2 piece boom						2-piece offset boom							
	mm	ft in	5.1, 16'9"						5.2, 17'1"							
A Overall width of superstructure	mm	ft in	2,520					8'3"	2,520			8'3"				
B Overall width	mm	ft in	2,540					8'4"	2,540			8'4"				
C Overall height of cab	mm	ft in	3,150					10'4"	3,150			10'4"				
D Tail slew radius	mm	ft in	1,790					5'10"	1,790			5'10"				
E Counterweight clearance	mm	ft in	1,260					4'2"	1,260			4'2"				
F Wheel base	mm	ft in	2,600					8'6"	2,600			8'6"				
G Tread	mm	ft in	1,940					6'4"	1,940			6'4"				
H Outrigger width (front or rear)	mm	ft in	3,990					13'1"	3,990			13'1"				
I Min. ground clearance	mm	ft in	340					1'1"	340			1'1"				
Description	Unit		2-piece boom								2-piece offset boom					
	m, ft in		5.1, 16'9"								5.2, 17'1"					
	mm	ft in	Arm				Grab arm				Arm					
	m	ft in	2.0	6'7"	2.45	8'0"	2.6	8'6"	3.1	10'2"	2.95	9'8"	2.0	6'7"	2.45	8'0"
L Overall length	mm	ft in	8,320	27'4"	8,340	27'4"	8,340	27'4"	8,260	27'1"	8,330	27'4"	8,340	27'4"	8,370	27'6"
M Overall height of boom	mm	ft in	2,720	8'11"	2,840	9'4"	2,890	9'6"	3,250	10'8"	2,960	9'9"	2,730	8'11"	2,790	9'2"
L1 Overall length	mm	ft in	6,490	21'4"	6,510	21'4"	6,560	21'6"	6,250**	20'6"**	6,340**	20'10"**	6,540	21'5"	6,540	21'5"
M1 Overall height of boom	mm	ft in	4,000	13'1"	4,000	13'1"	4,000	13'1"	4,000**	13'1"**	4,000	13'1"	4,000	13'1"	4,000	13'1"
N Front overhang	mm	ft in	3,090	10'2"	3,110	10'2"	3,160	10'4"	2,850**	9'4"**	2,900**	9'6"**	3,140	10'4"	3,140	10'4"

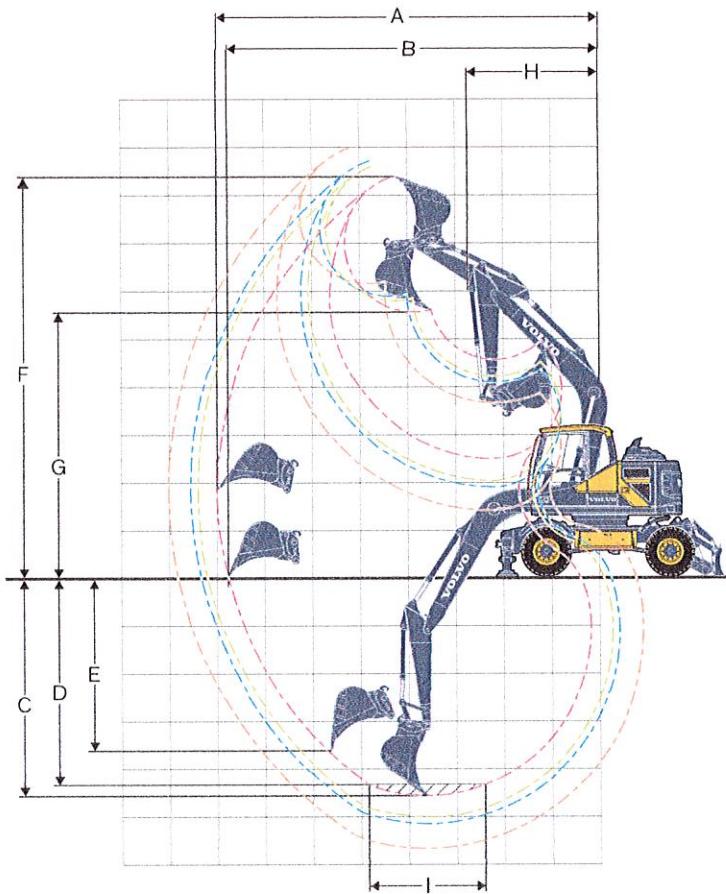
\*\* without bucket

#### UNDERCARRIAGE DIMENSIONS

Description	Unit	EWR150E						EWR170E							
		Bolted undercarriage with parallel blade			Welded undercarriage with radial blade			Bolted undercarriage with parallel blade							
P	mm	ft in	1,180			3'10"		1,150			3'9"		1,180		3'10"
P1	mm	ft in	750			2'6"		675			2'3"		750		2'6"
Q	mm	ft in	1,150			3'9"		1,150			3'9"		1,150		3'9"
R	mm	ft in	1,030			3'5"		1,030			3'5"		1,030		3'5"
T	mm	ft in	4,810			15'9"		4,790			15'9"		4,810		15'9"
T2	mm	ft in	4,470			14'8"		4,440			14'7"		4,470		14'8"
V	mm	ft in	1,120			3'8"		1,160			3'10"		1,120		3'8"
V2	mm	ft in	920			3'0"		940			3'1"		920		3'0"
X	mm	ft in	450			1'6"		460			1'6"		450		1'6"
Y	mm	ft in	150			0'6"		180			0'7"		150		0'6"
Z	mm	ft in	520			1'8"		400			1'4"		520		1'8"

# Specifications

## EWR150E



### WORKING RANGES WITH DIRECT FIT BUCKET

	Unit	4.5 m, 14'9" mono boom EWR150E									
		Arm									
		2.0	6'7"	2.45	8'0"	2.6	8'6"	3.1	10'2"		
A	Max. digging reach	mm	ft in	7,980	26'2"	8,400	27'7"	8,540	28'0"	9,010	29'7"
B	Max. digging reach on ground	mm	ft in	7,770	25'6"	8,200	26'11"	8,340	27'4"	8,820	28'11"
C	Max. digging depth	mm	ft in	4,610	15'1"	5,070	16'8"	5,210	17'1"	5,710	18'9"
D	Max. digging depth (l = 2.44 m, 8'0" level)	mm	ft in	4,380	14'4"	4,870	15'12"	5,050	16'7"	5,550	18'3"
E	Max. vertical wall digging depth	mm	ft in	3,670	12'0"	4,100	13'5"	4,250	13'11"	4,770	15'8"
F	Max. cutting height	mm	ft in	8,320	27'4"	8,560	28'1"	8,640	28'4"	8,910	29'3"
G	Max. dumping height	mm	ft in	5,500	18'1"	5,740	18'10"	5,820	19'1"	6,090	19'12"
H	Min. front slew radius	mm	ft in	2,740	8'12"	2,740	8'12"	2,750	9'0"	2,730	8'11"

### DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force - bucket (ISO)	kN	lbf	108.5*	24,392*	108.5*	24,392*	108.5*	24,392*	108.5*	24,392*
Tearout force (ISO)	kN	lbf	73*	16,411*	63.5*	14,275*	61*	13,713*	53.5*	12,027*

### Max. recommended sizes for direct fit buckets

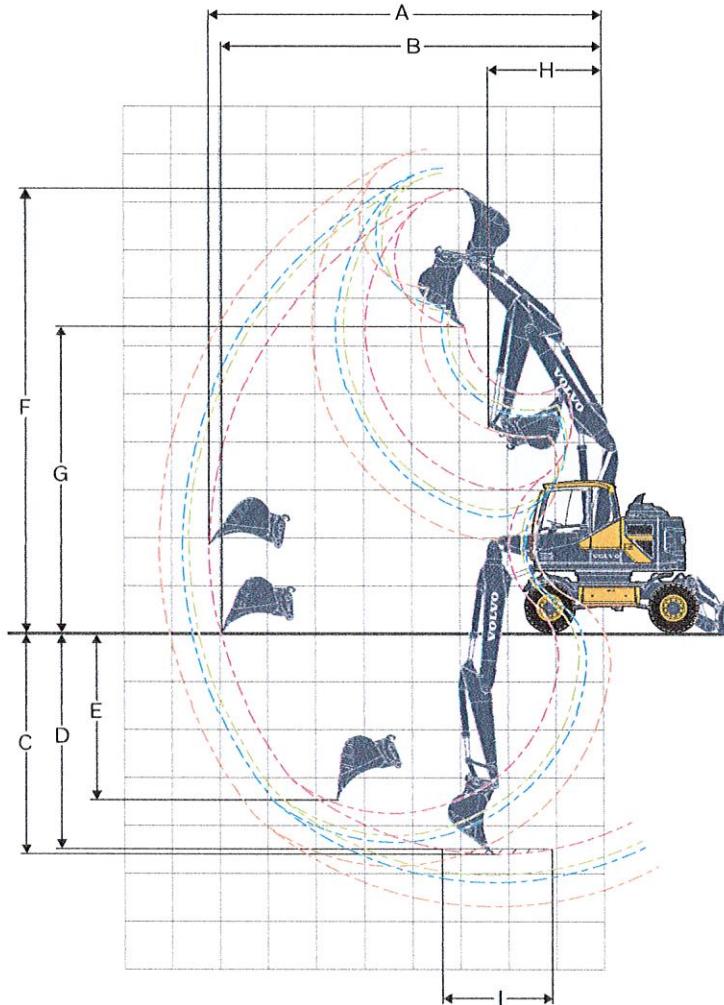
GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	730	193	730	193	730	193	730	193
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### Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	730	193	730	193	730	193	730	193
S6 QF HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	520	137	520	137	520	137	520	137
UQF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	730	193	730	193	730	193	660	174

\*with Power boost

Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose. 2. "Max permitted sizes" are for reference only and are not necessarily available from the factory.



#### WORKING RANGES WITH DIRECT FIT BUCKET

	Unit	4.7 m, 15'5" 2-piece boom EWR150E									
		2.0	6'7"	2.45	8'0"	2.6	8'6"	3.1	10'2"		
A	Max. digging reach	mm	ft in	8,240	27'0"	8,670	28'5"	8,810	28'11"	9,300	30'6"
B	Max. digging reach on ground	mm	ft in	8,040	26'5"	8,470	27'9"	8,620	28'3"	9,110	29'11"
C	Max. digging depth	mm	ft in	4,650	15'9"	5,100	16'9"	5,240	17'2"	5,740	18'10"
D	Max. digging depth (l = 2.44 m, 8'0" level)	mm	ft in	4,530	14'10"	5,000	16'5"	5,140	16'10"	5,640	18'6"
E	Max. vertical wall digging depth	mm	ft in	3,520	11'7"	4,000	13'1"	4,100	13'5"	4,600	15'4"
F	Max. cutting height	mm	ft in	9,220	30'3"	9,560	31'4"	9,670	31'9"	10,030	32'11"
G	Max. dumping height	mm	ft in	6,340	20'10"	6,670	21'11"	6,780	22'3"	7,150	23'5"
H	Min. front slew radius	mm	ft in	2,440	8'0"	2,560	8'5"	2,600	8'6"	2,740	8'12"

#### DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket) (ISO)	kN	lbf	108.5*	24,392*	108.5*	24,392*	108.5*	24,392*	108.5*	24,392*
Tearout force (ISO)	kN	lbf	73*	16,411*	63.5*	14,275*	61*	13,713*	53.5*	12,027*

\* with powerboost

#### Max. recommended sizes for direct fit buckets

GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	730	193	730	193	730	193	730	193
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#### Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	730	193	730	193	730	193	580	153
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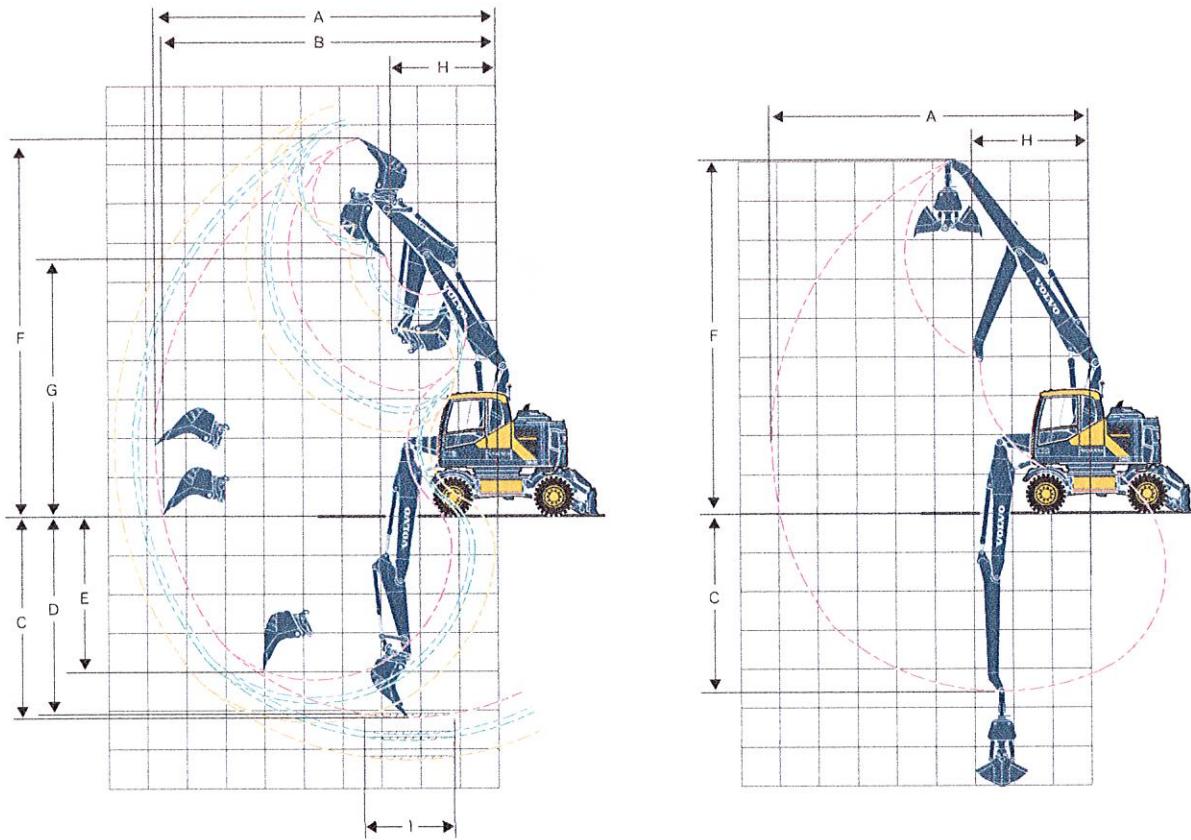
S6 QF HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	520	137	520	137	520	137	520	137
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S1 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	730	193	730	193	730	193	580	153
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Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose. | 2. "Max permitted sizes" are for reference only and are not necessarily available from the factory. | 3. "Max permitted sizes" are for heavy counterweight.

# Specifications

## EWR170E



### WORKING RANGES WITH DIRECT FIT BUCKET

Unit	5.1 m, 16'9" 2-piece boom EWR170E										Grab arm		
	Arm										Grab arm		
	m	ft in	2.0	6'7"	2.45	8'0"	2.6	8'6"	3.1	10'2"	2.95*	9'8"**	
A	Max. digging reach	mm	ft in	8,780	28'10"	9,9210	30'3"	9,360	30'9"	9,840	32'3"	8,190	26'10"
B	Max. digging reach on ground	mm	ft in	8,590	28'2"	9,030	29'8"	9,180	30'1"	9,670	31'9"	-	-
C	Max. digging depth	mm	ft in	5,190	17'0"	5,640	18'6"	5,790	18'12"	6,290	20'8"	4,590	15'1"
D	Max. digging depth (l = 2.44 m, 8'0" level)	mm	ft in	5,080	16'8"	5,540	18'2"	5,690	18'8"	6,190	20'4"	-	-
E	Max. vertical wall digging depth	mm	ft in	4,000	13'1"	4,520	14'10"	4,680	15'4"	5,160	16'11"	-	-
F	Max. cutting height	mm	ft in	9,660	31'8"	10,010	32'10"	10,120	33'2"	10,490	34'5"	8,990	29'6"
G	Max. dumping height	mm	ft in	6,600	21'8"	6,930	22'9"	7,040	23'1"	7,410	24'4"	-	-
H	Min. front slew radius	mm	ft in	2,700	8'10"	2,820	9'3"	2,860	9'5"	3,000	9'10"	3,010	9'11"

\* without clamshell bucket

### DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket) (ISO)	kN	lbf	126*	28,326*	126*	28,326*	126*	28,326*	126*	28,326*	-	-
Tearout force (ISO)	kN	lbf	98*	22,031*	86*	19,334*	82*	18,434*	72*	16,186*	-	-

\* with powerboost

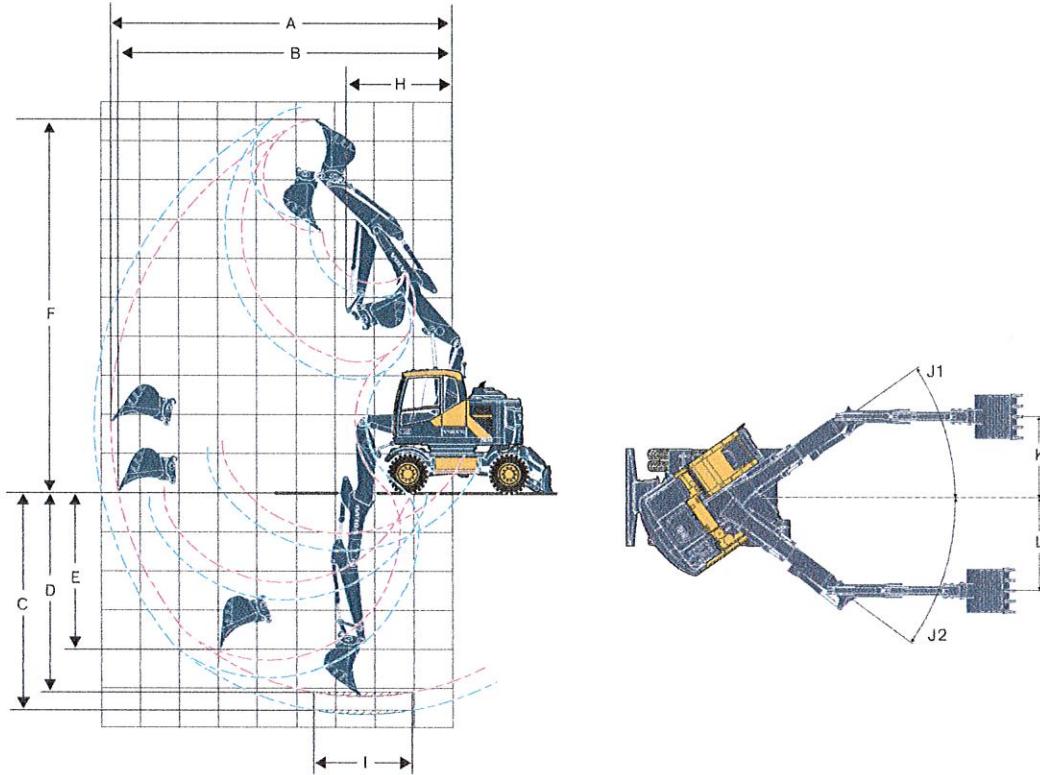
### Max. recommended sizes for direct fit buckets

GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	957	253	957	253	858	227	770	203	-	-
HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	770	203	770	203	770	203	682	180	-	-

### Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	870	230	780	206	780	206	-	-	-	-
S6 QF HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	700	185	620	164	620	164	500	132	-	-
S1 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	870	230	700	185	700	185	620	164	-	-
S1 QF HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	700	185	620	164	620	164	360	95	-	-

Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose. | 2. "Max permitted sizes" are for reference only and are not necessarily available from the factory. | 3. "Max permitted sizes" are for heavy counterweight.



