

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@lowin.com

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

By submitting this bid, we agree:

Initials

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

JE

That the bid price will be honored for all counties for the period from Jan. 1, 2022 to Dec. 31, 2022.

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

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: \$ 227,790.⁰⁰
(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: \$ 275,700.⁰⁰

Equipment Model #: Volvo EWR 170E

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 the freight preparation, delivery and standard warranty cost. Freight preparation, 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*

JE

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

JE

Equipment Model #: Volvo EWR170 E

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 **42,000** lbs.

Yes ☒ No ☐
Page # 17

ENGINE

Four (4) cylinders, turbo charged, diesel engine with minimum of **150** Horsepower. Displacement minimum of **245** cu. In.

Yes ☒ No ☐
Page# 17

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

Yes ☒ No ☐
Page # attachment

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 # attachment

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 **5,400** psi

Yes ☒ No ☐
Page # 17

Implement circuit maximum pressure not less than **5,400** 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 # 26

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 # 32

CAB

Road, tail, and turn lights

Yes ☒ No ☐
Page # attachment

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 # attachment

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 ☐
Page # 38

Machine shall have a boom suspension system

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 Friday, October 22, 2021**. Bid specifications are available at <http://www.alabamacounties.org/heavy-equipment/> for each of the following items:

Asphalt Milling Attachments
Light Duty Backhoe
Medium Duty Backhoe
Heavy Duty Backhoe Option A
Heavy Duty Backhoe Option C
85 PTO Tractor Option A
85 PTO Tractor Option B
95 PTO Tractor Option A
95 PTO Tractor Option B
Track Mount Excavator Option A-1
Track Mount Excavator Option A-2
Track Mount Excavator Option A-3
Track Mount Excavator Option B-1
Track Mount Excavator Option B-2
Track Mount Excavator Option B-3
Track Mount Excavator Option C-1
Track Mount Excavator Option C-2
Compact Track Mount Excavator Option D-1
Compact Track Mount Excavator Option D-2
Compact Track Mount Excavator Option D-3
Mini Track Excavator Option E-1
19 Ton Wheeled Excavator
21 Ton Wheeled Excavator
2WD Highway Speed Truck Excavator
4WD Highway Speed Truck Excavator
Light Duty Motor Grader – Option A
Light Duty Motor Grader – Option B
Heavy Duty Motor Grader – Option A
Heavy Duty Motor Grader – Option B
Medium Duty Motor Grader – Option A
Medium Duty Motor Grader – Option B
Medium Duty Motor Grader – AWD
100 HP Heavy Duty Hydrostatic Bulldozer – Option B
100 HP Heavy Duty Hydrostatic Bulldozer – Option C
100 HP Heavy Duty Hydrostatic Bulldozer – Option D

125 HP Heavy Duty Hydrostatic Bulldozer – Option A
125 HP Heavy Duty Hydrostatic Bulldozer – Option B
Mulching Dozer
3 CY Wheel Loader Option A
3 CY Wheel Loader Option B
3 CY Wheel Loader Option C
3.65 CY Wheel Loader Option A
3.65 CY Wheel Loader Option B
Heavy Duty Dump Chassis – Option A
Heavy Duty Dump Chassis – Option C
Heavy Duty Dump Chassis – Option D
Heavy Duty Dump Chassis – Option F
Lowboy Tractor Option – A
Lowboy Tractor Option – B
Lowboy Tractor Option – E
Skid Steer Loader w/no attachments
Skid Steer Attachments
Ride-on Industrial Boom Mower
Asphalt Distributor Truck
Chip Spreader
Rubber Tire Roller
7.5 Ton Single Drum Vibratory Roller
One-man Pothole Patcher Option A
One-man Pothole Patcher Option B
Trailer Mounted Patcher – Diesel
Trailer Mounted Patcher – Air Compressor/Tools
Trailer Mount Mastic Patcher/Crack Sealer
Asphalt Storage Tanks
Half Round End Dump Trailer
Lowboy Trailers – 35 Ton/55 Ton
Tag Trailer – 20 Ton
Road Wideners and Attachments
16' Steel Dump Bodies Options B, D, E, F (Automatic and Manual)

Time is of the essence in submitting bids and only bids received in the Association office by 10:00 a.m. Central Time on Friday, October 22, 2021 will be opened and considered. Bidders and any other interested individuals are invited to attend the bid opening.

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) 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 hand written 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: Joint Bid Program
Association of County Commissions of Alabama
2 North Jackson Street 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.

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., as amended by Act No. 2012-491).

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 one year with an option to renew for a second and third year 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 90 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 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 36103

E-mail: barbeng@bellsouth.net

VOLVO

Construction Equipment

Pricing Valid From: 01/01/2022

Model: Volvo EWR170E GPE Wheel Excavator Build Sheet

Description	Article	MSRP
Volvo EWR170E GPE Wheel Excavator	EW170E	\$202,784.16
2-piece boom	XW10125	\$15,275.52
Arm, 8'6" (2.45m)	XW10212	\$5,124.48
Linkage w/o lifting eye	XW10310	\$0.00
Twin 10.00 16PR Bridgestone	XW20111	\$6,623.88
Stone protect.rings T/wheels	XW20310	\$197.88
Blade front par, OR rear, bolt	XW20653	\$16,177.88
Tool box left hand side (including steps)	XW20810	\$614.04
Axles Standard 8'4" (2.55m)	XW20910	\$1,031.56
Axle locking plate 15mm	XW21010	\$0.00
Engine NA (MY 2019)	XW30113	\$0.00
Tropical cooling.	XW30212	\$0.00
35 km/h (22 mph) Equipment	XW30712	\$0.00
CareCab w/ opening hatch	XW40110	\$412.76
Seat, air suspension with heater	XW40212	\$1,097.52
Seat belt, 3 inch retractable	XW40313	\$0.00
Joystick, proportional	XW40412	\$2,103.92
Radio MP3&USB&Bluetooth	XW40714	\$0.00
Dust net for radiator and oil cooler	XW41114	\$0.00
FLASHING BEACON CAB LED	XW50138	\$167.28
Add. Flash. Beacon CWT LED	XW50139	\$350.88
Travel alarm w/ 10 sec delay	XW50116	\$0.00
Standard travel lights, LED	XW50126	\$303.28
Additional camera on right hand	XW50128	\$0.00
Electrical center passage, 18 channels	XW50213	\$868.36
CareTrack, GSM/Satellite	XW50418	\$0.00
CareTrack Connectivity 4 yr Subscription	XW50611	\$0.00
Hydraulic long life oil ISO VG46	XW60116	\$913.24
X1, Breaker/Shear Piping	XW60245	\$841.16
Hydraulic proportional pedal	XW60615	\$139.40
X1 flow & pressure control	XW60411	\$669.80
Quick fit piping, SQF	XW60832	\$1,182.52
7 Work lights LED	XW50152	\$610.64
Boom Suspension System	XW60929	\$4,564.16
Smart View	NMX14578	\$2,484.04
S6 Quick Coupler	XW8297913	\$3,429.24