#### WORKING RANGES WITH DIRECT FIT BUCKET

	5.2 m, 17'1" 2-piece offset boom EWR170E						
	Unit		Arm				
	m	ft in	2.0	6'7"	2.45	8'0"	
A	Max. digging reach	mm	ft in	8,760	28'9"	9,180	30'1"
B	Max. digging reach on ground	mm	ft in	8,560	28'1"	9,000	29'6"
C	Max. digging depth	mm	ft in	5,210	17'1"	5,660	18'7"
	Max. digging depth at max. attachment offset with vertical trench walls	mm	ft in	2,280	7'6"	2,730	8'11"
D	Min. digging depth at max. attachment offset with vertical trench walls	mm	ft in	1,030	3'5"	1,480	4'10"
E	Max. digging depth (I=2.44m, 8'0" level)	mm	ft in	5,100	16'9"	5,560	18'3"
F	Max. vertical wall digging depth	mm	ft in	3,980	13'1"	4,410	14'6"
G	Max. cutting height	mm	ft in	9,560	31'4"	9,880	32'5"
H	Max. dumping height	mm	ft in	6,690	21'11"	7,000	22'12"
	Min. front swing radius	mm	ft in	2,710	8'11"	2,820	9'3"
J1		°		35		35	
J2		°		36		36	
K		mm	ft in	2,120	6'11"	2,120	6'11"
L		mm	ft in	2,430	7'12"	2,430	7'12"

#### DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket) (ISO)	kN	lbf	108*	24,279*	108*	24,279*
Tearout force (ISO)	kN	lbf	73*	16,411*	63.5*	14,275*

\* with powerboost

#### Max. recommended sizes for direct fit buckets

GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	780	206	780	206
HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	620	164	620	164

#### Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	780	206	700	185
S6 QF HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	620	164	500	132
S1 QF GP-Bucket (1.8 t/m <sup>3</sup>   3,034 lb/yd <sup>3</sup> )	l	gal	620	164	620	164
S1 QF HD-Bucket (2.1 t/m <sup>3</sup>   3,540 lb/yd <sup>3</sup> )	l	gal	620	164	500	132

Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose. 2. "Max permitted sizes" are for reference only and are not necessarily available from the factory.

# Specifications

## EWR150E

### LIFTING CAPACITY EWR150E - Welded undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: 1,000 kg / 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Lifting point		Reach from machine centre (u = support up/d = support down)																
		1.5 m, 5 ft		3.0 m, 10 ft		4.5 m, 15 ft		6.0 m, 20 ft		Max.								
		Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	u	d	u	d	
4.5 m, 14'9" mono boom 2.0 m, 6'7" dipper arm Front radial blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6 m	•	-	-	-	-	-	-	3.8	4.1*	4.1*	4.1*	-	-	-	3.3	3.4*	
	20 ft	■	-	-	-	-	-	-	8.4	*9.0	*9.0	*9.0	-	-	-	7.3	*7.5	
	4.5 m	•	-	-	-	-	-	-	3.7	4.4*	4.4*	4.4*	-	-	-	2.4	3.2*	
	15 ft	■	-	-	-	-	-	-	8.2	*9.7	*9.7	*9.7	-	-	-	5.3	*7.1	
	3 m	•	-	-	-	6.3	8.0*	8.0*	8.0*	3.5	5.3*	5.3*	5.3*	2.3	4.0	3.7	4.3*	
	10 ft	■	-	-	-	13.9	*17.6	*17.6	*17.6	7.7	*11.7	*11.7	*11.7	5.1	8.8	8.2	*9.5	
	1.5 m	•	-	-	-	-	-	-	3.3	6.0	5.6	6.2*	2.2	3.9	3.7	4.7*	2.0	
	5 ft	■	-	-	-	-	-	-	7.3	13.2	12.3	*13.7	4.9	8.6	8.2	*10.4	4.4	
	0 m	•	-	-	-	5.7	7.0*	7.0*	7.0*	3.2	5.8	5.5	6.6*	2.2	3.8	3.6	4.8*	
	0 ft	■	-	-	-	12.6	*15.4	*15.4	*15.4	7.1	12.8	12.1	*14.6	4.9	8.4	7.9	*10.6	
	-1.5 m	•	-	-	-	5.8	9.3*	9.3*	9.3*	3.2	5.8	5.5	6.3*	-	-	-	2.4	
	-5 ft	■	-	-	-	12.8	*20.5	*20.5	*20.5	7.1	12.8	12.1	*13.9	-	-	-	5.3	
	-3 m	•	-	-	-	5.9	7.0*	7.0*	7.0*	-	-	-	-	-	-	-	3.5	
	-10 ft	■	-	-	-	13.0	*15.4	*15.4	*15.4	-	-	-	-	-	-	-	7.7	
4.5 m, 14'9" mono boom 2.45 m, 8'0" dipper arm Front radial blade Rear outriggers	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7*	2.7*	
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	*6.0	*6.0	
	4.5 m	•	-	-	-	-	-	-	3.8	3.9*	3.9*	3.9*	2.4	3.7*	3.7*	3.7*	2.2	
	15 ft	■	-	-	-	-	-	-	8.4	*8.6	*8.6	*8.6	5.3	*8.2	*8.2	*8.2	4.9	
	3 m	•	-	-	-	6.5	7.0*	7.0*	7.0*	3.6	4.9*	4.9*	4.9*	2.3	4.0	3.8	4.1*	
	10 ft	■	-	-	-	14.3	*15.4	*15.4	*15.4	7.9	*10.8	*10.8	*10.8	5.1	8.8	8.4	*9.0	
	1.5 m	•	-	-	-	5.9	6.8*	6.8*	6.8*	3.4	5.9*	5.6	5.9*	2.2	3.9	3.7	4.5*	
	5 ft	■	-	-	-	13.0	*15.0	*15.0	*15.0	7.5	*13.0	12.3	*13.0	4.9	8.6	8.2	*9.9	
	0 m	•	-	-	-	5.7	7.2*	7.2*	7.2*	3.2	5.8	5.5	6.5*	2.2	3.8	3.6	4.8*	
	0 ft	■	-	-	-	12.6	*15.9	*15.9	*15.9	7.1	12.8	12.1	*14.3	4.9	8.4	7.9	*10.6	
	-1.5 m	•	5.8*	5.8*	5.8*	5.8*	5.8*	5.8*	5.7	9.7*	9.7*	9.7*	3.2	5.8	5.4	6.4*	2.1	
	-5 ft	■	*12.8	*12.8	*12.8	*12.8	12.6	*21.4	*21.4	*21.4	7.1	12.8	11.9	*14.1	4.9	8.4	7.9	*9.9
	-3 m	•	-	-	-	5.8	8.0*	8.0*	8.0*	3.2	5.8*	5.3*	5.3*	-	-	-	2.9	
	-10 ft	■	-	-	-	12.8	*17.6	*17.6	*17.6	7.1	*11.7	*11.7	*11.7	-	-	-	6.4	
	-4.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-15 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.5 m, 14'9" mono boom 2.6 m, 8'6" dipper arm Front radial blade Rear outriggers	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5*	2.5*	
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	*5.5	*5.5	
	4.5 m	•	-	-	-	-	-	-	3.8*	3.8*	3.8*	3.8*	2.4	3.7*	3.7*	3.7*	2.1	
	15 ft	■	-	-	-	-	-	-	*8.4	*8.4	*8.4	*8.4	5.3	*8.2	*8.2	*8.2	4.6	
	3 m	•	-	-	-	6.5	6.7*	6.6*	6.7*	3.6	4.7*	4.7*	4.7*	2.3	4.0	3.8	4.0*	
	10 ft	■	-	-	-	14.3	*14.8	*14.6	*14.8	7.9	*10.4	*10.4	*10.4	5.1	8.8	8.4	*8.8	
	1.5 m	•	-	-	-	5.9	7.7*	7.8*	7.7*	3.3	5.8*	5.6	5.8*	2.2	3.9	3.6	4.4*	
	5 ft	■	-	-	-	13.0	*17.0	*17.2	*17.0	7.3	*12.8	12.3	*12.8	4.9	8.6	7.9	*9.7	
	0 m	•	-	-	-	5.7	7.3*	7.4*	7.3*	3.2	5.8	5.4	6.5*	2.1	3.8	3.6	4.8*	
	0 ft	■	-	-	-	12.6	*16.1	*16.3	*16.1	7.1	12.8	11.9	*14.3	4.6	8.4	7.9	*10.6	
	-1.5 m	•	5.6*	5.6*	5.6*	5.6*	5.6	9.9*	9.8*	9.9*	3.1	5.7	5.4	6.5*	2.1	3.8	3.5	4.6*
	-5 ft	■	*12.3	*12.3	*12.3	*12.3	12.3	*21.8	*21.8	*21.8	6.8	12.6	11.9	*14.3	4.6	8.4	7.7	*9.0
	-3 m	•	-	-	-	5.7	8.2*	8.2*	8.2*	3.2	5.5*	5.4	5.5*	-	-	-	2.7	
	-10 ft	■	-	-	-	12.6	*18.1	*18.1	*18.1	7.1	*12.1	11.9	*12.1	-	-	-	6.0	
	-4.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-15 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

### LIFTING CAPACITY EWR150E - Welded undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. Unit: • 1,000 kg / ■ 1,000 lb

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Lifting point	Reach from machine centre (u = support up/d = support down)	Reach from machine centre (u = support up/d = support down)																					
		1.5 m, 5 ft				3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		u		d			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d				
4.5 m, 14'9" mono boom 2.0 m, 6'7" dipper arm Radial Blade Rear	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	6 m	•	-	-	-	-	-	-	-	3.6	4.1	4.1*	4.1*	-	-	-	-	3.1	3.4*	3.4*	3.4*	4.9 m	
	20 ft	■	-	-	-	-	-	-	-	7.9	9.0	*9.0	*9.0	-	-	-	-	6.8	*7.5	*7.5	*7.5	16.1 ft	
	4.5 m	•	-	-	-	-	-	-	-	3.5	4.0	4.4*	4.4*	-	-	-	-	2.3	2.6	3.2*	3.2*	5.9 m	
	15 ft	■	-	-	-	-	-	-	-	7.7	8.8	*9.7	*9.7	-	-	-	-	5.1	5.7	*7.1	*7.1	19.4 ft	
	3 m	•	-	-	-	-	6.0	7.0	8.0*	8.0*	3.3	3.8	5.3*	5.3*	2.2	2.5	3.6	4.3*	2.0	2.3	3.3	3.3*	6.4 m
	10 ft	■	-	-	-	-	13.2	15.4	*17.6	*17.6	7.3	8.4	*11.7	*11.7	4.9	5.5	7.9	*9.5	4.4	5.1	7.3	*7.3	21.0 ft
	1.5 m	•	-	-	-	-	-	-	-	3.1	3.6	5.4	6.2*	2.1	2.4	3.5	4.7*	1.9	2.1	3.1	3.6*	6.5 m	
	5 ft	■	-	-	-	-	-	-	-	6.8	7.9	11.9	*13.7	4.6	5.3	7.7	*10.4	4.2	4.6	6.8	*7.9	21.3 ft	
	0 m	•	-	-	-	-	5.4	6.4	7.0*	7.0*	3.0	3.5	5.3	6.6*	2.1	2.4	3.5	4.8*	1.9	2.2	3.3	4.2*	6.3 m
	0 ft	■	-	-	-	-	11.9	14.1	*15.4	*15.4	6.6	7.7	11.7	*14.6	4.6	5.3	7.7	*10.6	4.2	4.9	7.3	*9.3	20.7 ft
	-1.5 m	•	-	-	-	-	5.4	6.4	9.3*	9.3*	3.0	3.5	5.3	6.3*	-	-	-	-	2.3	2.6	3.8	4.7*	5.6 m
	-5 ft	■	-	-	-	-	11.9	14.1	*20.5	*20.5	6.6	7.7	11.7	*13.9	-	-	-	-	5.1	5.7	8.4	*10.4	18.4 ft
	-3 m	•	-	-	-	-	5.6	6.6	7.0*	7.0*	-	-	-	-	-	-	-	3.3	3.8	4.7*	4.7*	4.3 m	
	-10 ft	■	-	-	-	-	12.3	14.6	*15.4	*15.4	-	-	-	-	-	-	-	7.3	8.4	*10.4	*10.4	14.1 ft	
4.5 m, 14'9" mono boom 2.45 m, 8'0" dipper arm Radial Blade Rear	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.7*	2.7*	2.7*	5.5 m		
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	*6.0	*6.0	*6.0	18.0 ft		
	4.5 m	•	-	-	-	-	-	-	-	3.6	3.9*	3.9*	3.9*	2.3	2.6	3.7*	3.7*	2.0	2.3	2.6*	2.6*	6.4 m	
	15 ft	■	-	-	-	-	-	-	-	7.9	*8.6	*8.6	*8.6	5.1	5.7	*8.2	*8.2	4.4	5.1	*5.7	*5.7	21.0 ft	
	3 m	•	-	-	-	-	6.2	7.0*	7.0*	7.0*	3.4	3.9	4.9*	4.9*	2.2	2.5	3.6	4.1*	1.8	2.0	2.6*	2.6*	6.8 m
	10 ft	■	-	-	-	-	13.7	*15.4	*15.4	*15.4	7.5	8.6	*10.8	*10.8	4.9	5.5	7.9	*9.0	4.0	4.4	*5.7	*5.7	22.3 ft
	1.5 m	•	-	-	-	-	5.6	6.6	6.8*	6.8*	3.2	3.6	5.5	5.9*	2.1	2.4	3.5	4.5*	1.7	1.9	2.8*	2.8*	6.9 m
	5 ft	■	-	-	-	-	12.3	14.6	*15.0	*15.0	7.1	7.9	12.1	*13.0	4.6	5.3	7.7	*9.9	3.7	4.2	*6.2	*6.2	22.6 ft
	0 m	•	-	-	-	-	5.4	6.4	7.2*	7.2*	3.0	3.5	5.3	6.5*	2.0	2.3	3.5	4.8*	1.7	2.0	3.0	3.2*	6.7 m
	0 ft	■	-	-	-	-	11.9	14.1	*15.9	*15.9	6.6	7.7	11.7	*14.3	4.4	5.1	7.7	*10.6	3.7	4.4	6.6	*7.1	22.0 ft
	-1.5 m	•	5.8*	5.8*	5.8*	5.8*	5.4	6.3	9.7*	9.7*	3.0	3.4	5.2	6.4*	2.0	2.3	3.4	4.5*	2.0	2.3	3.4	4.1*	6.1 m
	-5 ft	■	*12.8	*12.8	*12.8	*12.8	11.9	13.9	*21.4	*21.4	6.6	7.5	11.5	*14.1	4.4	5.1	7.5	*9.9	4.4	5.1	7.5	*9.0	20.0 ft
	-3 m	•	-	-	-	-	5.5	6.5	7.9*	7.9*	3.0	3.5	5.3*	5.3*	-	-	-	-	2.7	3.1	4.6*	4.6*	4.9 m
	-10 ft	■	-	-	-	-	12.1	14.3	*17.4	*17.4	6.6	7.7	*11.7	*11.7	-	-	-	-	6.0	6.8	*10.1	*10.1	16.1 ft
	-4.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-15 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4.5 m, 14'9" mono boom 2.6 m, 8'6" dipper arm Radial Blade Rear	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5*	2.5*	2.5*	2.5*	5.6 m		
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*5.5	*5.5	*5.5	*5.5	18.4 ft		
	4.5 m	•	-	-	-	-	-	-	-	3.6	3.8*	3.8*	3.8*	2.3	2.6	3.6*	3.6*	2.0	2.2	2.4*	2.4*	6.5 m	
	15 ft	■	-	-	-	-	-	-	-	7.9	*8.4	*8.4	*8.4	5.1	5.7	*7.9	*7.9	4.4	4.9	*5.3	*5.3	21.3 ft	
	3 m	•	-	-	-	-	6.3	6.7*	6.7*	6.7*	3.4	3.9	4.7*	4.7*	2.2	2.5	3.7	4.0*	1.7	2.0	2.4*	2.4*	7.0 m
	10 ft	■	-	-	-	-	13.9	*14.8	*14.8	*14.8	7.5	8.6	*10.4	*10.4	4.9	5.5	8.2	*8.8	3.7	4.4	*5.3	*5.3	23.0 ft
	1.5 m	•	-	-	-	-	5.6	6.6	7.7*	7.7*	3.2	3.6	5.5	5.8*	2.1	2.4	3.5	4.4*	1.6	1.9	2.6*	2.6*	7.1 m
	5 ft	■	-	-	-	-	12.3	14.6	*17.0	*17.0	7.1	7.9	12.1	*12.8	4.6	5.3	7.7	*9.7	3.5	4.2	*5.7	*5.7	23.3 ft
	0 m	•	-	-	-	-	5.4	6.4	7.3*	7.3*	3.0	3.5	5.3	6.5*	2.0	2.3	3.5	4.7*	1.7	1.9	2.9	3.0*	6.9 m
	0 ft	■	-	-	-	-	11.9	14.1	*16.1	*16.1	6.6	7.7	11.7	*14.3	4.4	5.1	7.7	*10.4	3.7	4.2	6.4	*6.6	22.6 ft
	-1.5 m	•	5.6*	5.6*	5.6*	5.6*	5.3	6.3	9.8*	9.8*	3.0	3.4	5.2	6.5*	2.0	2.3	3.4	4.6*	1.9	2.2	3.2	3.8*	6.2 m
	-5 ft	■	*12.3	*12.3	*12.3	*12.3	11.7	13.9	*21.6	*21.6	6.6	7.5	11.5	*14.3	4.4	5.1	7.5	*10.1	4.2	4.9	7.1	*8.4	20.3 ft
	-3 m	•	-	-	-	-	5.4	6.4	8.2*	8.2*	3.0	3.5	5.3	5.5*	-	-	-	-	2.5	2.9	4.4	4.5*	5.1 m
	-10 ft	■	-	-	-	-	11.9	14.1	*18.1	*18.1	6.6	7.7	11.7	*12.1	-	-	-	-	5.5	6.4	9.7	*9.9	16.7 ft
	-4.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	-15 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