Pilot control pattern change	XW60910	\$1,251.88
Boom float hydraulics	XW60912	\$1,476.96
Reversible Cooling Fan	NMX14582	\$4,575.04
Manual, safety	XW70344	\$0.00
Counterweight standard (9,920 lbs)	XW80115	\$0.00
Frame Lifetime Warranty	XW80342	\$429.08
Overseas Protection	XW80345	\$0.00
No bucket w/ pins	XW8297918	\$0.00
TOTAL MSRP as per SPECIFICATIONS		275700.56

OPTIONS

Basic

Dipper arm		
Arm, 6'7" (2.0m)	XW10210	\$3,941.96
Arm, 8'6" (2.6m)	XW10212	\$5,124.48
Material handling arm	XW10214	\$5,974.48
Arm, 10'2" (3.1m)	XW10215	\$6,111.84
Bucket linkage		
Linkage w/ lifting eye	XW10311	\$223.72

UC

Twin Tire Sets		
Twin 10.00 20-16PR MITAS	XW20116	\$6,621.84
T/wheels 10.00 20 16PR EM22 Mitas	XW20127	\$7,037.32
T/wheels T900, 10.00-20-16PR, Trellenberg	XW20128	\$6,184.60
Solideal Magnum 10.00-20/7.5	XW20129	\$15,429.88
Solideal Magnum 11.00	XW20130	\$16,443.08
T/wheels 315/70R22.5 HBI DELCORA	XW20131	\$5,250.28
T/wheels 10.00-20 Nokian ARMOR Gard 2	XW20132	\$7,009.44
Single Tire Sets		
18R-19,5 Michelin	XW20210	\$5,995.56
C3_Single wheels 620/40 22,5 Alliance	XW20212	\$6,397.44
S/wheels 600/50 22.5 24PR Noki	XW20214	\$6,775.52
Mudguards		
Fixed mudguards front & rear	XW20510	\$943.84
Axle mounted mudguards front & rear	XW20511	\$1,014.56
Metal Mudguards	XW20512	\$1,270.24
Support blade + Outriggers		
Blade rear parallel	XW20651	\$6,559.28
Blade front, Outriggers rear, w/ rear hitch	XW20657	\$16,559.36
Blade rear only w hitch rear	XW20658	\$7,038.00
Blade front/Outrigger rear w/ front & rear hitch	XW20659	\$16,974.16
Grabholder UC		
Grab holder, bolt on type	XW20710	\$0.00

Tool box UC

Drawer Type Toolbox Left hand	XW20813	\$852.04
Drawer Type Tool Box right hand	XW20814	\$852.04
Tool box UC Right hand side	XW20815	\$614.04

Axles

Axles 9'0" (2.75m)	XW20911	\$1,258.00
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Axle locking plates

Axle locking plate 40mm	XW21011	\$461.04
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Auto digging brake

Automatic digging brake	XW21111	\$650.76
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Trailer Hitch

Trailer Hitch 40mm, for Blade	XW22001	\$1,134.24
Trailer Hitch 40mm, for Outrig	XW22002	\$1,134.24
TRAILER HITCH 50MM, for Blade	XW22003	\$1,418.48
TRAILER HITCH 50MM, for Outrig	XW22004	\$1,418.48

Engine**Auxiliary heaters**

Engine block heater, 120V	XW30510	\$276.08
Coolant heater by diesel, 5KW	XW30512	\$1,757.12

Water separator

Water separator with heater	XW30611	\$306.68
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Travel motor

20 km/h (12.4 mph) Equipment	XW30710	\$0.00
30 km/h (18.5 mph) Equipment	XW30711	\$0.00

Automatic Stop

Automatic Engine Shutdown	XW30801	\$501.16
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Cab**Cabin type**

CareCab w/ fixed hatch	XW40111	\$0.00
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Operator seat

Seat, mechanical suspension w/o heater	XW40210	\$1,006.40
Seat, mechanical suspension with heater	XW40211	\$1,006.40
Seat, luxury	XW40217	\$1,566.04

Control joystick

8 multifunction joystick for tilt /rotator attachment, CDC, Elevating Cab	XW40419	\$2,521.44
CDC Steering system w steering column	XW40420	\$3,939.24
Grapple Bucket Changeover	XW40424	\$1,597.32
Blade/Outrigger functions on LH Joystick	XW40425	\$393.72

Climate control equipment

Hepa filter	XW40514	\$2,654.04
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Key

Combination key	XW40610	\$0.00
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Cabin Interior

Front Rain shield (cannot have opening hatch)	XW40810	\$271.32
Sun shield, metal (cannot have opening hatch)	XW40812	\$123.08
Lower wiper.	XW40813	\$263.84
Ashtray and lighter	XW40814	\$46.24
Protection Equipment		
FOPS Cabin Mounted	XW41110	\$1,058.08
FOG, cabin mounted (HD frame mounted)	XW41111	\$2,475.20
C3_Anti vandal kit	XW41112	\$918.68
Safety net front window.	XW41113	\$884.00
Electrics		
Electric Equipment		
Extra halogen work lights, two rear lamps on cab and counterweight	XW50110	\$303.28
Antitheft , code-lock	XW50119	\$0.00
FLASHING BEACON CAB LED	XW50138	\$167.28
Add. Flash. Beacon CWT LED	XW50139	\$350.88
DigAssist 2D	XW50140	\$11,157.44
DigAssist In-Field Design	XW50141	\$5,207.44
DigAssist, Tilt Bucket Prep	XW50143	\$902.36
VSV(Volvo Smart View) for IC	XW50144	\$2,910.40
7 work lights LED	XW50152	\$610.64
4 extra LED + Remote control	XW50153	\$346.80
Dig Assist Start	XW50155	\$8,043.72
DigAssist Topcon 3D	XW50156	\$23,788.44
DigAssist Trimble 3D	XW50157	\$23,788.44
DigAssist On-Board Weighing	XW50158	\$3,714.84
Green Light	XW50167	\$206.72
Dig Assist, Smart connect	XW50170	\$1,456.56
Electr. centre passage		
Electrical center passage, 24 channels	XW50214	\$1,024.08
Cruise control		
Cruise control with creep speed	XW50310	\$543.32
Auto lubrication system		
Auto lubrication w linkage	XW50512	\$5,556.96
Hydraulics		
Hydraulic fluid		
Hydraulic oil Bio ISO VG46	XW60114	\$1,903.32
Hydraulic long life oil ISO VG32	XW60115	\$913.24
Hydraulic long life oil ISO VG68	XW60117	\$913.24
Quick fit piping		
Quick fit piping, UQF	XW60833	\$1,182.52
Attachment Circuits		
X1 extra pipe for slope and rotator	XW60831	\$85.68
Grapple piping bkt cyl.	XW60836	\$1,476.96

Smart connect for Tiltrotator	XW60843	\$2,904.96
Tiltrot. Contr.Syst. 3rd Gen	XW60844	\$5,650.12
X3 Control	XW60860	\$2,991.32
Auxiliary machine control		
Boom suspension system	XW60929	\$4,564.16
Holding valve on bucket cylind		
Holding valve on bucket cylind	XW61222	\$962.20
Service		
Service + Maintenance Equipm.		
Tool Kit, daily maintenance	XW70210	\$146.88
Manuals & Catalog		
Manual, French	XW70325	\$0.00
Manual, Spanish	XW70330	\$0.00
Other		
Others		
SMV-plate (warning triangle)	XW80327	\$0.00
Wheel chock	XW80337	\$152.32
Special Applications		
Front OR and Rear Blade	NMX14248	\$22,060.56
Height limit 2 Pcs Boom only;	NMX14405	\$4,631.48
2 outlets for double act cyl;	NMX14542	\$590.92
Volvo Smart View	NMX14578	\$2,484.04
Reversible cooling fan_	NMX14582	\$4,575.04
Front OR / Rear Blade 2,75m	NMX14633	\$22,454.28
Blade re 2,75 only w RR hitch	NMX14705	\$7,565.68
Attachment		
Quick fit bracket		
SQF S60 hydraulic coupler w/safety hook for EW	XW8297913	\$3,429.24
QC_QUICK COUPLER S1 WITH HOOK	XW8307072	\$3,351.72
VQC U16 hydraulic pin-grabber coupler for EW	XW8307073	\$5,714.72
Bucket Connections		
C3_Less Bucket w S6-UQF type Pins	XW8283192	\$0.00
Buckets Direct Fit		
18" Pin-on GP (V4) bucket, 0.39 yd, 3 15GPE teeth, weld-on side cutters	XW8293585	\$2,903.60
24" Pin-on GP (V4) bucket, 0.47 yd, 3 15GPE teeth, weld-on side cutters	XW8293588	\$3,053.20
35" Pin-on GP (V4) bucket, 0.76 yd, 4 15GPE teeth, weld-on side cutters	XW8293591	\$3,404.08
35" Pin-on GP (V4) bucket, 0.76 yd, 4 15GPE teeth, bolt-on side cutters, safety hook	XW8293592	\$3,404.08
41" Pin-on GP (V4) bucket, 0.92 yd, 4 15GPE teeth, weld-on side cutters	XW8293594	\$3,867.84
49" Pin-on GP (V4) bucket, 1.15 yd, 5 15GPE teeth, weld-on side cutters	XW8293599	\$3,801.88

53" Pin-on GP (V4) bucket, 1.26 yd, 6 15GPE teeth, weld-on side cutters	XW8293600	\$3,963.72
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S6 Buckets

24" S60 GP (V4) bucket, 0.43 yd, 3 15GPE teeth, weld-on side cutters	XW8293569	\$2,335.12
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30" S60 GP (V4) bucket, 0.55 yd, 3 15GPE teeth, weld-on side cutters	XW8293571	\$2,511.24
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35" S60 GP (V4) bucket, 0.71 yd, 4 15GPE teeth, weld-on side cutters	XW8293573	\$2,605.76
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41" S60 GP (V4) bucket, 0.86 yd, 4 15GPE teeth, weld-on side cutters	XW8293576	\$2,821.32
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47" S60 GP (V4) bucket, 1.01 yd, 5 15GPE teeth, weld-on side cutters	XW8293580	\$2,921.96
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41" S6 GP (V4) bucket, 0.92 yd, 4 15GPE teeth, weld-on side cutters	XW8293610	\$3,829.76
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49" S6 GP (V4) bucket, 1.15 yd, 5 15GPE teeth, weld-on side cutters	XW8293614	\$3,801.88
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53" S6 GP (V4) bucket, 1.26 yd, 6 15GPE teeth, weld-on side cutters	XW8293615	\$3,963.72
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Buckets for S1

35" S1 GP (V4) bucket, 0.86 yd, 4 30GPE teeth, weld-on side cutters	XW8293633	\$3,297.32
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Buckets for S60