# Specifications

## EWR150E

### LIFTING CAPACITY EWR150E - Welded undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Lifting point		Reach from machine centre (u = support up/d = support down)																				
		1.5 m, 5 ft		3.0 m, 10 ft		4.5 m, 15 ft		6.0 m, 20 ft		Max.												
		Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	u	d	u	d					
4.7 m, 15'5" 2 piece boom 2.0 m, 6'7" dipper arm Front radial blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	4.4*	4.4*	4.4*	4.4*	3.5 m				
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	9.7	9.7	9.7	9.7	11.5 ft				
	6 m	•	-	-	-	-	-	3.8	4.1*	4.1*	4.1*	-	-	2.9	3.5*	3.5*	3.5*	5.3 m				
	20 ft	■	-	-	-	-	-	8.4	*9.0	*9.0	*9.0	-	-	6.4	*7.7	*7.7	*7.7	17.4 ft				
	4.5 m	•	-	-	-	5.6*	5.6*	5.6*	5.6*	3.7	4.5*	4.5*	4.5*	2.3	4.0	3.8	4.0*	2.2	3.2*	3.2*	3.2*	6.2 m
	15 ft	■	-	-	-	*12.3	*12.3	*12.3	*12.3	8.2	*9.9	*9.9	*9.9	5.1	8.8	8.4	*8.8	4.9	*7.1	*7.1	*7.1	20.3 ft
	3 m	•	-	-	-	-	-	-	3.5	5.3*	5.3*	5.3*	2.3	3.9	3.7	4.3*	1.9	3.2*	3.1	3.2*	6.7 m	
	10 ft	■	-	-	-	-	-	-	7.7	*11.7	*11.7	*11.7	5.1	8.6	8.2	*9.5	4.2	*7.1	6.8	*7.1	22.0 ft	
	1.5 m	•	-	-	-	-	-	-	3.2	5.9	5.5	6.1*	2.2	3.8	3.6	4.6*	1.8	3.2	3.0	3.5*	6.8 m	
	5 ft	■	-	-	-	-	-	-	7.1	13.0	12.1	*13.4	4.9	8.4	7.9	*10.1	4.0	7.1	6.6	*7.7	22.3 ft	
	0 m	•	-	-	-	4.9*	4.9*	4.9*	4.9*	3.1	5.7	5.4	6.4*	2.1	3.7	3.5	4.7*	1.9	3.3	3.1	3.9*	6.5 m
	0 ft	■	-	-	-	*10.8	*10.8	*10.8	*10.8	6.8	12.6	11.9	*14.1	4.6	8.2	7.7	*10.4	4.2	7.3	6.8	*8.6	21.3 ft
	-1.5 m	•	-	-	-	5.5	8.6*	8.6*	8.6*	3.1	5.7	5.3	6.0*	-	-	-	-	2.1	3.8	3.6	4.2*	5.9 m
	-5 ft	■	-	-	-	12.1	*19.0	*19.0	*19.0	6.8	12.6	11.7	*13.2	-	-	-	-	4.6	8.4	7.9	*9.3	19.4 ft
4.7 m, 15'5" 2 piece boom 2.45 m, 8'0" dipper arm Front radial blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	3.3*	3.3*	3.3*	3.3*	4.3 m				
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	*7.3	*7.3	*7.3	*7.3	14.1 ft				
	6 m	•	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	-	-	2.5	2.7*	2.7*	2.7*	5.8 m				
	20 ft	■	-	-	-	-	-	*8.2	*8.2	*8.2	*8.2	-	-	5.5	*6.0	*6.0	*6.0	19.0 ft				
	4.5 m	•	-	-	-	-	-	3.8	4.1*	4.1*	4.1*	2.4	3.7*	3.7*	3.7*	2.0	2.6*	2.6*	2.6*	6.7 m		
	15 ft	■	-	-	-	-	-	8.4	*9.0	*9.0	*9.0	5.3	*8.2	*8.2	*8.2	4.4	*5.7	*5.7	*5.7	22.0 ft		
	3 m	•	-	-	-	6.4	7.5*	7.5*	7.5*	3.5	5.0*	5.0*	5.0*	2.3	4.0	3.7	4.0*	1.7	2.6*	2.6*	2.6*	7.1 m
	10 ft	■	-	-	-	14.1	*16.5	*16.5	*16.5	7.7	*11.0	*11.0	*11.0	5.1	8.8	8.2	*8.8	3.7	*5.7	*5.7	*5.7	23.3 ft
	1.5 m	•	-	-	-	-	-	3.2	5.9*	5.6	5.9*	2.2	3.8	3.6	4.4*	1.6	2.7*	2.7*	2.7*	7.2 m		
	5 ft	■	-	-	-	-	-	7.1	*13.0	12.3	*13.0	4.9	8.4	7.9	*9.7	3.5	*6.0	*6.0	*6.0	23.6 ft		
	0 m	•	-	-	-	5.4*	5.4*	5.4*	5.4*	3.1	5.7	5.4	6.4*	2.1	3.7	3.5	4.6*	1.7	3.0	2.8	3.1*	7.0 m
	0 ft	■	-	-	-	*11.9	*11.9	*11.9	*11.9	6.8	12.6	11.9	*14.1	4.6	8.2	7.7	*10.1	3.7	6.6	6.2	*6.8	23.0 ft
	-1.5 m	•	-	-	-	5.5	9.2*	9.2*	9.2*	3.0	5.7	5.3	6.2*	2.1	3.7	3.5	4.4*	1.9	3.4	3.2	3.7*	6.4 m
	-5 ft	■	-	-	-	12.1	*20.3	*20.3	*20.3	6.6	12.6	11.7	*13.7	4.6	8.2	7.7	*9.7	4.2	7.5	7.1	*8.2	21.0 ft
4.7 m, 15'5" 2 piece boom 2.6 m, 8'6" dipper arm Front radial blade Rear outriggers	7.5 m	•	-	-	-	-	-	3.0*	3.0*	3.0*	3.0*	-	-	-	3.0*	3.0*	3.0*	3.0*	4.5 m			
	25 ft	■	-	-	-	-	-	*6.6	*6.6	*6.6	*6.6	-	-	-	*6.6	*6.6	*6.6	*6.6	14.8 ft			
	6 m	•	-	-	-	-	-	3.5*	3.5*	3.5*	3.5*	-	-	-	2.4	2.5*	2.5*	2.5*	6.0 m			
	20 ft	■	-	-	-	-	-	*7.7	*7.7	*7.7	*7.7	-	-	-	5.3	*5.5	*5.5	*5.5	19.7 ft			
	4.5 m	•	-	-	-	-	-	3.8	3.9*	3.9*	3.9*	2.4	3.6*	3.6*	3.6*	1.9	2.4*	2.4*	2.4*	6.8 m		
	15 ft	■	-	-	-	-	-	8.4	*8.6	*8.6	*8.6	5.3	*7.9	*7.9	*7.9	4.2	*5.3	*5.3	*5.3	22.3 ft		
	3 m	•	-	-	-	6.5	7.2*	7.2*	7.2*	3.5	4.9*	4.9*	4.9*	2.3	4.0	3.8	4.0*	1.7	2.4*	2.4*	2.4*	7.3 m
	10 ft	■	-	-	-	14.3	*15.9	*15.9	*15.9	7.7	*10.8	*10.8	*10.8	5.1	8.8	8.4	*8.8	3.7	*5.3	*5.3	*5.3	24.0 ft
	1.5 m	•	-	-	-	-	-	3.3	5.8*	5.6	5.8*	2.2	3.8	3.6	4.4*	1.6	2.5*	2.5*	2.5*	7.4 m		
	5 ft	■	-	-	-	-	-	7.3	*12.8	12.3	*12.8	4.9	8.4	7.9	*9.7	3.5	*5.5	*5.5	*5.5	24.3 ft		
	0 m	•	-	-	-	5.4	5.4*	5.4*	5.4*	3.1	5.7	5.4	6.3*	2.1	3.7	3.5	4.6*	1.6	2.8*	2.7	2.8*	7.1 m
	0 ft	■	-	-	-	11.9	*11.9	*11.9	*11.9	6.8	12.6	11.9	*13.9	4.6	8.2	7.7	*10.1	3.5	*6.2	6.0	*6.2	23.3 ft
	-1.5 m	•	-	-	-	5.4	8.9*	8.9*	8.9*	3.0	5.6	5.3	6.2*	2.0	3.7	3.5	4.5*	1.8	3.3	3.1	3.4*	6.6 m
	-5 ft	■	-	-	-	11.9	*19.6	*19.6	*19.6	6.6	12.3	11.7	*13.7	4.4	8.2	7.7	*9.9	4.0	7.3	6.8	*7.5	21.7 ft

### LIFTING CAPACITY EWR150E - Welded undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

	Lifting point	Reach from machine centre (u = support up/d = support down)																					
		1.5 m, 5 ft				3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d				
4.7 m, 15'5" 2 piece boom 2.0 m, 6'7" dipper arm Radial Blade Rear	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4*	4.4*	4.4*	4.4*	3.5 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*9.7	*9.7	*9.7	*9.7	11.5 ft		
	6 m	•	-	-	-	-	-	-	-	3.6	4.1*	4.1*	4.1*	-	-	-	-	2.8	3.2	3.5*	3.5*	5.3 m	
	20 ft	■	-	-	-	-	-	-	-	7.9	*9.0	*9.0	*9.0	-	-	-	-	6.2	7.1	*7.7	*7.7	17.4 ft	
	4.5 m	•	-	-	-	-	5.6*	5.6*	5.6*	5.6*	3.5	4.0	4.5*	4.5*	2.2	2.5	3.7	4.0*	2.1	2.4	3.2*	3.2*	6.2 m
	15 ft	■	-	-	-	-	*12.3	*12.3	*12.3	*12.3	7.7	8.8	*9.9	*9.9	4.9	5.5	8.2	*8.8	4.6	5.3	*7.1	*7.1	20.3 ft
	3 m	•	-	-	-	-	-	-	-	3.3	3.8	5.3*	5.3*	2.1	2.5	3.6	4.3*	1.8	2.1	3.0	3.2*	6.7 m	
	10 ft	■	-	-	-	-	-	-	-	7.3	8.4	*11.7	*11.7	4.6	5.5	7.9	*9.5	4.0	4.6	6.6	*7.1	22.0 ft	
	1.5 m	•	-	-	-	-	-	-	-	3.0	3.5	5.4	6.1*	2.0	2.3	3.5	4.6*	1.7	2.0	2.9	3.5*	6.8 m	
	5 ft	■	-	-	-	-	-	-	-	6.6	7.7	11.9	*13.4	4.4	5.1	7.7	*10.1	3.7	4.4	6.4	*7.7	22.3 ft	
	0 m	•	-	-	-	-	4.9*	4.9*	4.9*	4.9*	2.9	3.4	5.2	6.4*	2.0	2.3	3.4	4.7*	1.7	2.0	3.0	3.9*	6.5 m
	0 ft	■	-	-	-	-	*10.8	*10.8	*10.8	*10.8	6.4	7.5	11.5	*14.1	4.4	5.1	7.5	*10.4	3.7	4.4	6.6	*8.6	21.3 ft
	-1.5 m	•	-	-	-	-	5.2	6.2	8.6*	8.6*	2.9	3.3	5.2	6.0*	-	-	-	-	2.0	2.3	3.5	4.2*	5.9 m
	-5 ft	■	-	-	-	-	11.5	13.7	*19.0	*19.0	6.4	7.3	11.5	*13.2	-	-	-	-	4.4	5.1	7.7	*9.3	19.4 ft
4.7 m, 15'5" 2 piece boom 2.45 m, 8'0" dipper arm Radial Blade Rear	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3*	3.3*	3.3*	3.3*	4.3 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*7.3	*7.3	*7.3	*7.3	14.1 ft		
	6 m	•	-	-	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	-	-	-	-	2.4	2.7	2.7*	2.7*	5.8 m	
	20 ft	■	-	-	-	-	-	-	-	*8.2	*8.2	*8.2	*8.2	-	-	-	-	5.3	6.0	*6.0	*6.0	19.0 ft	
	4.5 m	•	-	-	-	-	-	-	-	3.6	4.1*	4.1*	4.1*	2.3	2.6	3.7*	3.7*	1.9	2.1	2.6*	2.6*	6.7 m	
	15 ft	■	-	-	-	-	-	-	-	7.9	*9.0	*9.0	*9.0	5.1	5.7	*8.2	*8.2	4.2	4.6	*5.7	*5.7	22.0 ft	
	3 m	•	-	-	-	-	6.1	7.1	7.5*	7.5*	3.3	3.8	5.0*	5.0*	2.2	2.5	3.6	4.0*	1.6	1.9	2.6*	2.6*	7.1 m
	10 ft	■	-	-	-	-	13.4	15.7	*16.5	*16.5	7.3	8.4	*11.0	*11.0	4.9	5.5	7.9	*8.8	3.5	4.2	*5.7	*5.7	23.3 ft
	1.5 m	•	-	-	-	-	-	-	-	3.1	3.5	5.4	5.9*	2.0	2.4	3.5	4.4*	1.5	1.8	2.6	2.7*	7.2 m	
	5 ft	■	-	-	-	-	-	-	-	6.8	7.7	11.9	*13.0	4.4	5.3	7.7	*9.7	3.3	4.0	5.7	23.6 ft		
	0 m	•	-	-	-	-	5.1	5.4*	5.4*	5.4*	2.9	3.4	5.2	6.4*	2.0	2.3	3.4	4.6*	1.6	1.8	2.7	3.1*	7.0 m
	0 ft	■	-	-	-	-	11.2	*11.9	*11.9	*11.9	6.4	7.5	11.5	*14.1	4.4	5.1	7.5	*10.1	3.5	4.0	6.0	*6.8	23.0 ft
	-1.5 m	•	-	-	-	-	5.1	6.1	9.2*	9.2*	2.8	3.3	5.1	6.2*	1.9	2.2	3.4	4.4*	1.8	2.1	3.1	3.7*	6.4 m
	-5 ft	■	-	-	-	-	11.2	13.4	*20.3	*20.3	6.2	7.3	11.2	*13.7	4.2	4.9	7.5	*9.7	4.0	4.6	6.8	*8.2	21.0 ft
4.7 m, 15'5" 2 piece boom 2.6 m, 8'6" dipper arm Radial Blade Rear	7.5 m	•	-	-	-	-	-	-	-	3.1*	3.0*	3.1*	3.0*	-	-	-	-	3.1*	3.0*	3.1*	3.0*	4.5 m	
	25 ft	■	-	-	-	-	-	-	-	*6.8	*6.6	*6.8	*6.6	-	-	-	-	*6.8	*6.6	*6.8	*6.6	14.8 ft	
	6 m	•	-	-	-	-	-	-	-	3.5*	3.5*	3.5*	3.5*	-	-	-	-	2.3	2.5*	2.6*	2.5*	6.0 m	
	20 ft	■	-	-	-	-	-	-	-	*7.7	*7.7	*7.7	*7.7	-	-	-	-	5.1	*5.5	*5.7	*5.5	19.7 ft	
	4.5 m	•	-	-	-	-	-	-	-	3.6	3.9*	3.9*	3.9*	2.3	2.6	3.6*	3.6*	1.8	2.1	2.4*	2.4*	6.8 m	
	15 ft	■	-	-	-	-	-	-	-	7.9	*8.6	*8.6	*8.6	5.1	5.7	*7.9	*7.9	4.0	4.6	*5.3	*5.3	22.3 ft	
	3 m	•	-	-	-	-	6.1	7.2*	7.1*	7.2*	3.3	3.9	4.8*	4.9*	2.2	2.5	3.6	4.0*	1.6	1.8	2.4*	2.4*	7.3 m
	10 ft	■	-	-	-	-	13.4	*15.9	*15.7	*15.9	7.3	8.6	*10.6	*10.8	4.9	5.5	7.9	*8.8	3.5	4.0	*5.3	*5.3	24.0 ft
	1.5 m	•	-	-	-	-	-	-	-	3.0	3.6	5.4	5.8*	2.0	2.4	3.5	4.4*	1.5	1.7	2.5*	2.5*	7.4 m	
	5 ft	■	-	-	-	-	-	-	-	6.6	7.9	11.9	*12.8	4.4	5.3	7.7	*9.7	3.3	3.7	*5.5	*5.5	24.3 ft	
	0 m	•	-	-	-	-	5.1	5.4*	5.5*	5.4*	2.9	3.4	5.2	6.3*	1.9	2.3	3.4	4.6*	1.5	1.8	2.6	2.8*	7.1 m
	0 ft	■	-	-	-	-	11.2	*11.9	*12.1	*11.9	6.4	7.5	11.5	*13.9	4.2	5.1	7.5	*10.1	3.3	4.0	5.7	*6.2	23.3 ft
	-1.5	•	-	-	-	-	5.1	6.1	9.0*	8.9*	2.8	3.3	5.1	6.2*	1.9	2.2	3.3	4.5*	1.7	2.0	3.0	3.4*	6.6 m
	-5 ft	■	-	-	-	-	11.2	13.4	*19.8	*19.6	6.2	7.3	11.2	*13.7	4.2	4.9	7.3	*9.9	3.7	4.4	6.6	*7.5	21.7 ft