37" Tiltrotator S60 GP (V6) bucket, 0.92 yd, 4 GPE teeth	XW8295513	\$3,429.92
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39" Tiltrotator S60 GP (V6) bucket, 0.92 yd, 4 GPE teeth	XW8295514	\$3,525.12
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41" Tiltrotator S60 GP (V6) bucket, 0.98 yd, 4 GPE teeth	XW8295515	\$3,559.80
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V6TGX_S60_1600_0.75_NN_N_NS_NN	XW8295591	\$3,282.36
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19" Tiltrotator CAX (V6) cable bucket, 0.43 yd	XW8296018	\$2,475.88
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27" Tiltrotator CAX (V6) cable bucket, 0.71 yd	XW8296019	\$2,597.60
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Tiltrotator

SteelWrist TRX20 S60 tilt rotator (requires S60 quick coupler)	XW8300830	\$30,592.52
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SteelWrist TRX20 S60 tilt rotator w/gripper (requires S60 quick coupler)	XW8300831	\$32,391.12
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ACCA

Volvo Construction Equipment



John Edwards
Governmental Sales Manager
850-685-7055
jedwards@cowin.com

EWRI50E, EWRI70E

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

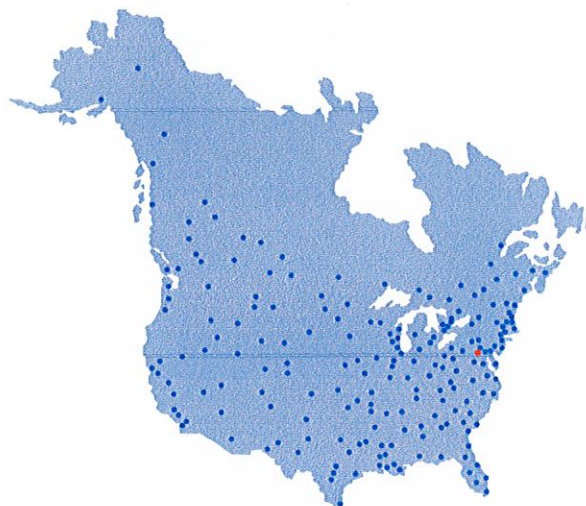
Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.

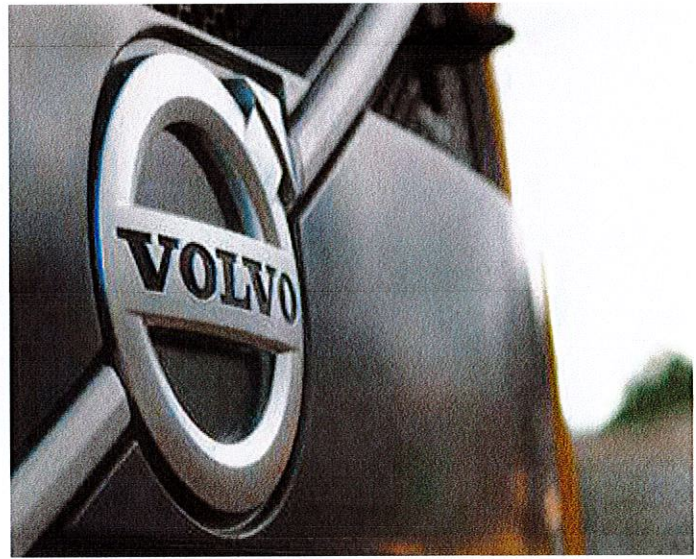
The strength of our dealer network is enhanced with extensive individualized product support training at our best-in-class Customer Center in Shippensburg and through hands-on training. Using a great Product Demonstration Center featuring a dedicated area for most common applications, visitors operate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

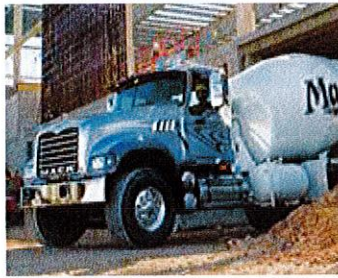




Volvo Trucks



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.

“ ”

EW150E in action

I like the hydraulics, they are really responsive.
Test driver Sebastian Alm, Firma Sebastian Alm, Sweden



EW150E – 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.



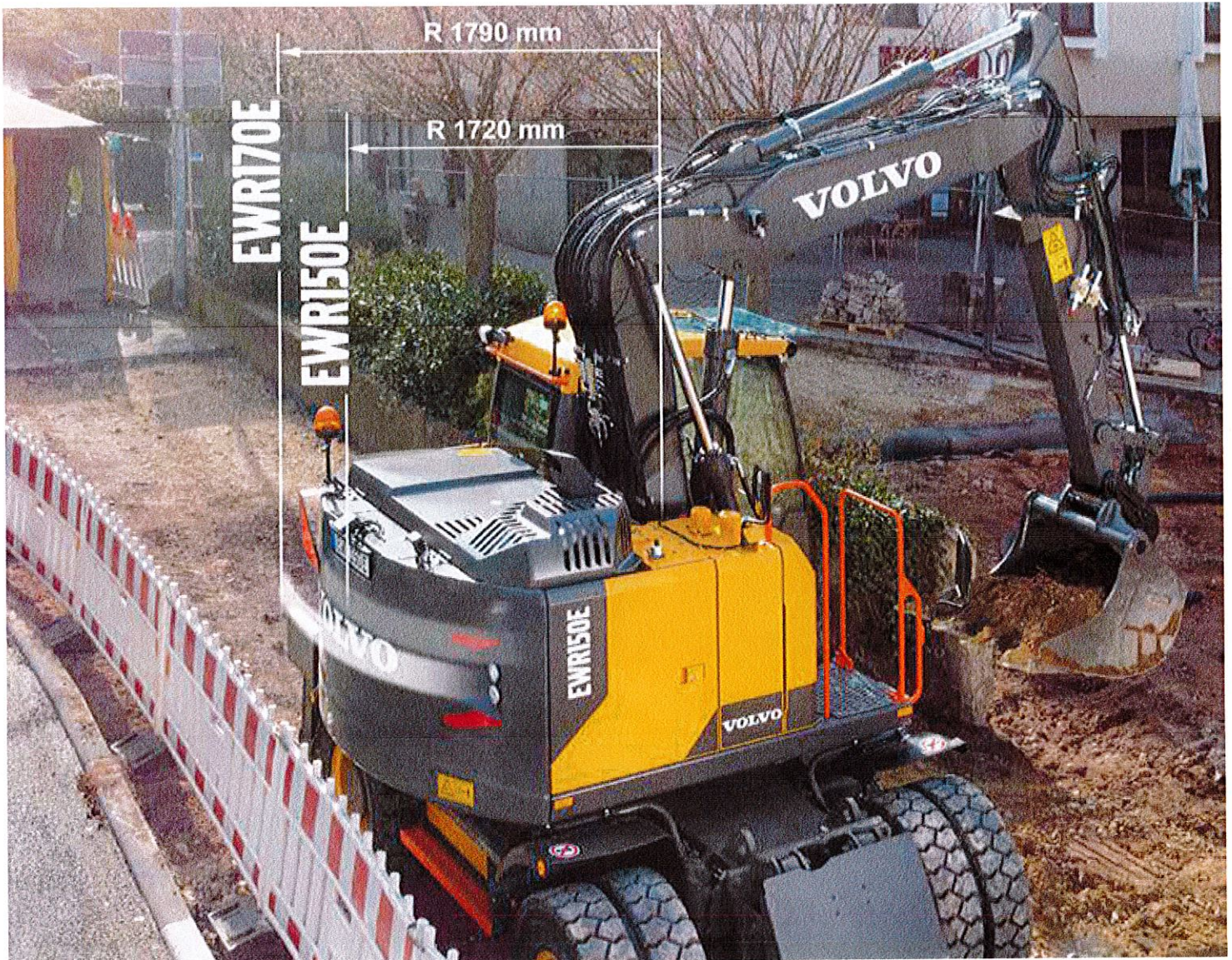
EW170E – Standard or wide axles

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 1 720 mm (5'8"), and the short tail swing of the EWR170E, at 1 790 mm (5'10") make for efficient and safe work in confined spaces.



“ ”

The short swing radius is clearly a major benefit, as it enables us to work in a tight residential environment without obstructing traffic.

On-site manager Thorsten Bargatsky, Gebr. Kickartz GmbH, Germany

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.



EWR150E in action

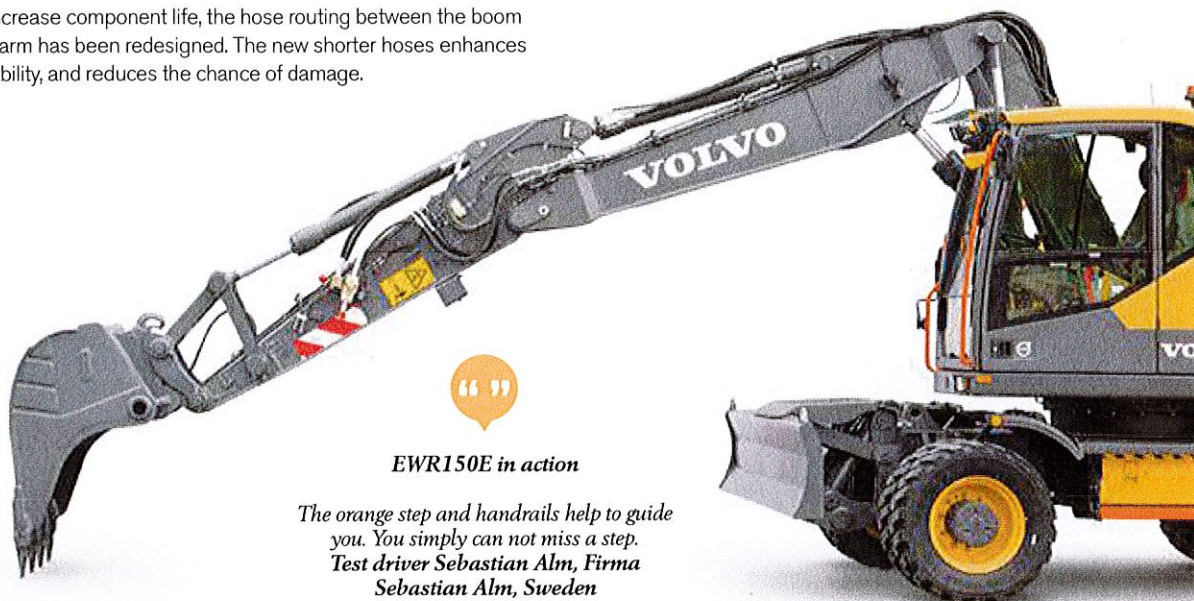
*At last, the machine we've been waiting for!
Civil engineer Rainer Ganzenmüller, Germany*

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.



EWR150E in action

*The orange step and handrails help to guide you. You simply can not miss a step.
Test driver Sebastian Alm, Firma
Sebastian Alm, Sweden*

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.



EWR150E in action

Really good track of surroundings.
Test driver Mattias Wallin, Mattias Wallin AB, Sweden



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/outtrigger controls in the left-hand joystick.