# Specifications

## EWR150E

### LIFTING CAPACITY EWR150E - Bolted undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

	Lifting point		Reach from machine centre (u = support up/d = support down)																				
			1.5 m, 5 ft				3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				Max.				
			Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		u		d		
4.5 m, 14'9" mono boom 2.0 m, 6'7" dipper arm Front Parallel blade Rear outriggers	6 m	•	-	-	-	-	-	-	-	4.0	4.1*	4.1*	4.1*	-	-	-	-	3.4*	3.4*	3.4*	3.4*	4.9 m	
	20 ft	■	-	-	-	-	-	-	-	8.8	*9.0	*9.0	*9.0	-	-	-	-	*7.5	*7.5	*7.5	*7.5	16.1 ft	
	4.5 m	•	-	-	-	-	-	-	-	4.0	4.4*	4.4*	4.4*	-	-	-	-	2.6	3.2*	3.2*	3.2*	5.9 m	
	15 ft	■	-	-	-	-	-	-	-	8.8	*9.7	*9.7	*9.7	-	-	-	-	5.7	*7.1	*7.1	*7.1	19.4 ft	
	3 m	•	-	-	-	-	6.8	8.0*	8.0*	8.0*	3.8	5.3*	5.3*	5.3*	2.5	4.2	3.9	4.3*	2.2	3.3*	3.3*	3.3*	6.4 m
	10 ft	■	-	-	-	-	15.0	*17.6	*17.6	*17.6	8.4	*11.7	*11.7	*11.7	5.5	9.3	8.6	*9.5	4.9	*7.3	*7.3	*7.3	21.0 ft
	1.5 m	•	-	-	-	-	-	-	-	3.6	6.2*	5.9	6.2*	2.4	4.1	3.8	4.7*	2.1	3.6*	3.4	3.6*	6.5 m	
	5 ft	■	-	-	-	-	-	-	-	7.9	*13.7	13.0	*13.7	5.3	9.0	8.4	*10.4	4.6	*7.9	7.5	*7.9	21.3 ft	
	0 m	•	-	-	-	-	6.1	7.0*	7.0*	7.0*	3.5	6.2	5.7	6.6*	2.4	4.1	3.8	4.8*	2.2	3.8	3.5	4.2*	6.3 m
	0 ft	■	-	-	-	-	13.4	*15.4	*15.4	*15.4	7.7	13.7	12.6	*14.6	5.3	9.0	8.4	*10.6	4.9	8.4	7.7	*9.3	20.7 ft
	-1.5 m	•	-	-	-	-	6.2	9.3*	9.3*	9.3*	3.4	6.2	5.7	6.3*	-	-	-	-	2.6	4.5	4.2	4.7*	5.6 m
	-5 ft	■	-	-	-	-	13.7	*20.5	*20.5	*20.5	7.5	13.7	12.6	*13.9	-	-	-	-	5.7	9.9	9.3	*10.4	18.4 ft
	-3 m	•	-	-	-	-	6.3	7.0*	7.0*	7.0*	-	-	-	-	-	-	-	3.8	4.7*	4.7*	4.7*	4.3 m	
	-10 ft	■	-	-	-	-	13.9	*15.4	*15.4	*15.4	-	-	-	-	-	-	-	8.4	*10.4	*10.4	*10.4	14.1 ft	
4.5 m, 14'9" mono boom 2.45 m, 8'0" dipper arm Front Parallel blade Rear outriggers	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7*	2.7*	2.7*	2.7*	5.5 m	
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*6.0	*6.0	*6.0	*6.0	18.0 ft	
	4.5 m	•	-	-	-	-	-	-	-	3.9*	3.9*	3.9*	3.9*	2.6	2.8	3.7*	3.7*	2.3	2.5	2.6*	2.6*	6.4 m	
	15 ft	■	-	-	-	-	-	-	-	*8.6	*8.6	*8.6	*8.6	5.7	6.2	*8.2	*8.2	5.1	5.5	*5.7	*5.7	21.0 ft	
	3 m	•	-	-	-	-	7.0	7.0*	7.0*	7.0*	3.8	4.4	4.9*	4.9*	2.5	2.8	3.9	4.1*	2.0	2.2	2.6*	2.6*	6.8 m
	10 ft	■	-	-	-	-	15.4	*15.4	*15.4	*15.4	8.4	9.7	*10.8	*10.8	5.5	6.2	8.6	*9.0	4.4	4.9	*5.7	*5.7	22.3 ft
	1.5 m	•	-	-	-	-	6.3	6.8*	6.8*	6.8*	3.6	4.2	5.9	5.9*	2.4	2.7	3.8	4.5*	2.0	2.1	2.8*	2.8*	6.9 m
	5 ft	■	-	-	-	-	13.9	*15.0	*15.0	*15.0	7.9	9.3	13.0	*13.0	5.3	6.0	8.4	*9.9	4.4	4.6	*6.2	*6.2	22.6 ft
	0 m	•	-	-	-	-	6.1	7.2*	7.2*	7.2*	3.4	4.0	5.7	6.5*	2.3	2.6	3.7	4.8*	2.0	2.2	3.2	3.2*	6.7 m
	0 ft	■	-	-	-	-	13.4	*15.9	*15.9	*15.9	7.5	8.8	12.6	*14.3	5.1	5.7	8.2	*10.6	4.4	4.9	7.1	*7.1	22.0 ft
	-1.5 m	•	5.8*	5.8*	5.8*	5.8*	6.1	8.2	9.7*	9.7*	3.4	3.9	5.7	6.4*	2.3	2.6	3.7	4.5*	2.3	2.5	3.7	4.1*	6.1 m
	-5 ft	■	*12.8	*12.8	*12.8	*12.8	13.4	18.1	*21.4	*21.4	7.5	8.6	12.6	*14.1	5.1	5.7	8.2	*9.9	5.1	5.5	8.2	*9.0	20.0 ft
	-3 m	•	-	-	-	-	6.2	7.9*	7.9*	7.9*	3.5	4.0	5.3*	5.3*	-	-	-	-	3.1	3.5	4.6*	4.6*	4.9 m
	-10 ft	■	-	-	-	-	13.7	*17.4	*17.4	*17.4	7.7	8.8	*11.7	*11.7	-	-	-	-	6.8	7.7	*10.1	*10.1	16.1 ft
	-4.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-15 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.5 m, 14'9" mono boom 2.6 m, 8'6" dipper arm Front Parallel blade Rear outriggers	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5*	2.5*	2.5*	2.5*	5.6 m	
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*5.5	*5.5	*5.5	*5.5	18.4 ft	
	4.5 m	•	-	-	-	-	-	-	-	3.8*	3.8*	3.8*	3.8*	2.6	3.6*	3.6*	3.6*	2.2	2.4*	2.4*	2.4*	6.5 m	
	15 ft	■	-	-	-	-	-	-	-	*8.4	*8.4	*8.4	*8.4	5.7	*7.9	*7.9	*7.9	4.9	*5.3	*5.3	*5.3	21.3 ft	
	3 m	•	-	-	-	-	6.7*	6.7*	6.7*	6.7*	3.8	4.7*	4.7*	4.7*	2.5	4.0*	3.9	4.0*	2.0	2.4*	2.4*	2.4*	7.0 m
	10 ft	■	-	-	-	-	*14.8	*14.8	*14.8	*14.8	8.4	*10.4	*10.4	*10.4	5.5	*8.8	8.6	*8.8	4.4	*5.3	*5.3	*5.3	23.0 ft
	1.5 m	•	-	-	-	-	6.4	7.7*	7.7*	7.7*	3.6	5.8*	5.8*	5.8*	2.4	4.1	3.8	4.4*	1.9	2.6*	2.6*	2.6*	7.1 m
	5 ft	■	-	-	-	-	14.1	*17.0	*17.0	*17.0	7.9	*12.8	*12.8	*12.8	5.3	9.0	8.4	*9.7	4.2	*5.7	*5.7	*5.7	23.3 ft
	0 m	•	-	-	-	-	6.1	7.3*	7.3*	7.3*	3.4	6.2	5.7	6.5*	2.3	4.1	3.7	4.7*	1.9	3.0*	3.0*	3.0*	6.9 m
	0 ft	■	-	-	-	-	13.4	*16.1	*16.1	*16.1	7.5	13.7	12.6	*14.3	5.1	9.0	8.2	*10.4	4.2	*6.6	*6.6	*6.6	22.6 ft
	-1.5 m	•	5.6*	5.6*	5.6*	5.6*	6.1	9.8*	9.8*	9.8*	3.4	6.2	5.7	6.5*	2.3	4.0	3.7	4.6*	2.2	3.8*	3.5	3.8*	6.2 m
	-5 ft	■	*12.3	*12.3	*12.3	*12.3	13.4	*21.6	*21.6	*21.6	7.5	13.7	12.6	*14.3	5.1	8.8	8.2	*10.1	4.9	*8.4	7.7	*8.4	20.3 ft
	-3 m	•	-	-	-	-	6.2	8.2*	8.2*	8.2*	3.4	5.5*	5.5*	5.5*	-	-	-	-	2.9	4.5*	4.5*	4.5*	5.1 m
	-10 ft	■	-	-	-	-	13.7	*18.1	*18.1	*18.1	7.5	*12.1	*12.1	*12.1	-	-	-	-	6.4	*9.9	*9.9	*9.9	16.7 ft

### LIFTING CAPACITY EWR150E - Bolted undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Lifting point		Reach from machine centre (u = support up/d = support down)																					
		1.5 m, 5 ft		3.0 m, 10 ft		4.5 m, 15 ft		6.0 m, 20 ft		Max.													
		Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	u	d	u	d						
4.5 m, 14'9" mono boom 2.0 m, 6'7" dipper arm Parallel Blade Rear	6 m	•	-	-	-	-	-	3.7	4.1*	4.1*	4.1*	-	-	-	-	3.2	3.4*	3.4*	3.4*	4.9 m			
	20 ft	■	-	-	-	-	-	8.2	*9.0	*9.0	*9.0	-	-	-	-	7.1	*7.5	*7.5	*7.5	16.1 ft			
	4.5 m	•	-	-	-	-	-	3.7	4.2	4.4*	4.4*	-	-	-	-	2.4	2.7	3.2*	3.2*	5.9 m			
	15 ft	■	-	-	-	-	-	8.2	9.3	*9.7	*9.7	-	-	-	-	5.3	6.0	*7.1	*7.1	19.4 ft			
	3 m	•	-	-	-	-	6.2	7.3	8.0*	8.0*	3.5	4.0	5.3*	5.3*	2.3	2.6	3.8	4.3*	2.0	2.3	3.3*	3.3*	6.4 m
	10 ft	■	-	-	-	13.7	16.1	*17.6	*17.6	7.7	8.8	*11.7	*11.7	5.1	5.7	8.4	*9.5	4.4	5.1	*7.3	*7.3	21.0 ft	
	1.5 m	•	-	-	-	-	-	3.2	3.7	5.7	6.2*	2.2	2.5	3.7	4.7*	1.9	2.2	3.3	3.6*	6.5 m			
	5 ft	■	-	-	-	-	-	7.1	8.2	12.6	*13.7	4.9	5.5	8.2	*10.4	4.2	4.9	7.3	*7.9	21.3 ft			
	0 m	•	-	-	-	5.6	6.6	7.0*	7.0*	3.1	3.6	5.5	6.6*	2.1	2.5	3.6	4.8*	2.0	2.3	3.4	4.2*	6.3 m	
	0 ft	■	-	-	-	12.3	14.6	*15.4	*15.4	6.8	7.9	12.1	*14.6	4.6	5.5	7.9	*10.6	4.4	5.1	7.5	*9.3	20.7 ft	
	-1.5 m	•	-	-	-	5.6	6.6	9.3*	9.3*	3.1	3.6	5.5	6.3*	-	-	-	-	2.3	2.7	4.0	4.7*	5.6 m	
	-5 ft	■	-	-	-	12.3	14.6	*20.5	*20.5	6.8	7.9	12.1	*13.9	-	-	-	-	5.1	6.0	8.8	*10.4	18.4 ft	
	-3 m	•	-	-	-	5.8	6.8	7.0*	7.0*	-	-	-	-	-	-	-	-	3.4	4.0	4.7*	4.7*	4.3 m	
	-10 ft	■	-	-	-	12.8	15.0	*15.4	*15.4	-	-	-	-	-	-	-	7.5	8.8	*10.4	*10.4	14.1 ft		
4.5 m, 14'9" mono boom 2.45 m, 8'0" dipper arm Parallel Blade Rear	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7*	2.2	2.7*	2.7*	5.5 m		
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*6.0	4.9	*6.0	*6.0	18.0 ft		
	4.5 m	•	-	-	-	-	-	3.7	3.0	3.9*	3.9*	2.4	1.8	3.7*	3.7*	2.1	1.6	2.6*	2.6*	6.4 m			
	15 ft	■	-	-	-	-	-	8.2	6.6	*8.6	*8.6	5.3	4.0	*8.2	*8.2	4.6	3.5	*5.7	*5.7	21.0 ft			
	3 m	•	-	-	-	6.4	5.3	7.0*	7.0*	3.5	2.8	4.9*	4.9*	2.3	1.8	3.8	4.1*	1.9	1.4	2.6*	2.6*	6.8 m	
	10 ft	■	-	-	-	14.1	11.7	*15.4	*15.4	7.7	6.2	*10.8	*10.8	5.1	4.0	8.4	*9.0	4.2	3.1	*5.7	*5.7	22.3 ft	
	1.5 m	•	-	-	-	5.8	4.7	6.8*	6.8*	3.3	2.6	5.7	5.9*	2.2	1.7	3.7	4.0	1.8	1.3	2.8*	2.8*	6.9 m	
	5 ft	■	-	-	-	12.8	10.4	*15.0	*15.0	7.3	5.7	12.6	*13.0	4.9	3.7	8.2	8.8	4.0	2.9	*6.2	*6.2	22.6 ft	
	0 m	•	-	-	-	5.6	4.4	7.2*	7.2*	3.1	2.4	5.5	6.5	2.1	1.6	3.6	3.9	1.8	1.4	3.1	3.2*	6.7 m	
	0 ft	■	-	-	-	12.3	9.7	*15.9	*15.9	6.8	5.3	12.1	14.3	4.6	3.5	7.9	8.6	4.0	3.1	6.8	*7.1	22.0 ft	
	-1.5 m	•	5.8*	5.8*	5.8*	5.8*	5.6	4.4	9.7*	9.7*	3.1	2.4	5.5	6.4	2.1	1.6	3.6	3.9	2.1	1.6	3.5	3.8	6.1 m
	-5 ft	■	*12.8	*12.8	*12.8	*12.8	12.3	9.7	*21.4	*21.4	6.8	5.3	12.1	14.1	4.6	3.5	7.9	8.6	4.6	3.5	7.7	8.4	20.0 ft
	-3 m	•	-	-	-	5.7	4.6	7.9*	7.9*	3.1	2.4	5.3*	5.3*	-	-	-	-	2.8	2.2	4.6*	4.6*	4.9 m	
	-10 ft	■	-	-	-	12.6	10.1	*17.4	*17.4	6.8	5.3	*11.7	*11.7	-	-	-	-	6.2	4.9	*10.1	*10.1	16.1 ft	
4.5 m, 14'9" mono boom 2.6 m, 8'6" dipper arm Parallel Blade Rear	6 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5*	2.5*	2.5*	2.5*	5.6 m		
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*5.5	*5.5	*5.5	*5.5	18.4 ft		
	4.5 m	•	-	-	-	-	-	3.7	3.8*	3.8*	3.8*	2.4	2.7	3.6*	3.6*	2.0	2.3	2.4*	2.4*	6.5 m			
	15 ft	■	-	-	-	-	-	8.2	*8.4	*8.4	*8.4	5.3	6.0	*7.9	*7.9	4.4	5.1	*5.3	*5.3	21.3 ft			
	3 m	•	-	-	-	6.5	6.7*	6.7*	6.7*	3.5	4.0	4.7*	4.7*	2.3	2.6	3.8	4.0*	1.8	2.1	2.4*	2.4*	7.0 m	
	10 ft	■	-	-	-	14.3	*14.8	*14.8	*14.8	7.7	8.8	*10.4	*10.4	5.1	5.7	8.4	*8.8	4.0	4.6	*5.3	*5.3	23.0 ft	
	1.5 m	•	-	-	-	5.8	6.9	7.7*	7.7*	3.3	3.8	5.7	5.8*	2.2	2.5	3.7	4.4*	1.7	2.0	2.6*	2.6*	7.1 m	
	5 ft	■	-	-	-	12.8	15.2	*17.0	*17.0	7.3	8.4	12.6	*12.8	4.9	5.5	8.2	*9.7	3.7	4.4	*5.7	*5.7	23.3 ft	
	0 m	•	-	-	-	5.6	6.6	7.3*	7.3*	3.1	3.6	5.5	6.5*	2.1	2.4	3.6	4.7*	1.8	2.0	3.0	3.0*	6.9 m	
	0 ft	■	-	-	-	12.3	14.6	*16.1	*16.1	6.8	7.9	12.1	*14.3	4.6	5.3	7.9	*10.4	4.0	4.4	6.6	*6.6	22.6 ft	
	-1.5 m	•	5.6*	5.6*	5.6*	5.6*	5.5	6.6	9.8*	9.8*	3.1	3.6	5.5	6.5*	2.1	2.4	3.6	4.6*	2.0	2.3	3.4	3.8*	6.2 m
	-5 ft	■	*12.3	*12.3	*12.3	*12.3	12.1	14.6	*21.6	*21.6	6.8	7.9	12.1	*14.3	4.6	5.3	7.9	*10.1	4.4	5.1	7.5	*8.4	20.3 ft
	-3 m	•	-	-	-	5.6	6.7	8.2*	8.2*	3.1	3.6	5.5*	5.5*	-	-	-	-	2.6	3.0	4.5*	4.5*	5.1 m	
	-10 ft	■	-	-	-	12.3	14.8	*18.1	*18.1	6.8	7.9	*12.1	*12.1	-	-	-	-	5.7	6.6	*9.9	*9.9	16.7 ft	