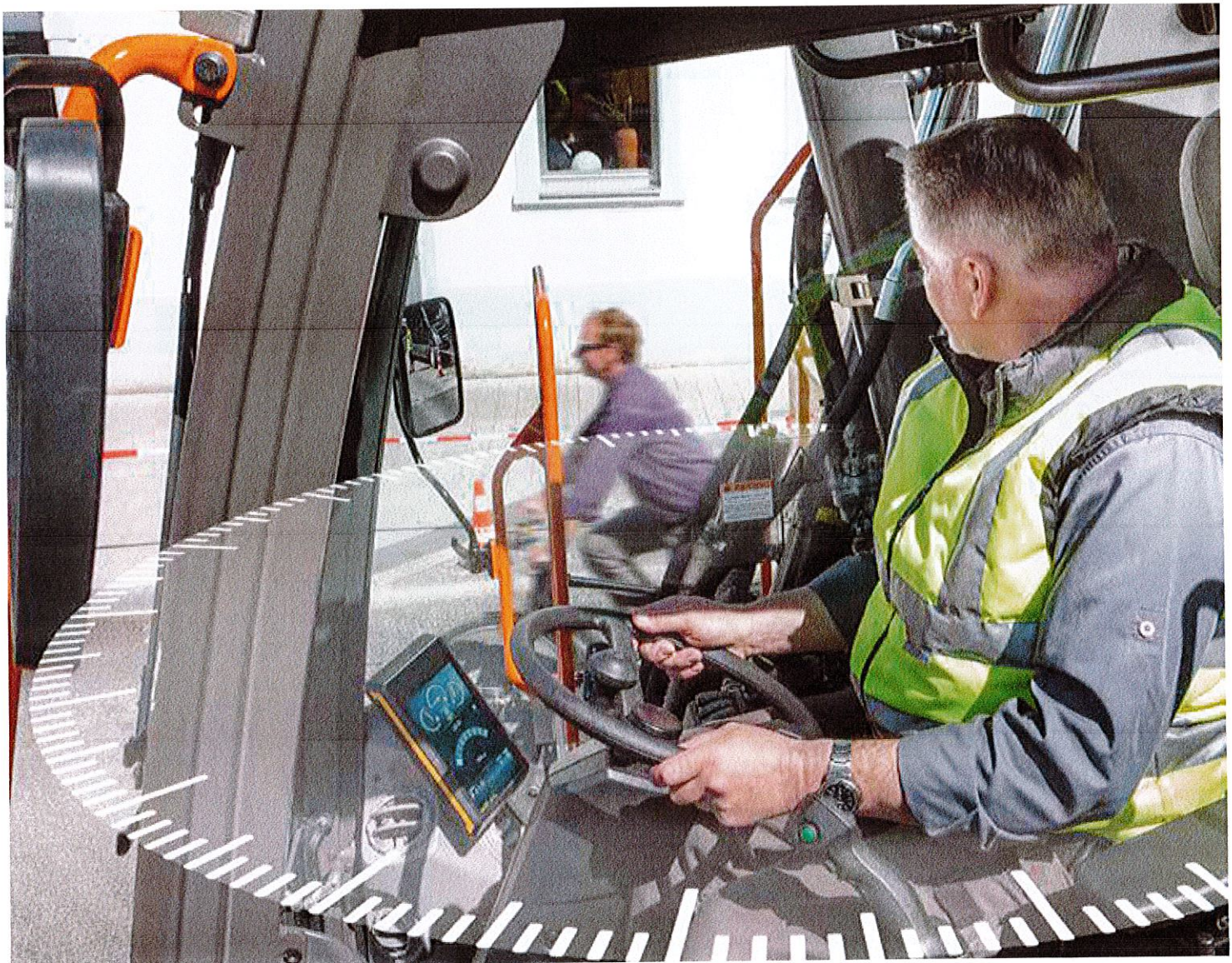
Operator convenience

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.



“ ”

EW150E in action

*The visibility to the right beats other manufacturers.
Test driver Sebastian Alm, Firma Sebastian Alm, Sweden*

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.



The environmental standards and requirements in municipal contracts are constantly being raised. When buying new machines it is necessary to anticipate future norms and government standards. The emissions performance of the Tier 4 final/Stage IV engines make these machines potentially a good long-term investment for us.

On-site manager Thorsten Bargatsky, Gebr. Kickartz GmbH, Germany

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.



EWR150E in action

The automatic digging brake works really well. It kept me steady, even on a slope.

Test driver Mattias Wallin, Mattias Wallin AB, Sweden



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.

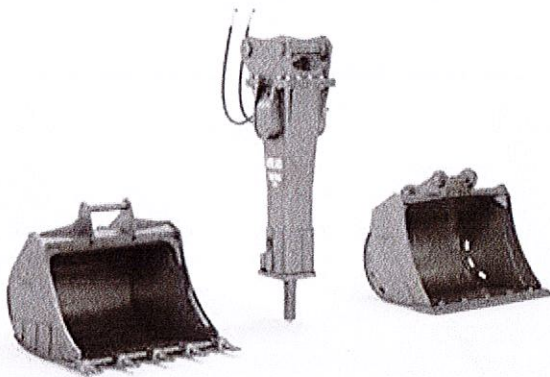


More than a machine

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.

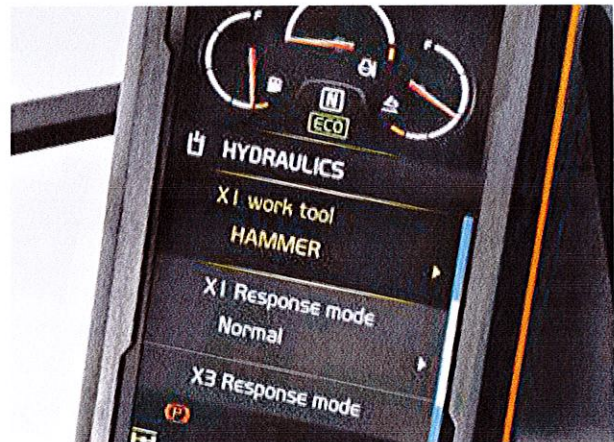
Match and attach

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.



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 consol to enable simple access to the attachments menu.



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.



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 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.

COMFORT AT SPEED

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

Automatic digging brake

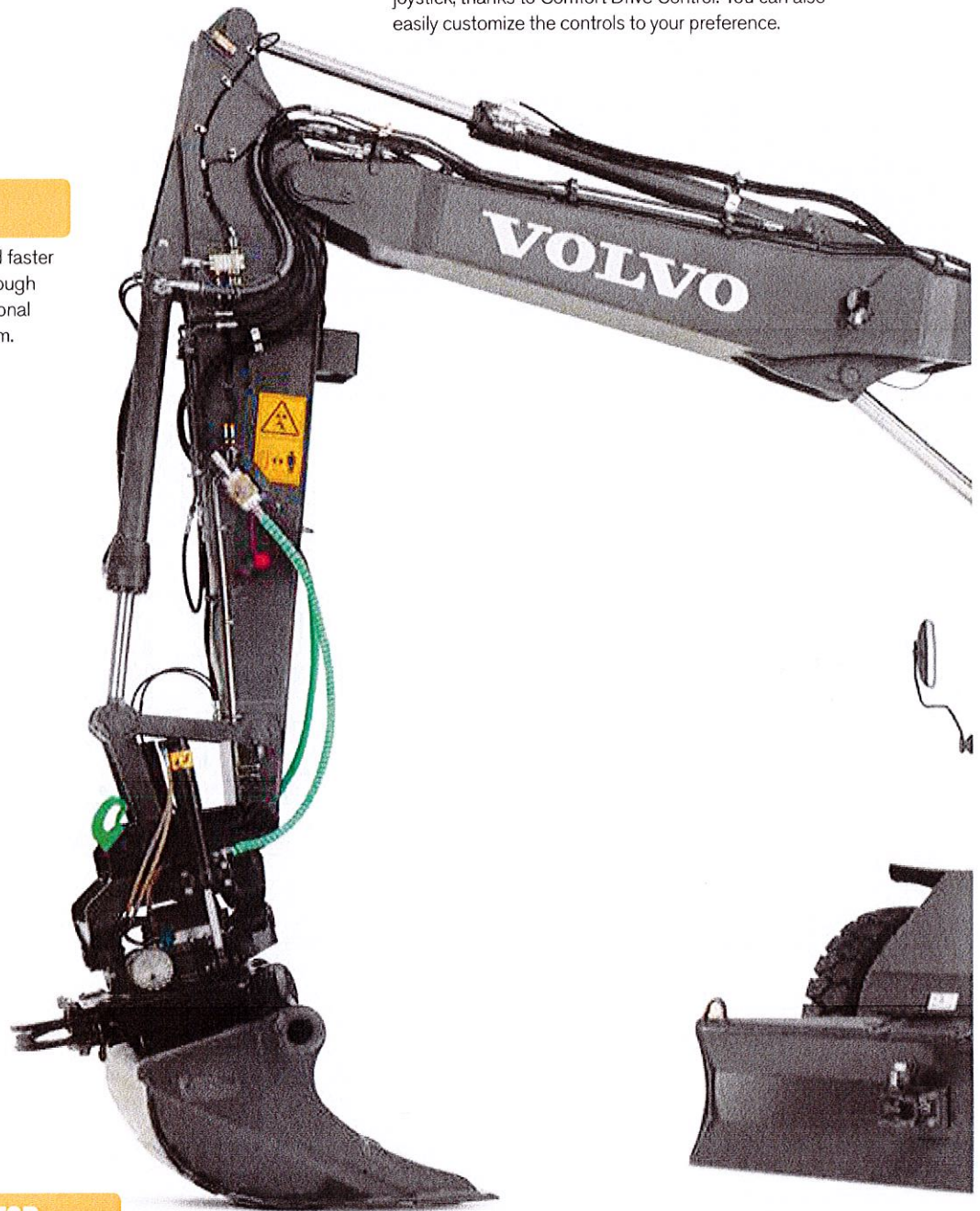
The automatic digging brake engages when the machine's speed is at zero, so you can get straight to work once you stop.

STEELWRIST® TILTROTATOR

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

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.

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.

BUILT IN PARTNERSHIP

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



Volvo EWR150E in detail

Engine

Volvo Construction Equipment is ready to comply with the tough new EU Stage IV 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 (in ³)	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 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

In cab, acc. to ISO 6396		
LpA	dB(A)	71
External, acc. to ISO 6395 and Directive 2000/14/EC		
LwA	dB(A)	100

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)	325 / 36 (4,714 / 5,221)
Travel system	MPa (psi)	36 (5,221)
Pilot system	MPa (psi)	3.5 (508)

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)
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With welded radial dozer blade rear only	kg (lb)	15,400 (33,951)
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With bolted dozer blade front and outriggers rear	kg (lb)	17,400 (38,360)
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With bolted dozer blade rear only	kg (lb)	16,300 (35,935)
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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)
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With welded radial dozer blade rear only	kg (lb)	15,900 (35,053)
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With bolted dozer blade front and outriggers rear	kg (lb)	17,900 (39,463)
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With bolted dozer blade rear only	kg (lb)	16,800 (37,038)
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Service Refill

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

Axle differential:

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

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 EU Stage IV 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-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/SAE J1349)	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	V	24
Batteries	V	2x12
Battery capacity	Ah	2x100
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.
 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	± °	9
with mudguards	± °	6
Twin wheels	type	10-20
Tractive force (net)	kN (lbf)	111 (24,954)
Travel speed, on road	km/h (mi/h)	20.0/30.0/35.0 (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)	4 (2.5)
Min. turning radius	m (ft)	7.3 (23.95)

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	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 level in cab according to ISO 6396		
LpA (standard)	dB(A)	71
LpA (tropical)	dB(A)	71
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
LwA (standard)	dB(A)	101
LwA (tropical)	dB(A)	102

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)	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)	19,200 (42,329)
With parallel blade rear only	kg (lb)	17,950 (39,573)

Service Refill

Fuel tank	l (gal)	200 (52.8)
DEF/AdBlue® tank	l (gal)	25 (6.6)
Hydraulic system, total	l (gal)	230 (60.8)
Hydraulic tank	l (gal)	104 (27.5)
Engine oil	l (gal)	16 (4.2)
Engine coolant	l (gal)	32 (8.5)
Transmission	l (gal)	2.5 (0.66)

Axle differential:

Front axle	l (gal)	9.5 (2.5)
Rear axle	l (gal)	12.5 (3.3)
Final drive	l (gal)	4x2.5 (4x0.7)