# Specifications

## EWR150E

### LIFTING CAPACITY EWR150E - Bolted undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

	Lifting point		Reach from machine centre (u = support up/d = support down)																			
			1.5 m, 5 ft		3.0 m, 10 ft		4.5 m, 15 ft		6.0 m, 20 ft		Max.											
			Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	u	d								
4.7 m, 15'5" 2 piece boom 2.0 m, 6'7" dipper arm Front parallel blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	4.4*	4.4*	4.4*	4.4*	3.5 m					
	25 ft	■	-	-	-	-	-	-	-	-	-	-	*9.7	*9.7	*9.7	*9.7	11.5 ft					
	6 m	•	-	-	-	-	-	4.1	4.1*	4.1*	4.1*	-	-	-	3.1	3.5*	3.5*	3.5*	5.3 m			
	20 ft	■	-	-	-	-	-	9.0	*9.0	*9.0	*9.0	-	-	-	6.8	*7.7	*7.7	*7.7	17.4 ft			
	4.5 m	•	-	-	-	5.6*	5.6*	5.6*	4.0	4.5*	4.5*	4.5*	2.5	4.0*	4.0	4.0*	2.4	3.2*	3.2*	3.2*	6.2 m	
	15 ft	■	-	-	-	*12.3	*12.3	*12.3	8.8	*9.9	*9.9	*9.9	5.5	*8.8	8.8	*8.8	5.3	*7.1	*7.1	*7.1	20.3 ft	
	3 m	•	-	-	-	-	-	3.7	5.3*	5.3*	5.3*	2.4	4.2	3.9	4.3*	2.1	3.2*	3.2*	3.2*	6.7 m		
	10 ft	■	-	-	-	-	-	8.2	*11.7	*11.7	*11.7	5.3	9.3	8.6	*9.5	4.6	*7.1	*7.1	*7.1	22.0 ft		
	1.5 m	•	-	-	-	-	-	3.5	6.1*	5.8	6.1*	2.3	4.1	3.8	4.6*	2.0	3.4	3.1	3.5*	6.8 m		
	5 ft	■	-	-	-	-	-	7.7	*13.4	12.8	*13.4	5.1	9.0	8.4	*10.1	4.4	7.5	6.8	*7.7	22.3 ft		
	0 m	•	-	-	-	4.9*	4.9*	4.9*	4.9*	3.3	6.1	5.6	6.4*	2.3	4.0	3.7	4.7*	2.0	3.6	3.3	3.9*	6.5 m
	0 ft	■	-	-	-	*10.8	*10.8	*10.8	*10.8	7.3	13.4	12.3	*14.1	5.1	8.8	8.2	*10.4	4.4	7.9	7.3	*8.6	21.3 ft
	-1.5 m	•	-	-	-	5.9	8.6*	8.6*	8.6*	3.3	6.0*	5.6	6.0*	-	-	-	2.3	4.1	3.8	4.2*	5.9 m	
	-5 ft	■	-	-	-	13.0	*19.0	*19.0	*19.0	7.3	*13.2	12.3	*13.2	-	-	-	5.1	9.0	8.4	*9.3	19.4 ft	
4.7 m, 15'5" 2 piece boom 2.45 m, 8'0" dipper arm Front parallel blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	3.3*	3.3*	3.3*	3.3*	4.3 m				
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	*7.3	*7.3	*7.3	*7.3	14.1 ft				
	6 m	•	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	-	-	-	2.7	2.7*	2.7*	2.7*	5.8 m			
	20 ft	■	-	-	-	-	-	*8.2	*8.2	*8.2	*8.2	-	-	-	6.0	*6.0	*6.0	*6.0	19.0 ft			
	4.5 m	•	-	-	-	-	-	4.0	4.1*	4.1*	4.1*	2.6	3.7*	3.7*	3.7*	2.1	2.6*	2.6*	2.6*	6.7 m		
	15 ft	■	-	-	-	-	-	8.8	*9.0	*9.0	*9.0	5.7	*8.2	*8.2	*8.2	4.6	*5.7	*5.7	*5.7	22.0 ft		
	3 m	•	-	-	-	6.8	7.5*	7.5*	7.5*	3.8	5.0*	5.0*	5.0*	2.5	4.0*	3.9	4.0*	1.9	2.6*	2.6*	2.6*	7.1 m
	10 ft	■	-	-	-	15.0	*16.5	*16.5	*16.5	8.4	*11.0	*11.0	*11.0	5.5	*8.8	8.6	*8.8	4.2	*5.7	*5.7	*5.7	23.3 ft
	1.5 m	•	-	-	-	-	-	3.5	5.9*	5.8	5.9*	2.3	4.1	3.8	4.4*	1.8	2.7*	2.7*	2.7*	7.2 m		
	5 ft	■	-	-	-	-	-	7.7	*13.0	12.8	*13.0	5.1	9.0	8.4	*9.7	4.0	*6.0	*6.0	*6.0	23.6 ft		
	0 m	•	-	-	-	5.4*	5.4*	5.4*	5.4*	3.3	6.1	5.6	6.4*	2.3	4.0	3.7	4.6*	1.8	3.1*	3.0	3.1*	7.0 m
	0 ft	■	-	-	-	*11.9	*11.9	*11.9	*11.9	7.3	13.4	12.3	*14.1	5.1	8.8	8.2	*10.1	4.0	*6.8	6.6	*6.8	23.0 ft
	-1.5 m	•	-	-	-	5.9	9.2*	9.2*	9.2*	3.3	6.1	5.6	6.2*	2.2	4.0	3.7	4.4*	2.1	3.6	3.4	3.7*	6.4 m
	-5 ft	■	-	-	-	13.0	*20.3	*20.3	*20.3	7.3	13.4	12.3	*13.7	4.9	8.8	8.2	*9.7	4.6	7.9	7.5	*8.2	21.0 ft
4.7 m, 15'5" 2 piece boom 2.6 m, 8'6" dipper arm Front parallel blade Rear outriggers	7.5 m	•	-	-	-	-	-	3.0*	3.0*	3.0*	3.0*	-	-	-	3.0*	3.0*	3.0*	3.0*	4.5 m			
	25 ft	■	-	-	-	-	-	*6.6	*6.6	*6.6	*6.6	-	-	-	*6.6	*6.6	*6.6	*6.6	14.8 ft			
	6 m	•	-	-	-	-	-	3.5*	3.5*	3.5*	3.5*	-	-	-	2.5*	2.5*	2.5*	2.5*	6.0 m			
	20 ft	■	-	-	-	-	-	*7.7	*7.7	*7.7	*7.7	-	-	-	*5.5	*5.5	*5.5	*5.5	19.7 ft			
	4.5 m	•	-	-	-	-	-	3.9*	3.9*	3.9*	3.9*	2.6	3.6*	3.6*	3.6*	2.0	2.4*	2.4*	2.4*	6.8 m		
	15 ft	■	-	-	-	-	-	*8.6	*8.6	*8.6	*8.6	5.7	*7.9	*7.9	*7.9	4.4	*5.3	*5.3	*5.3	22.3 ft		
	3 m	•	-	-	-	6.9	7.2*	7.2*	7.2*	3.8	4.9*	4.9*	4.9*	2.5	4.0*	3.9	4.0*	1.8	2.4*	2.4*	2.4*	7.3 m
	10 ft	■	-	-	-	15.2	*15.9	*15.9	*15.9	8.4	*10.8	*10.8	*10.8	5.5	*8.8	8.6	*8.8	4.0	*5.3	*5.3	*5.3	24.0 ft
	1.5 m	•	-	-	-	-	-	3.5	5.8*	5.8*	5.8*	2.3	4.1	3.8	4.4*	1.7	2.5*	2.5*	2.5*	7.4 m		
	5 ft	■	-	-	-	-	-	7.7	*12.8	*12.8	*12.8	5.1	9.0	8.4	*9.7	3.7	*5.5	*5.5	*5.5	24.3 ft		
	0 m	•	-	-	-	5.4*	5.4*	5.4*	5.4*	3.3	6.1	5.6	6.3*	2.2	4.0	3.7	4.6*	1.8	2.8*	2.8*	2.8*	7.1 m
	0 ft	■	-	-	-	*11.9	*11.9	*11.9	*11.9	7.3	13.4	12.3	*13.9	4.9	8.8	8.2	*10.1	4.0	*6.2	*6.2	*6.2	23.3 ft
	-1.5 m	•	-	-	-	5.9	8.9*	8.9*	8.9*	3.2	6.1	5.5	6.2*	2.2	4.0	3.6	4.5*	2.0	3.4*	3.2	3.4*	6.6 m
	-5 ft	■	-	-	-	13.0	*19.6	*19.6	*19.6	7.1	13.4	12.1	*13.7	4.9	8.8	7.9	*9.9	4.4	*7.5	7.1	*7.5	21.7 ft

### LIFTING CAPACITY EWR150E - Bolted undercarriage

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

Lifting point		Reach from machine centre (u = support up/d = support down)																					
		1.5 m, 5 ft				3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.					
4.7 m, 15'5" 2 piece boom 2.0 m, 6'7" dipper arm Parallel Blade Rear	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4*	4.4*	4.4*	4.4*	3.5 m			
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	9.7	9.7	9.7	11.5 ft			
	6 m	•	-	-	-	-	-	-	-	3.8	4.1*	4.1*	4.1*	-	-	-	2.9	3.3	3.5*	3.5*	5.3 m		
	20 ft	■	-	-	-	-	-	-	8.4	*9.0	*9.0	*9.0	-	-	-	6.4	7.3	*7.7	*7.7	17.4 ft			
	4.5 m	•	-	-	-	-	5.6*	5.6*	5.6*	5.6*	3.6	4.2	4.5*	4.5*	2.3	2.6	3.8	4.0*	2.2	2.5	3.2*	3.2*	6.2 m
	15 ft	■	-	-	-	-	*12.3	*12.3	*12.3	*12.3	7.9	9.3	*9.9	*9.9	5.1	5.7	8.4	*8.8	4.9	5.5	*7.1	*7.1	20.3 ft
	3 m	•	-	-	-	-	-	-	-	3.4	3.9	5.3*	5.3*	2.2	2.5	3.8	4.3*	1.9	2.1	3.2	3.2*	6.7 m	
	10 ft	■	-	-	-	-	-	-	7.5	8.6	*11.7	*11.7	4.9	5.5	8.4	*9.5	4.2	4.6	7.1	*7.1	22.0 ft		
	1.5 m	•	-	-	-	-	-	-	3.1	3.6	5.6	6.1*	2.1	2.4	3.6	4.6*	1.8	2.0	3.0	3.5*	6.8 m		
	5 ft	■	-	-	-	-	-	-	6.8	7.9	12.3	*13.4	4.6	5.3	7.9	*10.1	4.0	4.4	6.6	*7.7	22.3 ft		
	0 m	•	-	-	-	-	4.9*	4.9*	4.9*	4.9*	3.0	3.5	5.4	6.4*	2.0	2.4	3.6	4.7*	1.8	2.1	3.2	3.9*	6.5 m
	0 ft	■	-	-	-	-	*10.8	*10.8	*10.8	*10.8	6.6	7.7	11.9	*14.1	4.4	5.3	7.9	*10.4	4.0	4.6	7.1	*8.6	21.3 ft
4.7 m, 15'5" 2 piece boom 2.45 m, 8'0" dipper arm Parallel Blade Rear	-1.5 m	•	-	-	-	-	5.4	6.4	8.6*	8.6*	3.0	3.5	5.4	6.0*	-	-	-	2.1	2.4	3.7	4.2*	5.9 m	
	-5 ft	■	-	-	-	-	11.9	14.1	*19.0	*19.0	6.6	7.7	11.9	*13.2	-	-	-	4.6	5.3	8.2	*9.3	19.4 ft	
	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3*	3.3*	3.3*	3.3*	4.3 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3	7.3	7.3	7.3	14.1 ft			
	6 m	•	-	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	-	-	-	2.5	2.7*	2.7*	2.7*	5.8 m			
	20 ft	■	-	-	-	-	-	-	*8.2	*8.2	*8.2	*8.2	-	-	-	5.5	*6.0	*6.0	*6.0	19.0 ft			
	4.5 m	•	-	-	-	-	-	-	3.7	4.1*	4.1*	4.1*	2.3	2.7	3.7*	3.7*	1.9	2.2	2.6*	2.6*	6.7 m		
	15 ft	■	-	-	-	-	-	-	8.2	*9.0	*9.0	*9.0	5.1	6.0	*8.2	*8.2	4.2	4.9	*5.7	*5.7	22.0 ft		
	3 m	•	-	-	-	-	6.3	7.4	7.5*	7.5*	3.4	4.0	5.0*	5.0*	2.2	2.6	3.8	4.0*	1.7	1.9	2.6*	2.6*	7.1 m
	10 ft	■	-	-	-	-	13.9	16.3	*16.5	*16.5	7.5	8.8	*11.0	*11.0	4.9	5.7	8.4	*8.8	3.7	4.2	*5.7	*5.7	23.3 ft
	1.5 m	•	-	-	-	-	-	-	3.2	3.7	5.6	5.9*	2.1	2.4	3.7	4.4*	1.6	1.9	2.7*	2.7*	7.2 m		
	5 ft	■	-	-	-	-	-	-	7.1	8.2	12.3	*13.0	4.6	5.3	8.2	*9.7	3.5	4.2	*6.0	*6.0	23.6 ft		
	0 m	•	-	-	-	-	5.3	5.4*	5.4*	5.4*	3	3.5	5.4	6.4*	2	2.4	3.6	4.6*	1.6	1.9	2.9	3.1*	7 m
	0 ft	■	-	-	-	-	11.7	*11.9	*11.9	*11.9	6.6	7.7	11.9	*14.1	4.4	5.3	7.9	*10.1	3.5	4.2	6.4	*6.8	23.0 ft
4.7 m, 15'5" 2 piece boom 2.6 m, 8'6" dipper arm Parallel Blade Rear	-1.5 m	•	-	-	-	-	5.3	6.4	9.2*	9.2*	2.9	3.4	5.4	6.2*	2	2.3	3.5	4.4*	1.8	2.1	3.2	3.7*	6.4 m
	-5 ft	■	-	-	-	-	11.7	14.1	*20.3	*20.3	6.4	7.5	11.9	*13.7	4.4	5.1	7.7	*9.7	4.0	4.6	7.1	*8.2	21.0 ft
	7.5 m	•	-	-	-	-	-	-	3.1*	3.0*	3.1*	3.0*	-	-	-	3.1*	3.0*	3.1*	3.0*	4.5 m			
	25 ft	■	-	-	-	-	-	-	*6.8	*6.6	*6.8	*6.6	-	-	-	*6.8	*6.6	*6.8	*6.6	14.8 ft			
	6 m	•	-	-	-	-	-	-	3.5*	3.5*	3.5*	3.5*	-	-	-	2.4	2.5*	2.6*	2.5*	6.0 m			
	20 ft	■	-	-	-	-	-	-	*7.7	*7.7	*7.7	*7.7	-	-	-	5.3	*5.5	*5.7	*5.5	19.7 ft			
	4.5 m	•	-	-	-	-	-	-	3.7	3.9*	3.9*	3.9*	2.3	2.7	3.6*	3.6*	1.9	2.1	2.4*	2.4*	6.8 m		
	15 ft	■	-	-	-	-	-	-	8.2	*8.6	*8.6	*8.6	5.1	6.0	*7.9	*7.9	4.2	4.6	*5.3	*5.3	22.3 ft		
	3 m	•	-	-	-	-	6.3	7.2*	7.1*	7.2*	3.4	4.0	4.8*	4.9*	2.2	2.6	3.8	4.0*	1.6	1.9	2.4*	2.4*	7.3 m
	10 ft	■	-	-	-	-	13.9	*15.9	*15.7	*15.9	7.5	8.8	*10.6	*10.8	4.9	5.7	8.4	*8.8	3.5	4.2	*5.3	*5.3	24.0 ft
	1.5 m	•	-	-	-	-	-	-	3.2	3.7	5.6	5.8*	2.1	2.4	3.6	4.4*	1.5	1.8	2.5*	2.5*	7.4 m		
	5 ft	■	-	-	-	-	-	-	7.1	8.2	12.3	*12.8	4.6	5.3	7.9	*9.7	3.3	4.0	*5.5	*5.5	24.3 ft		
	0 m	•	-	-	-	-	5.3	5.4*	5.5*	5.4*	3.0	3.5	5.4	6.3*	2.0	2.3	3.5	4.6*	1.6	1.8	2.8	2.8*	7.1 m
	0 ft	■	-	-	-	-	11.7	*11.9	*12.1	*11.9	6.6	7.7	11.9	*13.9	4.4	5.1	7.7	*10.1	3.5	4.0	6.2	*6.2	23.3 ft
	-1.5 m	•	-	-	-	-	5.3	6.3	9.0*	8.9*	2.9	3.4	5.3	6.2*	2.0	2.3	3.5	4.5*	1.8	2.1	3.1	3.4*	6.6 m
	-5 ft	■	-	-	-	-	11.7	13.9	*19.8	*19.6	6.4	7.5	11.7	*13.7	4.4	5.1	7.7	*9.9	4.0	4.6	6.8	*7.5	21.7 ft

# Specifications

## EWR170E

### LIFTING CAPACITY EWR170E

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

	Lifting point	Reach from machine centre (u = support up/d = support down)																					
		3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				7.5 m, 25 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		u		d			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d						
5.1 m, 16'9" 2-piece boom 2.0 m, 6'7" dipper arm Front blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	5.1*	5.1*	5.1*	4.3 m			
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8	*11.2	*11.2	*11.2	14.1 ft			
	6 m	•	-	-	-	-	4.7	4.8*	4.8*	4.8*	-	-	-	-	-	3.0	4.3*	4.3*	4.3*	5.8 m			
	20 ft	■	-	-	-	-	10.4	*10.6	*10.6	*10.6	-	-	-	-	-	6.6	*9.5	*9.5	*9.5	19.0 ft			
	4.5 m	•	7.4*	7.4*	7.4*	7.4*	4.5	5.5*	5.5*	5.5*	2.9	4.8*	4.6	4.8*	-	-	2.4	4.0*	3.8	4.0*	6.7 m		
	15 ft	■	*16.3	*16.3	*16.3	*16.3	9.9	*12.1	*12.1	*12.1	6.4	*10.6	10.1	*10.6	-	-	5.3	*8.8	8.4	*8.8	22.0 ft		
	3 m	•	-	-	-	-	4.1	6.8*	6.8*	6.8*	2.8	4.7	4.4	5.3*	-	-	2.1	3.6	3.4	4.0*	7.1 m		
	10 ft	■	-	-	-	-	9.0	*15.0	*15.0	*15.0	6.2	10.4	9.7	*11.7	-	-	4.6	7.9	7.5	*8.8	23.3 ft		
	1.5 m	•	-	-	-	-	3.9	7.0	6.5	7.8*	2.6	4.6	4.3	5.7*	-	-	2.0	3.5	3.3	4.2*	7.2 m		
	5 ft	■	-	-	-	-	8.6	15.4	14.3	*17.2	5.7	10.1	9.5	*12.6	-	-	4.4	7.7	7.3	*9.3	23.6 ft		
	0 m	•	-	-	-	-	3.7	6.8	6.4	8.2*	2.6	4.5	4.2	6.0*	-	-	2.1	3.6	3.4	4.7*	7.0 m		
	0 ft	■	-	-	-	-	8.2	15.0	14.1	*18.1	5.7	9.9	9.3	*13.2	-	-	4.6	7.9	7.5	*10.4	23.0 ft		
	-1.5 m	•	6.8	10.0*	10.0*	10.0*	3.7	6.8	6.4	7.7*	2.6	4.5	4.2	5.6*	-	-	2.4	4.1	3.9	5.0*	6.4 m		
	-5 ft	■	15.0	*22.0	*22.0	*22.0	8.2	15.0	14.1	*17.0	5.7	9.9	9.3	*12.3	-	-	5.3	9.0	8.6	*11.0	21.0 ft		
5.1 m, 16'9" 2-piece boom 2.45 m, 8'0" dipper arm Front blade Rear outriggers	7.5 m	•	-	-	-	-	4.5*	4.5*	4.5*	4.5*	-	-	-	-	-	4.0	4.1*	4.1*	4.1*	5.0 m			
	25 ft	■	-	-	-	-	9.9	9.9	9.9	9.9	-	-	-	-	-	8.8	*9.0	*9.0	*9.0	16.4 ft			
	6 m	•	-	-	-	-	4.3*	4.3*	4.3*	4.3*	3.0	4.3*	4.3*	4.3*	-	-	2.7	3.5*	3.5*	3.5*	6.3 m		
	20 ft	■	-	-	-	-	9.5	9.5	9.5	9.5	6.6	*9.5	*9.5	*9.5	-	-	6.0	*7.7	*7.7	*7.7	20.7 ft		
	4.5 m	•	6.3*	6.3*	6.3*	6.3*	4.5	5.0*	5.0*	5.0*	2.9	4.5*	4.5*	4.5*	-	-	2.2	3.3*	3.3*	3.3*	7.1 m		
	15 ft	■	*13.9	*13.9	*13.9	*13.9	9.9	*11.0	*11.0	*11.0	6.4	*9.9	*9.9	*9.9	-	-	4.9	*7.3	*7.3	*7.3	23.3 ft		
	3 m	•	-	-	-	-	4.2	6.3*	6.3*	6.3*	2.8	4.7	4.5	5.0*	2.0	3.4	3.2	3.8*	1.9	3.3	3.1	3.3*	7.6 m
	10 ft	■	-	-	-	-	9.3	*13.9	*13.9	*13.9	6.2	10.4	9.9	*11.0	4.4	7.5	7.1	*8.4	4.2	7.3	6.8	*7.3	24.9 ft
	1.5 m	•	-	-	-	-	3.9	7.0	6.6	7.5*	2.6	4.6	4.3	5.6*	1.9	3.3	3.1	4.6*	1.9	3.2	3.0	3.5*	7.7 m
	5 ft	■	-	-	-	-	8.6	15.4	14.6	*16.5	5.7	10.1	9.5	*12.3	4.2	7.3	6.8	*10.1	4.2	7.1	6.6	*7.7	25.3 ft
	0 m	•	-	-	-	-	3.7	6.8	6.4	8.1*	2.5	4.5	4.2	5.9*	-	-	-	1.9	3.3	3.1	3.9*	7.4 m	
	0 ft	■	-	-	-	-	8.2	15.0	14.1	*17.9	5.5	9.9	9.3	*13.0	-	-	-	4.2	7.3	6.8	*8.6	24.3 ft	
	-1.5 m	•	6.7	9.2*	9.2*	9.2*	3.7	6.8	6.3	7.9*	2.5	4.4	4.2	5.8*	-	-	-	2.1	3.7	3.5	4.6*	6.9 m	
	-5 ft	■	14.8	*20.3	*20.3	*20.3	8.2	15.0	13.9	*17.4	5.5	9.7	9.3	*12.8	-	-	-	4.6	8.2	7.7	*10.1	22.6 ft	
5.1 m, 16'9" 2-piece boom 2.6 m, 8'6" dipper arm Front blade Rear outriggers	-3 m	•	-	-	-	-	3.8	6.8*	6.4	6.8*	-	-	-	-	-	-	2.9	5.1	4.8	5.3*	5.5 m		
	-10 ft	■	-	-	-	-	8.4	*15.0	14.1	*15.0	-	-	-	-	-	-	6.4	11.2	10.6	*11.7	18.0 ft		
	7.5 m	•	-	-	-	-	4.3*	4.3*	4.3*	4.3*	-	-	-	-	-	-	3.7	3.7*	3.7*	3.7*	5.2 m		
	25 ft	■	-	-	-	-	9.5	9.5	9.5	9.5	-	-	-	-	-	-	8.2	*8.2	*8.2	*8.2	17.1 ft		
	6 m	•	-	-	-	-	4.1*	4.1*	4.1*	4.1*	3.0	4.2*	4.2*	4.2*	-	-	-	2.6	3.3*	3.3*	3.3*	6.5 m	
	20 ft	■	-	-	-	-	9.0	9.0	9.0	9.0	6.6	*9.3	*9.3	*9.3	-	-	-	5.7	*7.3	*7.3	*7.3	21.3 ft	
	4.5 m	•	-	-	-	-	4.5	4.9*	4.9*	4.9*	2.9	4.4*	4.4*	4.4*	-	-	-	2.1	3.1*	3.1*	3.1*	7.3 m	
	15 ft	■	-	-	-	-	9.9	*10.8	*10.8	*10.8	6.4	*9.7	*9.7	*9.7	-	-	-	4.6	*6.8	*6.8	*6.8	24.0 ft	
	3 m	•	-	-	-	-	4.2	6.1*	6.1*	6.1*	2.8	4.7	4.5	4.9*	2.0	3.4	3.2	4.3*	1.9	3.1*	3.0	3.1*	7.7 m
	10 ft	■	-	-	-	-	9.3	*13.4	*13.4	*13.4	6.2	10.4	9.9	*10.8	4.4	7.5	7.1	*9.5	4.2	*6.8	6.6	*6.8	25.3 ft
	1.5 m	•	-	-	-	-	3.9	7.0	6.6	7.4*	2.6	4.6	4.3	5.5*	1.9	3.3	3.1	4.5*	1.8	3.1	2.9	3.3*	7.8 m
	5 ft	■	-	-	-	-	8.6	15.4	14.6	*16.3	5.7	10.1	9.5	*12.1	4.2	7.3	6.8	*9.9	4.0	6.8	6.4	*7.3	25.6 ft
	0 m	•	4.6*	4.6*	4.6*	4.6*	3.7	6.8	6.4	8.0*	2.5	4.4	4.2	5.8*	1.9	3.2	3.1	4.4*	1.8	3.2	3.0	3.6*	7.6 m
	0 ft	■	*10.1	*10.1	*10.1	*10.1	8.2	15.0	14.1	*17.6	5.5	9.7	9.3	*12.8	4.2	7.1	6.8	*9.7	4.0	7.1	6.6	*7.9	24.9 ft
	-1.5 m	•	6.6	9.0*	9.0*	9.0*	3.7	6.8	6.3	7.9*	2.5	4.4	4.1	5.8*	-	-	-	2.0	3.5	3.3	4.2*	7.0 m	
	-5 ft	■	14.6	*19.8	*19.8	*19.8	8.2	15.0	13.9	*17.4	5.5	9.7	9.0	*12.8	-	-	-	4.4	7.7	7.3	*9.3	23.0 ft	
	-3 m	•	-	-	-	-	3.7	6.8	6.4	7.0*	-	-	-	-	-	-	2.6	4.6	4.3	4.9*	5.9 m		
	-10 ft	■	-	-	-	-	8.2	15.0	14.1	*15.4	-	-	-	-	-	-	5.7	10.1	9.5	*10.8	19.4 ft		

### LIFTING CAPACITY EWR170E

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

Lifting point		Reach from machine centre (u = support up/d = support down)																					
		3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				7.5 m, 25 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC			
5.1 m, 16'9" 2-piece boom 3.1 m, 10'2" dipper arm Front blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0*	3.0*	3.0*	3.0*	5.9 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*6.6	*6.6	*6.6	*6.6	19.4 ft		
	6 m	•	-	-	-	-	-	-	-	3.0	3.7*	3.7*	3.7*	-	-	-	-	2.3	2.6*	2.6*	2.6*	7.1 m	
	20 ft	■	-	-	-	-	-	-	6.6	*8.2	*8.2	*8.2	-	-	-	-	5.1	*5.7	*5.7	*5.7	23.3 ft		
	4.5 m	•	-	-	-	-	4.3*	4.3*	4.3*	4.3*	3.0	4.0*	4.0*	4.0*	2.0	3.4	3.2	3.5*	1.9	2.5*	2.5*	2.5*	7.8 m
	15 ft	■	-	-	-	-	9.5	9.5	9.5	9.5	6.6	*8.8	*8.8	*8.8	4.4	7.5	7.1	*7.7	4.2	*5.5	*5.5	*5.5	25.6 ft
	3 m	•	-	-	-	-	4.3	5.6*	5.6*	5.6*	2.8	4.6*	4.6*	4.6*	2.0	3.4	3.2	4.1*	1.7	2.5*	2.5*	2.5*	8.2 m
	10 ft	■	-	-	-	-	9.5	*12.3	*12.3	*12.3	6.2	*10.1	9.9	*10.1	4.4	7.5	7.1	*9.0	3.7	*5.5	*5.5	*5.5	26.9 ft
	1.5 m	•	-	-	-	-	4.0	7.0*	6.7	7.0*	2.7	4.6	4.3	5.2*	1.9	3.3	3.1	4.4*	1.6	2.6*	2.6*	2.6*	8.3 m
	5 ft	■	-	-	-	-	8.8	*15.4	14.8	*15.4	6.0	10.1	9.5	*11.5	4.2	7.3	6.8	*9.7	3.5	*5.7	*5.7	*5.7	27.2 ft
	0 m	•	5.2*	5.2*	5.2*	5.2*	3.7	6.8	6.4	7.9*	2.5	4.5	4.2	5.7*	1.8	3.2	3.0	4.6*	1.7	2.9*	2.7	2.9*	8.1 m
	0 ft	■	*11.5	*11.5	*11.5	*11.5	8.2	15.0	14.1	*17.4	5.5	9.9	9.3	*12.6	4.0	7.1	6.6	*10.1	3.7	*6.4	6.0	*6.4	26.6 ft
	-1.5 m	•	6.6	8.2*	8.2*	8.2*	3.6	6.7	6.3	8.0*	2.5	4.4	4.1	5.8*	1.8	3.2	3.0	4.0*	1.8	3.2	3.0	3.3*	7.6 m
	-5 ft	■	14.6	*18.1	*18.1	*18.1	7.9	14.8	13.9	*17.6	5.5	9.7	9.0	*12.8	4.0	7.1	6.6	*8.8	4.0	7.1	6.6	*7.3	24.9 ft
	-3 m	•	6.7	10.8*	10.8*	10.8*	3.7	6.8	6.3	7.4*	2.5	4.4	4.1	5.3*	-	-	-	-	2.2	3.8	3.6	4.2*	6.7 m
	-10 ft	■	14.8	*23.8	*23.8	*23.8	8.2	15.0	13.9	*16.3	5.5	9.7	9.0	*11.7	-	-	-	-	4.9	8.4	7.9	*9.3	22.0 ft
5.1 m, 16'9" 2-piece boom 2.95 m, 9'8" grab arm Front blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	3.5*	3.5*	3.5*	5.8 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3	*7.7	*7.7	*7.7	19.0 ft		
	6 m	•	-	-	-	-	-	-	3.2	4.1*	4.1*	4.1*	-	-	-	-	2.5	3.1*	3.1*	3.1*	7.0 m		
	20 ft	■	-	-	-	-	-	-	7.1	*9.0	*9.0	*9.0	-	-	-	-	5.5	*6.8	*6.8	*6.8	23.0 ft		
	4.5 m	•	-	-	-	-	4.7*	4.7*	4.7*	4.7*	3.2	4.3*	4.3*	4.3*	2.2	3.6	3.4	3.8*	2.1	2.9*	2.9*	2.9*	7.7 m
	15 ft	■	-	-	-	-	*10.4	*10.4	*10.4	*10.4	7.1	*9.5	*9.5	*9.5	4.9	7.9	7.5	*8.4	4.6	*6.4	*6.4	*6.4	25.3 ft
	3 m	•	-	-	-	-	4.5	6.0*	6.0*	6.0*	3.0	4.9*	4.7	4.9*	2.2	3.6	3.4	4.4*	1.9	2.9*	2.9*	2.9*	8.1 m
	10 ft	■	-	-	-	-	9.9	*13.2	*13.2	*13.2	6.6	*10.8	10.4	*10.8	4.9	7.9	7.5	*9.7	4.2	*6.4	*6.4	*6.4	26.6 ft
	1.5 m	•	-	-	-	-	4.2	7.3	6.9	7.4*	2.9	4.8	4.5	5.6*	2.1	3.5	3.3	4.7*	1.9	3.0*	2.9	3.0*	8.2 m
	5 ft	■	-	-	-	-	9.3	16.1	15.2	*16.3	6.4	10.6	9.9	*12.3	4.6	7.7	7.3	*10.4	4.2	*6.6	6.4	*6.6	26.9 ft
	0 m	•	-	-	-	-	3.9	7.1	6.6	8.2*	2.7	4.7	4.4	6.0*	2.1	3.4	3.3	4.8*	1.9	3.2	3.0	3.2*	8.0 m
	0 ft	■	-	-	-	-	8.6	15.7	14.6	*18.1	6.0	10.4	9.7	*13.2	4.6	7.5	7.3	*10.6	4.2	7.1	6.6	*7.1	26.2 ft
	-1.5 m	•	6.8	8.1*	8.1*	8.1*	3.9	7.0	6.5	8.3*	2.7	4.6	4.3	6.1*	-	-	-	-	2.1	3.5	3.3	3.7*	7.5 m
	-5 ft	■	15.0	*17.9	*17.9	*17.9	8.6	15.4	14.3	*18.3	6.0	10.1	9.5	*13.4	-	-	-	-	4.6	7.7	7.3	*8.2	24.6 ft
	-3 m	•	6.9	10.9*	10.9*	10.9*	3.9	7.0	6.6	7.5*	2.7	4.6	4.4	5.4*	-	-	-	-	2.5	4.2	3.9	4.6*	6.5 m
	-10 ft	■	15.2	*24.0	*24.0	*24.0	8.6	15.4	14.6	*16.5	6.0	10.1	9.7	*11.9	-	-	-	-	5.5	9.3	8.6	*10.1	21.3 ft
5.1 m, 16'9" 2-piece boom 2.0 m, 6'7" dipper arm Rear blade	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	5.1*	5.1*	5.1*	4.3 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.4	*11.2	*11.2	*11.2	14.1 ft		
	6 m	•	-	-	-	-	4.4	4.8*	4.8*	4.8*	-	-	-	-	-	-	2.9	3.3	4.3*	4.3*	5.8 m		
	20 ft	■	-	-	-	-	9.7	*10.6	*10.6	*10.6	-	-	-	-	-	-	6.4	7.3	*9.5	*9.5	19.0 ft		
	4.5 m	•	7.4*	7.4*	7.4*	7.4*	4.2	4.8	5.5*	5.5*	2.7	3.1	4.5	4.8*	-	-	-	2.3	2.6	3.7	4.0*	6.7 m	
	15 ft	■	*16.3	*16.3	*16.3	*16.3	9.3	10.6	*12.1	12.1	6.0	6.8	9.9	*10.6	-	-	-	5.1	5.7	8.2	*8.8	22.0 ft	
	3 m	•	-	-	-	-	3.9	4.5	6.7	6.8*	2.6	3.0	4.3	5.3*	-	-	-	2.0	2.3	3.3	4.0*	7.1 m	
	10 ft	■	-	-	-	-	8.6	9.9	14.8	*15.0	5.7	6.6	9.5	*11.7	-	-	-	4.4	5.1	7.3	*8.8	23.3 ft	
	1.5 m	•	-	-	-	-	3.6	4.2	6.4	7.8*	2.5	2.8	4.2	5.7*	-	-	-	1.9	2.2	3.2	4.2*	7.2 m	
	5 ft	■	-	-	-	-	7.9	9.3	14.1	*17.2	5.5	6.2	9.3	*12.6	-	-	-	4.2	4.9	7.1	*9.3	23.6 ft	
	0 m	•	-	-	-	-	3.5	4.1	6.3	8.2*	2.4	2.8	4.1	6.0*	-	-	-	2.0	2.3	3.3	4.7*	7.0 m	
	0 ft	■	-	-	-	-	7.7	9.0	13.9	*18.1	5.3	6.2	9.0	*13.2	-	-	-	4.4	5.1	7.3	*10.4	23.0 ft	
	-1.5 m	•	6.4	7.6	10.0*	10.0*	3.5	4.1	6.3	7.7*	2.4	2.8	4.1	5.6*	-	-	-	2.2	2.5	3.8	5.0*	6.4 m	
	-5 ft	■	14.1	16.8	*22.0	*22.0	7.7	9.0	13.9	*17.0	5.3	6.2	9.0	*12.3	-	-	-	4.9	5.5	8.4	*11.0	21.0 ft	

# Specifications

## EWR170E

### LIFTING CAPACITY EWR170E

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

Lifting point		Reach from machine centre (u = support up/d = support down)																					
		3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				7.5 m, 25 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d				
5.1 m, 16'9" 2-piece boom 2.45 m, 8'0" dipper arm Rear blade	7.5 m	•	-	-	-	4.5	4.5*	4.5*	4.5*	-	-	-	-	-	-	-	3.8	4.1*	4.1*	4.1*	5.0 m		
	25 ft	■	-	-	-	9.9	9.9	9.9	9.9	-	-	-	-	-	-	-	8.4	*9.0	*9.0	*9.0	16.4 ft		
	6 m	•	-	-	-	4.3*	4.3*	4.3*	4.3*	2.8	3.2	4.3*	4.3*	-	-	-	2.5	2.9	3.5*	3.5*	6.3 m		
	20 ft	■	-	-	-	*9.5	*9.5	*9.5	*9.5	6.2	7.1	*9.5	*9.5	-	-	-	5.5	6.4	*7.7	*7.7	20.7 ft		
	4.5 m	•	6.3*	6.3*	6.3*	6.3*	4.3	4.9	5.0*	5.0*	2.7	3.1	4.5*	4.5*	-	-	-	2.0	2.3	3.3*	3.3*	7.1 m	
	15 ft	■	*13.9	*13.9	*13.9	*13.9	9.5	10.8	*11.0	*11.0	6.0	6.8	*9.9	*9.9	-	-	-	4.4	5.1	*7.3	*7.3	23.3 ft	
	3 m	•	-	-	-	4.0	4.5	6.3*	6.3*	2.6	3.0	4.4	5.0*	1.8	2.1	3.1	3.8*	1.8	2.1	3.0	3.3*	7.6 m	
	10 ft	■	-	-	-	8.8	9.9	*13.9	*13.9	5.7	6.6	9.7	*11.0	4.0	4.6	6.8	*8.4	4.0	4.6	6.6	*7.3	24.9 ft	
	1.5 m	•	-	-	-	3.6	4.2	6.4	7.5*	2.5	2.8	4.2	5.6*	1.8	2.1	3.0	4.6*	1.7	2.0	2.9	3.5*	7.7 m	
	5 ft	■	-	-	-	7.9	9.3	14.1	*16.5	5.5	6.2	9.3	*12.3	4.0	4.6	6.6	*10.1	3.7	4.4	6.4	*7.7	25.3 ft	
	0 m	•	-	-	-	3.5	4.0	6.2	8.1*	2.4	2.7	4.1	5.9*	-	-	-	1.8	2.0	3.0	3.9*	7.4 m		
	0 ft	■	-	-	-	7.7	8.8	13.7	*17.9	5.3	6.0	9.0	*13.0	-	-	-	4.0	4.4	6.6	*8.6	24.3 ft		
	-1.5 m	•	6.3	7.4	9.2*	9.2*	3.4	4.0	6.2	7.9*	2.3	2.7	4.1	5.8*	-	-	-	2.0	2.3	3.4	4.6*	6.9 m	
	-5 ft	■	13.9	16.3	*20.3	*20.3	7.5	8.8	13.7	*17.4	5.1	6.0	9.0	*12.8	-	-	-	4.4	5.1	7.5	*10.1	22.6 ft	
	-3 m	•	-	-	-	3.5	4.1	6.3	6.8*	-	-	-	-	-	-	-	2.7	3.1	4.6	5.3*	5.5 m		
	-10 ft	■	-	-	-	7.7	9.0	13.9	*15.0	-	-	-	-	-	-	-	6.0	6.8	10.1	*11.7	18.0 ft		
5.1 m, 16'9" 2-piece boom 2.6 m, 8'6" dipper arm Rear blade	7.5 m	•	-	-	-	4.3*	4.3*	4.3*	4.3*	-	-	-	-	-	-	-	3.5	3.7*	3.7*	3.7*	5.2 m		
	25 ft	■	-	-	-	*9.5	*9.5	*9.5	*9.5	-	-	-	-	-	-	-	7.7	*8.2	*8.2	*8.2	17.1 ft		
	6 m	•	-	-	-	4.1*	4.1*	4.1*	4.1*	2.8	3.2	4.2*	4.2*	-	-	-	2.4	2.7	3.3*	3.3*	6.5 m		
	20 ft	■	-	-	-	*9.0	*9.0	*9.0	*9.0	6.2	7.1	*9.3	*9.3	-	-	-	5.3	6.0	*7.3	*7.3	21.3 ft		
	4.5 m	•	-	-	-	4.3	4.9*	4.9*	4.9*	2.7	3.1	4.4*	4.4*	-	-	-	2.0	2.2	3.1*	3.1*	7.3 m		
	15 ft	■	-	-	-	9.5	*10.8	*10.8	*10.8	6.0	6.8	*9.7	*9.7	-	-	-	4.4	4.9	*6.8	*6.8	24.0 ft		
	3 m	•	-	-	-	4.0	4.6	6.1*	6.1*	2.6	3.0	4.4	4.9*	1.8	2.1	3.1	4.3*	1.7	2.0	3.0	3.1*	7.7 m	
	10 ft	■	-	-	-	8.8	10.1	*13.4	*13.4	5.7	6.6	9.7	*10.8	4.0	4.6	6.8	*9.5	3.7	4.4	6.6	*6.8	25.3 ft	
	1.5 m	•	-	-	-	3.7	4.2	6.4	7.4*	2.5	2.8	4.2	5.5*	1.8	2.0	3.0	4.5*	1.7	1.9	2.9	3.3*	7.8 m	
	5 ft	■	-	-	-	8.2	9.3	14.1	*16.3	5.5	6.2	9.3	*12.1	4.0	4.4	6.6	*9.9	3.7	4.2	6.4	*7.3	25.6 ft	
	0 m	•	4.6*	4.6*	4.6*	4.6*	3.5	4.0	6.2	8.0*	2.4	2.7	4.1	5.8*	1.7	2.0	3.0	4.4*	1.7	2.0	2.9	3.6*	7.6 m
	0 ft	■	*10.1	*10.1	*10.1	*10.1	7.7	8.8	13.7	*17.6	5.3	6.0	9.0	*12.8	3.7	4.4	6.6	*9.7	3.7	4.4	6.4	*7.9	24.9 ft
	-1.5 m	•	6.2	7.4	9.0*	9.0*	3.4	4.0	6.2	7.9*	2.3	2.7	4.0	5.8*	-	-	-	1.9	2.2	3.3	4.2*	7.0 m	
	-5 ft	■	13.7	16.3	*19.8	*19.8	7.5	8.8	13.7	*17.4	5.1	6.0	8.8	*12.8	-	-	-	4.2	4.9	7.3	*9.3	23.0 ft	
	-3 m	•	-	-	-	3.5	4.0	6.2	7.0*	-	-	-	-	-	-	-	2.4	2.8	4.2	4.9*	5.9 m		
	-10 ft	■	-	-	-	7.7	8.8	13.7	*15.4	-	-	-	-	-	-	-	5.3	6.2	9.3	*10.8	19.4 ft		

### LIFTING CAPACITY EWR170E

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

Lifting point		Reach from machine centre (u = support up/d = support down)																					
		3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				7.5 m, 25 ft				Max.					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC			
5.1 m, 16'9" 2-piece boom 3.1 m, 10'2" dipper arm Rear blade	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.0*	3.0*	3.0*	5.9 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	*6.6	*6.6	*6.6	19.4 ft		
	6 m	•	-	-	-	-	-	-	-	2.9	3.3	3.7*	3.7*	-	-	-	-	2.1	2.4	2.6*	2.6*	7.1 m	
	20 ft	■	-	-	-	-	-	-	-	6.4	7.3	*8.2	*8.2	-	-	-	-	4.6	5.3	*5.7	*5.7	23.3 ft	
	4.5 m	•	-	-	-	-	4.3*	4.3*	4.3*	4.3*	2.8	3.2	4.0*	4.0*	1.9	2.2	3.2	3.5*	1.8	2.0	2.5*	2.5*	7.8 m
	15 ft	■	-	-	-	-	*9.5	*9.5	*9.5	*9.5	6.2	7.1	*8.8	*8.8	4.2	4.9	7.1	*7.7	4.0	4.4	*5.5	*5.5	25.6 ft
	3 m	•	-	-	-	-	4.1	4.7	5.6*	5.6*	2.6	3.0	4.4	4.6*	1.9	2.1	3.1	4.1*	1.6	1.8	2.5*	2.5*	8.2 m
	10 ft	■	-	-	-	-	9.0	10.4	*12.3	*12.3	5.7	6.6	9.7	*10.1	4.2	4.6	6.8	*9.0	3.5	4.0	*5.5	*5.5	26.9 ft
	1.5 m	•	-	-	-	-	3.7	4.3	6.5	7.0*	2.5	2.9	4.2	5.2*	1.8	2.0	3.0	4.4*	1.5	1.8	2.6	2.6*	8.3 m
	5 ft	■	-	-	-	-	8.2	9.5	14.3	*15.4	5.5	6.4	9.3	*11.5	4.0	4.4	6.6	*9.7	3.3	4.0	5.7	*5.7	27.2 ft
	0 m	•	5.2*	5.2*	5.2*	5.2*	3.5	4.1	6.2	7.9*	2.4	2.7	4.1	5.7*	1.7	2.0	3.0	4.6*	1.5	1.8	2.7	2.9*	8.1 m
	0 ft	■	*11.5	*11.5	*11.5	*11.5	7.7	9.0	13.7	*17.4	5.3	6.0	9.0	*12.6	3.7	4.4	6.6	*10.1	3.3	4.0	6.0	*6.4	26.6 ft
	-1.5 m	•	6.1	7.3	8.2*	8.2*	3.4	4.0	6.1	8.0*	2.3	2.7	4.0	5.8*	1.7	2.0	2.9	4.0*	1.7	1.9	2.9	3.3*	7.6 m
	-5 ft	■	13.4	16.1	*18.1	*18.1	7.5	8.8	13.4	*17.6	5.1	6.0	8.8	*12.8	3.7	4.4	6.4	*8.8	3.7	4.2	6.4	*7.3	24.9 ft
	-3 m	•	6.3	7.4	10.8*	10.8*	3.4	4.0	6.2	7.4*	2.3	2.7	4.0	5.3*	-	-	-	-	2.0	2.3	3.5	4.2*	6.7 m
	-10 ft	■	13.9	16.3	*23.8	*23.8	7.5	8.8	13.7	*16.3	5.1	6.0	8.8	*11.7	-	-	-	-	4.4	5.1	7.7	*9.3	22.0 ft
5.1 m, 16'9" 2-piece boom 2.95 m, 9'8" grab arm Rear blade	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	3.5*	3.5*	3.5*	5.8 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	*7.7	*7.7	*7.7	19.0 ft		
	6 m	•	-	-	-	-	-	-	-	3.1	3.4	4.1*	4.1*	-	-	-	-	2.4	2.7	3.1*	3.1*	7.0 m	
	20 ft	■	-	-	-	-	-	-	-	6.8	7.5	*9.0	*9.0	-	-	-	-	5.3	6.0	*6.8	*6.8	23.0 ft	
	4.5 m	•	-	-	-	-	4.6	4.7*	4.7*	4.7*	3.0	3.4	4.3*	4.3*	2.1	2.4	3.4	3.8*	2.0	2.3	2.9*	2.9*	7.7 m
	15 ft	■	-	-	-	-	10.1	*10.4	*10.4	*10.4	6.6	7.5	*9.5	*9.5	4.6	5.3	7.5	*8.4	4.4	5.1	*6.4	*6.4	25.3 ft
	3 m	•	-	-	-	-	4.3	4.9	6.0*	6.0*	2.8	3.2	4.6	4.9*	2.1	2.3	3.3	4.4*	1.8	2.1	2.9*	2.9*	8.1 m
	10 ft	■	-	-	-	-	9.5	10.8	*13.2	*13.2	6.2	7.1	10.1	*10.8	4.6	5.1	7.3	*9.7	4.0	4.6	*6.4	*6.4	26.6 ft
	1.5 m	•	-	-	-	-	3.9	4.5	6.7	7.4*	2.7	3.1	4.4	5.6*	2.0	2.3	3.2	4.7*	1.7	2.0	2.9	3.0*	8.2 m
	5 ft	■	-	-	-	-	8.6	9.9	14.8	*16.3	6.0	6.8	9.7	*12.3	4.4	5.1	7.1	*10.4	3.7	4.4	6.4	*6.6	26.9 ft
	0 m	•	-	-	-	-	3.7	4.3	6.5	8.2*	2.6	2.9	4.3	6.0*	1.9	2.2	3.2	4.8*	1.8	2.0	2.9	3.2*	8.0 m
	0 ft	■	-	-	-	-	8.2	9.5	14.3	*18.1	5.7	6.4	9.5	*13.2	4.2	4.9	7.1	*10.6	4.0	4.4	6.4	*7.1	26.2 ft
	-1.5 m	•	6.4	7.6	8.1*	8.1*	3.6	4.2	6.4	8.3*	2.5	2.9	4.2	6.1*	-	-	-	-	1.9	2.2	3.2	3.7*	7.5 m
	-5 ft	■	14.1	16.8	*17.9	*17.9	7.9	9.3	14.1	*18.3	5.5	6.4	9.3	*13.4	-	-	-	-	4.2	4.9	7.1	*8.2	24.6 ft
	-3 m	•	6.5	7.7	10.9*	10.9*	3.7	4.2	6.4	7.5*	2.5	2.9	4.3	5.4*	-	-	-	-	2.3	2.6	3.8	4.6*	6.5 m
	-10 ft	■	14.3	17.0	*24.0	*24.0	8.2	9.3	14.1	*16.5	5.5	6.4	9.5	*11.9	-	-	-	-	5.1	5.7	8.4	*10.1	21.3 ft
5.2 m, 17'1" 2-piece offset boom 2.0 m, 6'7" dipper arm Front blade Rear outriggers	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1*	4.1*	4.1*	4.1*	4.4 m		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*9.0	*9.0	*9.0	*9.0	14.4 ft		
	6 m	•	-	-	-	-	4.6*	4.6*	4.6*	4.6*	-	-	-	-	-	-	3.0	3.5*	3.5*	3.5*	5.9 m		
	20 ft	■	-	-	-	-	*10.1	*10.1	*10.1	*10.1	-	-	-	-	-	-	6.6	*7.7	*7.7	*7.7	19.4 ft		
	4.5 m	•	7.3*	7.3*	7.3*	7.3*	4.4	5.4*	5.4*	5.4*	2.9	4.6*	4.6	4.6*	-	-	-	2.3	3.3*	3.3*	3.3*	6.8 m	
	15 ft	■	*16.1	*16.1	*16.1	*16.1	9.7	*11.9	*11.9	*11.9	6.4	*10.1	10.1	*10.1	-	-	-	5.1	*7.3	*7.3	*7.3	22.3 ft	
	3 m	•	-	-	-	-	4.1	6.6*	6.6*	6.6*	2.7	4.7	4.4	5.1*	-	-	-	2.0	3.3*	3.3	3.3*	7.2 m	
	10 ft	■	-	-	-	-	9.0	*14.6	*14.6	*14.6	6.0	10.4	9.7	*11.2	-	-	-	4.4	*7.3	7.3	*7.3	23.6 ft	
	1.5 m	•	-	-	-	-	3.7	6.9	6.4	7.6*	2.6	4.5	4.2	5.6*	-	-	-	1.9	3.4	3.2	3.6*	7.3 m	
	5 ft	■	-	-	-	-	8.2	15.2	14.1	*16.8	5.7	9.9	9.3	*12.3	-	-	-	4.2	7.5	7.1	*7.9	24.0 ft	
	0 m	•	-	-	-	-	3.6	6.7	6.3	7.9*	2.5	4.4	4.1	5.8*	-	-	-	2.0	3.5	3.3	4.0*	7.1 m	
	0 ft	■	-	-	-	-	7.9	14.8	13.9	*17.4	5.5	9.7	9.0	*12.8	-	-	-	4.4	7.7	7.3	*8.8	23.3 ft	
	-1.5 m	•	6.5	7.3*	7.3*	7.3*	3.6	6.7	6.3	7.6*	2.5	4.4	4.1	5.6*	-	-	-	2.2	4.0	3.7	4.9*	6.5 m	
	-5 ft	■	14.3	*16.1	*16.1	*16.1	7.9	14.8	13.9	*16.8	5.5	9.7	9.0	*12.3	-	-	-	4.9	8.8	8.2	*10.8	21.3 ft	

# Specifications

## EWR170E

### LIFTING CAPACITY EWR170E

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. **Unit: • 1,000 kg / ■ 1,000 lb**

Notes: 1. Working pressure with Power Boost = 37.5 MPa / 5,440 psi. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (\*) are limited by machine's hydraulic lifting capacity rather than tipping load

	Lifting point	Reach from machine centre (u = support up/d = support down)																				
		3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				7.5 m, 25 ft				Max.				
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.				
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d			
5.2 m, 17'1" 2-piece offset boom 2.45 m, 8'0" dipper arm Front blade Rear outriggers	7.5 m	•	-	-	-	4.2*	4.2*	4.2*	4.2*	-	-	-	-	-	-	3.1*	3.1*	3.1*	3.1*	5.1 m		
	25 ft	■	-	-	-	9.3	9.3	9.3	9.3	-	-	-	-	-	-	*6.8	*6.8	*6.8	*6.8	16.7 ft		
	6 m	•	-	-	-	4.2*	4.2*	4.2*	4.2*	3.0	3.9*	3.9*	3.9*	-	-	2.6	2.7*	2.7*	2.7*	6.4 m		
	20 ft	■	-	-	-	9.3	9.3	9.3	9.3	6.6	*8.6	*8.6	*8.6	-	-	5.7	*6.0	*6.0	*6.0	21.0 ft		
	4.5 m	•	5.9*	5.9*	5.9*	5.9*	4.5	4.9*	4.9*	4.9*	2.9	4.3*	4.3*	4.3*	-	-	2.1	2.6*	2.6*	2.6*	7.2 m	
	15 ft	■	*13.0	*13.0	*13.0	*13.0	9.9	*10.8	*10.8	*10.8	6.4	*9.5	*9.5	*9.5	-	-	4.6	*5.7	*5.7	*5.7	23.6 ft	
	3 m	•	-	-	-	4.2	6.2*	6.2*	6.2*	2.7	4.7	4.5	4.8*	1.9	3.3	3.1	3.4*	1.9	2.6*	2.6*	2.6*	7.6 m
	10 ft	■	-	-	-	9.3	*13.7	*13.7	*13.7	6.0	10.4	9.9	*10.6	4.2	7.3	6.8	*7.5	4.2	*5.7	*5.7	*5.7	24.9 ft
	1.5 m	•	-	-	-	3.8	6.9	6.5	7.3*	2.6	4.5	4.3	5.4*	1.9	3.3	3.1	4.2*	1.8	2.8*	2.8*	2.8*	7.7 m
	5 ft	■	-	-	-	8.4	15.2	14.3	*16.1	5.7	9.9	9.5	*11.9	4.2	7.3	6.8	*9.3	4.0	*6.2	*6.2	*6.2	25.3 ft
	0 m	•	-	-	-	3.6	6.7	6.3	7.9*	2.5	4.4	4.1	5.7*	1.8	3.2	3.0	3.3*	1.8	3.1*	3.0	3.1*	7.5 m
	0 ft	■	-	-	-	7.9	14.8	13.9	*17.4	5.5	9.7	9.0	*12.6	4.0	7.1	6.6	*7.3	4.0	*6.8	6.6	*6.8	24.6 ft
	-1.5 m	•	6.4	6.7*	6.7*	6.7*	3.5	6.7	6.2	7.7*	2.4	4.4	4.1	5.7*	-	-	-	2.0	3.6	3.3	3.8*	7.0 m
	-5 ft	■	14.1	*14.8	*14.8	*14.8	7.7	14.8	13.7	*17.0	5.3	9.7	9.0	*12.6	-	-	-	4.4	7.9	7.3	*8.4	23.0 ft
	-3 m	•	-	-	-	3.6	6.7	6.3	6.8*	-	-	-	-	-	-	-	2.5	4.5	4.2	4.8*	5.9 m	
	-10 ft	■	-	-	-	7.9	14.8	13.9	*15.0	-	-	-	-	-	-	-	5.5	9.9	9.3	*10.6	19.4 ft	
	7.5 m	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1*	4.1*	4.1*	4.1*	4.4 m	
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*9.0	*9.0	*9.0	*9.0	14.4 ft	
	6 m	•	-	-	-	4.4	4.6*	4.6*	4.6*	-	-	-	-	-	-	-	2.8	3.2	3.5*	3.5*	5.9 m	
	20 ft	■	-	-	-	9.7	*10.1	*10.1	*10.1	-	-	-	-	-	-	-	6.2	7.1	*7.7	*7.7	19.4 ft	
5.2 m, 17'1" 2-piece offset boom 2.0 m, 6'7" dipper arm Rear blade	4.5 m	•	7.3*	7.3*	7.3*	7.3*	4.2	4.8	5.4*	5.4*	2.7	3.1	4.5	4.6*	-	-	2.2	2.5	3.3*	3.3*	6.8 m	
	15 ft	■	*16.1	*16.1	*16.1	*16.1	9.3	10.6	*11.9	*11.9	6.0	6.8	9.9	*10.1	-	-	-	4.9	5.5	*7.3	*7.3	22.3 ft
	3 m	•	-	-	-	3.8	4.4	6.6*	6.6*	2.5	2.9	4.3	5.1*	-	-	-	1.9	2.2	3.2	3.3*	7.2 m	
	10 ft	■	-	-	-	8.4	9.7	*14.6	*14.6	5.5	6.4	9.5	*11.2	-	-	-	4.2	4.9	7.1	*7.3	23.6 ft	
	1.5 m	•	-	-	-	3.5	4.1	6.3	7.6*	2.4	2.8	4.1	5.6*	-	-	-	1.8	2.1	3.1	3.6*	7.3 m	
	5 ft	■	-	-	-	7.7	9.0	13.9	*16.8	5.3	6.2	9.0	*12.3	-	-	-	4.0	4.6	6.8	*7.9	24.0 ft	
	0 m	•	-	-	-	3.3	3.9	6.1	7.9*	2.3	2.7	4.0	5.8*	-	-	-	1.8	2.1	3.2	4.0*	7.1 m	
	0 ft	■	-	-	-	7.3	8.6	13.4	*17.4	5.1	6.0	8.8	*12.8	-	-	-	4.0	4.6	7.1	*8.8	23.3 ft	
	-1.5 m	•	6.1	7.3	7.3*	7.3*	3.3	3.9	6.1	7.6*	2.3	2.7	4.0	5.6*	-	-	-	2.1	2.4	3.6	4.9*	6.5 m
	-5 ft	■	13.4	16.1	*16.1	*16.1	7.3	8.6	13.4	*16.8	5.1	6.0	8.8	*12.3	-	-	-	4.6	5.3	7.9	*10.8	21.3 ft
	7.5 m	•	-	-	-	4.2*	4.2*	4.2*	4.2*	-	-	-	-	-	-	-	3.1*	3.1*	3.1*	3.1*	5.1 m	
	25 ft	■	-	-	-	9.3	9.3	9.3	9.3	-	-	-	-	-	-	-	*6.8	*6.8	*6.8	*6.8	16.7 ft	
	6 m	•	-	-	-	4.2*	4.2*	4.2*	4.2*	2.8	3.2	3.9*	3.9*	-	-	-	2.4	2.7*	2.7*	2.7*	6.4 m	
	20 ft	■	-	-	-	9.3	9.3	9.3	9.3	6.2	7.1	*8.6	*8.6	-	-	-	5.3	*6.0	*6.0	*6.0	21.0 ft	
	4.5 m	•	5.9*	5.9*	5.9*	5.9*	4.3	4.9	4.9*	4.9*	2.7	3.1	4.3*	4.3*	-	-	-	2.0	2.3	2.6*	2.6*	7.2 m
	15 ft	■	*13.0	*13.0	*13.0	*13.0	9.5	10.8	*10.8	*10.8	6.0	6.8	*9.5	*9.5	-	-	-	4.4	5.1	*5.7	*5.7	23.6 ft
	3 m	•	-	-	-	3.9	4.5	6.2*	6.2*	2.6	3.0	4.3	4.8*	1.8	2.1	3.1	3.4*	1.7	2.0	2.6*	2.6*	7.6 m
	10 ft	■	-	-	-	8.6	9.9	*13.7	*13.7	5.7	6.6	9.5	*10.6	4.0	4.6	6.8	*7.5	3.7	4.4	*5.7	*5.7	24.9 ft
	1.5 m	•	-	-	-	3.5	4.1	6.3	7.3*	2.4	2.8	4.2	5.4*	1.7	2.0	3.0	4.2*	1.6	1.9	2.8*	2.8*	7.7 m
	5 ft	■	-	-	-	7.7	9.0	13.9	*16.1	5.3	6.2	9.3	*11.9	3.7	4.4	6.6	*9.3	3.5	4.2	*6.2	*6.2	25.3 ft
	0 m	•	-	-	-	3.3	3.9	6.1	7.9*	2.3	2.7	4.0	5.7*	1.7	2.0	2.9	3.3*	1.7	1.9	2.9	3.1*	7.5 m
	0 ft	■	-	-	-	7.3	8.6	13.4	*17.4	5.1	6.0	8.8	*12.6	3.7	4.4	6.4	*7.3	3.7	4.2	6.4	*6.8	24.6 ft
	-1.5 m	•	6.0	6.7*	6.7*	6.7*	3.3	3.9	6.1	7.7*	2.2	2.6	4.0	5.7*	-	-	-	1.9	2.2	3.3	3.8*	7.0 m
	-5 ft	■	13.2	*14.8	*14.8	*14.8	7.3	8.6	13.4	*17.0	4.9	5.7	8.8	*12.6	-	-	-	4.2	4.9	7.3	*8.4	23.0 ft
	-3 m	•	-	-	-	3.4	3.9	6.1	6.8*	-	-	-	-	-	-	-	2.4	2.7	4.1	4.8*	5.9 m	
	-10 ft	■	-	-	-	7.5	8.6	13.4	*15.0	-	-	-	-	-	-	-	5.3	6.0	9.0	*10.6	19.4 ft	

# Equipment

STANDARD EQUIPMENT		STANDARD EQUIPMENT			
	EWR150E	EWR170E	EWR150E		
<b>Engine</b>					
Turbocharged, 4 stroke Volvo diesel engine with water cooling, direct injection and charged air cooler that meets Tier 4 Final emission requirements	•	•	Volvo Care Cab with fixed roof hatch /ROPS	•	•
Intake air pre-heater	•	•	Cup holder	•	•
ECO- Modus	•	•	Door locks	•	•
Fuel filter and water separator	•	•	Safety glass, light tinted	•	•
Fuel filler pump: 50 l/min (13.2 gal/min) with automatic shut-off	•	•	Floor mat	•	•
Aluminium core radiator	•	•	Horn	•	•
<b>Electric / Electronic control system</b>					
Contronics-computerized monitoring and diagnostic system	•	•	Large storage area	•	•
Adjustable automatic idling system	•	•	Pull-up type front window	•	•
One-touch power boost	•	•	Removable lower windshield	•	•
Adjustable monitor	•	•	Retractable seat belt	•	•
Safety stop/start function and master electrical disconnect switch	•	•	Windshield wiper with washer and intermittent feature	•	•
2 Frame mounted halogen lamps	•	•	Heater & air-conditioner, automatic	•	•
Alternator,120 A	•	•	Hydraulic dampening cab mounts	•	•
Batteries, 2 x 12 V/140 Ah	•	•	Adjustable operator seat and joystick control console	•	•
Start motor, 24 V/5.5 kW	•	•	Adjustable steering column	•	•
CareTrack via GSM or satelite	•	•	Hydraulic safety lock lever	•	•
Rear view camera	•	•	Control joysticks, Proportional or L8 proportional	•	•
Side view camera left hand side	•	•	Bluetooth radio with USB port	•	•
<b>Superstructure</b>					
LED Rear lights	•	•	Sun shield,front, roof & rear	•	•
Service walkway with anti-slip grating	•	•	Master ignition key	•	•
Centralised lubricating point for slew bearing and boom	•	•	Multi function switch on LH Joystick	•	•
<b>Undercarriage</b>					
3 speeds: creep / offroad / road speed up to 35 km/h (21.75 mi/h)	•	•	Attachment points for extra hydraulics	•	•
Oscillating front axle $\pm 9^\circ$ with out mudguards/ $6^\circ$ with mudguards	•	•	Centralised lubrication point for arm and bucket	•	•
2-circuit travel brakes	•	•			
Maintenance-free propeller shafts	•	•			
<b>Hydraulic system</b>					
Load sensing hydraulic system	•	•			
Pressure relief system (servo accumulator)	•	•			
Proportional controlled visco-clutch cooling fan	•	•			
Hose rupture valve for boom and arm	•	•			
Hydraulic long life oil ISO VG 46	•	•			

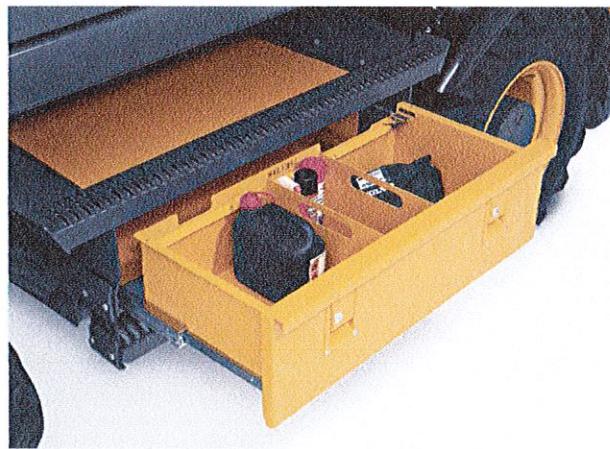
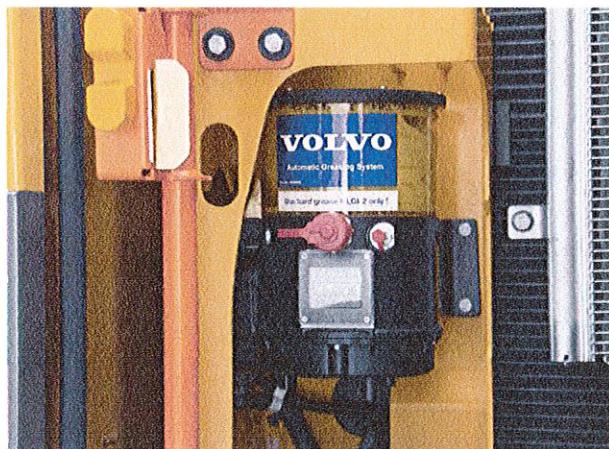
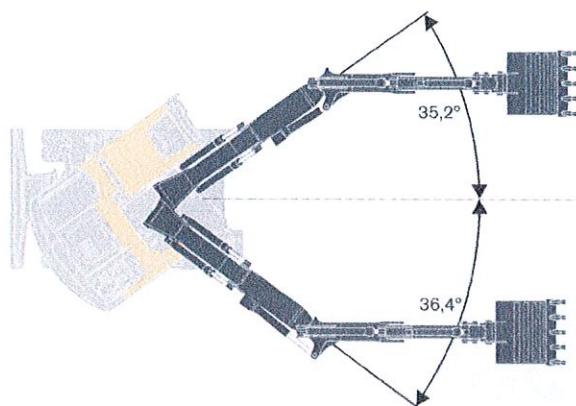
# Equipment

OPTIONAL EQUIPMENT			OPTIONAL EQUIPMENT		
	EWR150E	EWR170E		EWR150E	EWR170E
<b>Engine</b>					
Diesel coolant heater with digital timer	•	•	Volvo Care Cab with openable PC roof hatch / ROPS	•	•
Block heater, 240 V	•	•	Proportional control joystick	•	•
Water separator with heater	•	•	L8 joystick	•	•
Dust net	•	•	Hydraulic proportional pedal for attachment control	•	•
Reversible fan	•	•	Falling object guard (FOG)	•	•
Air inlet turbo precleaning system	•	•	Cab mounted falling object protective structures (FOPS)	•	•
Micro- mesh and sealing for engine compartment	•	•	Rain shield, front	•	•
Tropical cooling	•	•	Second generation Steelwrist tiltrotator preparation	•	•
Waste package	•	•	Sunlight protection, roof hatch (steel)	•	•
<b>Electric / Electronic control system</b>					
Remote controlled welcome light	•	•	Anti-vandalism kit	•	•
Joystick steering (Comfort Drive Control)	•	•	Lower wiper	•	•
Multi-channel electric centre passage	•	•	Safety net for front window	•	•
Joystick Controlled Support (blade / outrigger function on LH joystick)	•	•	Volvo Smart View = a 360° camera system with 3 cameras	•	•
Travel alarm	•	•	Ashtray	•	•
Extra work lights: ( LED or halogen)	•	•	Lighter	•	•
- Back of cab 1 and counterweight 1	•	•	Mechanical Fabric seat, with/or without heater	•	•
- Boom-mounted 2	•	•	Airsuspension seat with heater and X isolator	•	•
- Cab front 2	•	•	Luxury operator seat with aico and wide armrest	•	•
- LED cab light next to side camera	•	•	<b>Digging equipment</b>		
- Extra LED lights on arm and Cab ( 4)	•	•	4.5 m (14'9") mono boom, 4.7 m (15'5") 2-piece boom	•	-
Cruise control	•	•	Dipper arms: 2.0 m (6'7"), 2.45 m (8'0"), 2.6 m (8'6"), 3.1 m (10'2")	•	•
Anti-theft system	•	•	5.2 m (17'1") 2-piece offset boom, 5.1 m (16'9") 2-piece boom	-	•
Tilting and rotating attachment preparation	•	•	Grab arm: 2.95 m (9'8")	-	•
Rotating beacon on cab and counterweight	•	•	<b>Hydraulic quick fit</b>		
<b>Superstructure</b>					
License plate preparation	•	•	S60 system	•	•
<b>Undercarriage</b>			Universal system	•	•
Trailer Towing system	•	•	<b>Service</b>		
Twin tires 10.00 – 20 / 11.00 – 20	•	•	Wheel chocks	•	•
Single tires 18R – 19.5 / 620/40-22.5	•	•	Tool kit, daily maintenance	•	•
Solid rubber tires 10.00-20/11.00-20	•	-	Automatic Greasing System	•	•
Stone protection rings	•	•	<b>Attachments</b>		
Rear bolted parallel dozer blade	•	•	Buckets, direct fit and quick couplers	•	•
Rear welded radial dozer blade	•	-	Lifting eye	•	•
Front bolted parallel dozer blade and rear outriggers	•	•	Steelwrist® tiltrotator	•	•
Front welded radial dozer blade and rear outriggers	•	-	<b>Hydraulic system</b>		
Grab holder	•	•	Holding valves on bucket	•	•
Mudguards, front/rear	•	•	Boom float function	•	•
Tool box, left hand side/right hand side	•	•	Boom suspension system	•	•
Drawer type Toolbox	•	•	Hydraulic oil, biodegradable ISO VG 32	•	•
Travel speed 20 km/h (12.4 mi/h), 30 km/h (18.6 mi/h), 35 km/h (21.7 mi/h)	•	•	Hydraulic oil, biodegradable ISO VG 46	•	•
Wide axle 2.75 m (9'0")	-	•	Hydraulic long life oil ISO VG 32	•	•
Automatic digging brake	•	•	Hydraulic long life oil ISO VG 68	•	•
Cruise control	•	•	Hydraulic equipment for:		
- Hammer & shears					
- Slope bucket/rotator					
- Grab/clam shell					
- Quick fit					
- Flow control					
- Flow & pressure control					

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**SELECTION OF VOLVO OPTIONAL EQUIPMENT**

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**Trailer hitch****Tire choice****Drawer type tool box****Automatic greasing system****2-piece boom or 2-piece offset boom (EWR170E)****Load holding valves on bucket cylinders, both sides**

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

**VOLVO**

Volvo Construction Equipment  
[volvoce.com](http://volvoce.com)



**Volvo Construction Equipment North America**  
**Warranty – Disclaimers – Limitations**  
**Limited Warranty**

Volvo Construction Equipment North America (“Volvo CE”) hereby extends to its authorized dealers (“Dealer”) and the Dealer’s end-use customers (“Customer”, and both Dealer and Customer are referred to herein as a “Buyer”), who purchase a new Volvo construction equipment machine (“Machine”) or new Volvo part (“Part”, both of which are referred to herein as a “Product”) from Volvo the following limited warranty:

Subject to the exceptions and limitations set forth below, Volvo CE or Dealer will repair or replace any part of a new Machine or new Part which proves to be defective in material or workmanship during the following periods (the “Warranty Period”):

**Volvo Wheel Loaders**

- 12 months/2500 hours

**Volvo Articulated Haulers**

- 12 months/2500 hours

**Volvo Rigid Haulers**

- 12 months/5000 hours

**Volvo Hydraulic Excavators**

- 12 months/2500 hours

**Volvo Pavers (ABG)**

- 12 months/2500 hours

**Volvo Landfill Compactors**

- 12 months/2500 hours

**Volvo Compact Diesel Excavators (less than 11 metric tons)**

- 12 months/2500 hours

**Volvo Compact Electric Excavators (less than 11 metric tons)**

- 12 months/2500 hours

**Volvo Compact Diesel Wheel Loaders (up to 100 net hp.)**

- 12 months/2500 hours

**Volvo Compact Electric Wheel Loaders**

- 12 months/2500 hours

**Volvo Compactors**

- 12 months/2500 hours

**Volvo Attachments**

- 12 months

**Volvo Parts**

- 12 months/2500 hours from the original purchase date from an authorized Volvo CE Dealer

**Volvo Remanufactured Components**

- 12 months/2500 hours from purchase date or install date if a VCE dealer completed the install.

**The Warranty Period commences immediately following the delivery of said Product to the Buyer who first puts said Product into use, or twelve (12) months from the shipping date (as listed in UCHP), whichever first occurs.** The foregoing limited warranty shall include the labor cost to accomplish the repair or replacement of the defective part provided that the repair or replacement was performed by a Dealer.

The foregoing warranty does not cover: (i) any Product found to have been damaged by abuse, accident, other casualty or a failure to maintain or use the warranted Product in accordance with the applicable manuals or instructions (**Buyer is required to use only original equipment manufacturer filters during the Warranty Period**);

(ii) the labor costs to repair or replace defective Parts after the expiration of the Warranty Period of the Machine in which such Part is located; (iii) overtime labor premiums; (iv) costs and expenses associated with the transportation of Dealer's service personnel to and from the location of the warranted Product; (v) any parts, components, attachments or accessories for which Buyer receives a separate warranty by the manufacturer or producer thereof (in specified cases said warranty may be administered by Volvo CE); (vi) maintenance items or ground engaging parts that have achieved their normal service life.

## INFORMATION SYSTEMS

The customer/machine owner is aware that the Volvo CE machine is equipped with one or more systems which may gather and store information about the Volvo CE machine (the "Information Systems"), including but not limited to information relating to machine condition and performance, and information relating to the operation of the machine (together, the "Machine Data"). The customer/machine owner agrees not to interfere with the operation of the Information Systems in any way.

Notwithstanding any termination or expiry of this agreement, the customer/machine owner acknowledges and agrees that Volvo CE may: (i) access the Information Systems at any time (including remote access); (ii) gather the Machine Data; (iii) store the Machine Data on AB Volvo Group systems; (iv) use the Machine Data in order to provide services to the customer/machine owner, as well as for its own internal and other reasonable business purposes; and (v) share the Machine Data within the AB Volvo Group and with selected third parties.

This standard warranty is conditional upon Volvo CE being able to gather and access the Machine Data at any time.

## DISCLAIMER OF IMPLIED WARRANTIES AND LIMITATION OF REMEDIES

THE FOREGOING WARRANTY TO BUYER IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

REMEDIES AVAILABLE TO BUYER ARE LIMITED TO MAKING A CLAIM UNDER THE FOREGOING WARRANTY AND ARE EXCLUSIVE AND EXPRESSLY LIMITED TO OBTAINING THE PARTS AND LABOR IN ACCORDANCE WITH THE TERMS OF SAID WARRANTY.

## Warranty – Disclaimers – Limitations

### LIMITATIONS OF LIABILITY AND DAMAGES

Regardless of whether a claim against Volvo CE or Dealer is based on the foregoing warranty or is an action in contract, tort (negligence or strict liability) or otherwise, their respective liability for losses, damages or expenses of any kind arising from the design, manufacture, repair or sale of the Products is limited, unless otherwise prohibited by law, to an amount not exceeding the cost performing the obligations contained in the foregoing warranty, and in no event shall their respective or joint liability exceed the value of the Product or part thereof giving rise to such liability.

### CONSEQUENTIAL AND SIMILAR DAMAGES NOT RECOVERABLE

Except for performing the obligations of the foregoing warranty in accordance with its terms, Volvo CE and Dealer shall have no liability for loss, damage, or expense, directly or indirectly, attributable to a loss of use of a Product, loss or damage to property other than the Product, loss or damage to the Product or any part thereof or any other economic or commercial loss, including, without limitation, lost profits or special or consequential damages (except liability for any type of consequential damages which by law may not be disclaimed). The parties intend that this prohibition against consequential and similar damages will survive and be effective even if the limitation of remedies in the foregoing sections is found to fail of its essential purpose under section 2-719 of the Uniform Commercial Code.

## ALLOCATION OF RISK

The foregoing warranty disclaimers, limitations of liability and limitation of remedies are bargained allocations of risks among (i) the Customer who purchased the Product; (ii) the Dealer who sold the Product, and (iii) Volvo CE, which is a third party beneficiary of the contract of sale between the Customer and the Dealer. The Buyer of the Product accepts the foregoing warranty and the other bargained for allocations of risk as part of the agreed price for the purchase of the Product to which the foregoing warranty applies. Volvo CE is prepared to offer different warranties and other allocations of risk for other prices. However, any such change in the warranty or the allocation of risks must be confirmed in writing by Volvo CE.

## STATUTE OF LIMITATIONS

Any action by a Buyer of a Product for breach of contract, for breach of warranty arising under, or for a cause of action arising out of the sale of a Product, whether based on contract, tort (negligence or strict liability) or otherwise, shall be commenced within one (1) year after the cause of action has accrued. Any such cause of action shall be deemed to have accrued at the earlier of (i) the discovery of the defect or breach, or (ii) the expiration of the applicable Warranty Period.



Company ID Number: 505216

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

**Employer Cowin Equipment Co Inc**

**Tracy Womack**

Name (Please Type or Print)	Title
<b>Electronically Signed</b>	<b>02/15/2012</b>
Signature	Date

**Department of Homeland Security – Verification Division**

**USCIS Verification Division**

Name (Please Type or Print)	Title
<b>Electronically Signed</b>	<b>02/15/2012</b>
Signature	Date

**Information Required for the E-Verify Program**

**Information relating to your Company:**

Company Name:	<b>Cowin Equipment Co Inc</b>
Company Facility Address:	<b>2238 Pinson Valley Parkway</b>
	<b>Birmingham, AL 35217</b>
Company Alternate Address:	<b>PO Box 10624</b>
	<b>Birmingham, AL 35202</b>
County or Parish:	<b>JEFFERSON</b>
Employer Identification Number:	<b>630141942</b>