Cab

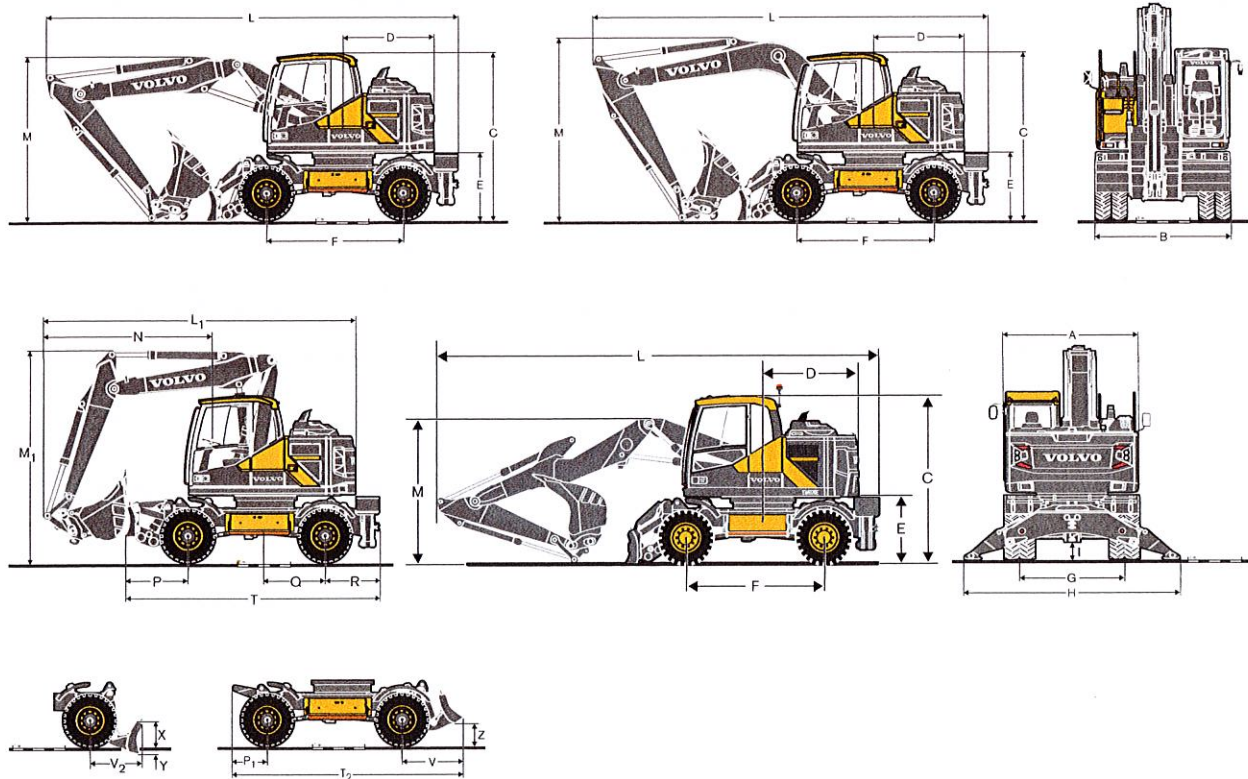
Audio system with remote control and Bluetooth system for hands free phoning. Independently adjustable joystick consoles.

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		Mono boom								2-piece boom							
		m, ft in		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		Mono,boom								2-piece,boom							
		m, ft in		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"	7,640	25'1"
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"	3,420	11'3"
L1	Overall length	mm	ft in	-	-	-	-	-	-	-	-	6,460	21'2"	6,570	21'7"	6,610	21'8"	5,740	18'10"
M1	Overall height of boom	mm	ft in	-	-	-	-	-	-	-	-	3,960	12'12"	3,970	13'0"	3,970	13'0"	3,980	13'1"
N	Front overhang	mm	ft in	-	-	-	-	-	-	-	-	3,050	10'0"	3,150	10'4"	3,190	10'6"	2,330	7'8"

** without bucket

DIMENSIONS			EWR170E					
Description		Unit	2 piece boom				2-piece offset boom	
		m, 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"		1790	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"			
				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"

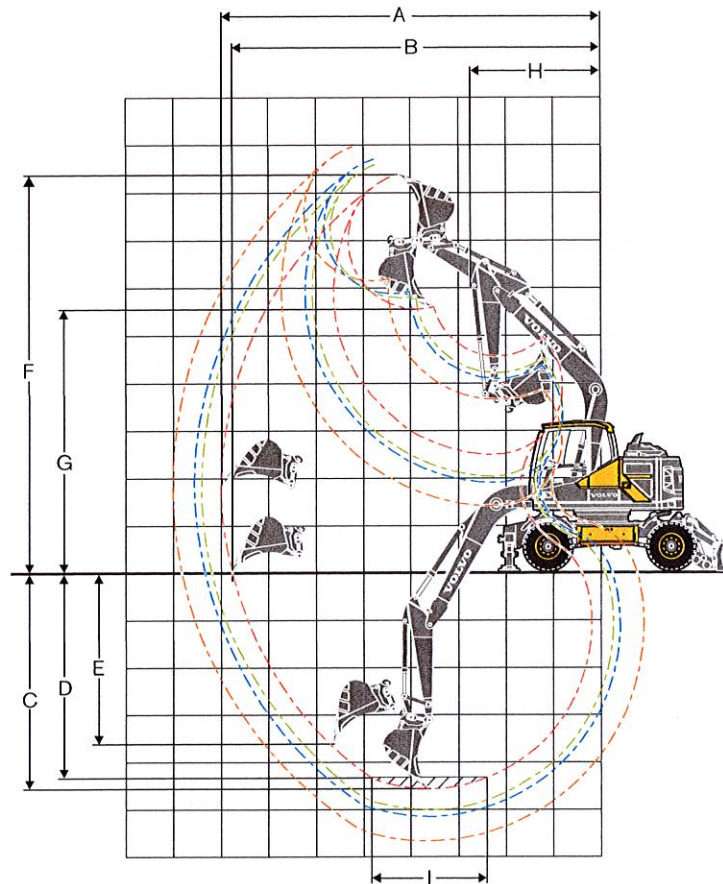
** without bucket

UNDERCARRIAGE DIMENSIONS

			EWR150E				EWR170E	
Description	Unit		Bolted undercarriage with parallel blade		Welded undercarriage with radial blade		Bolted undercarriage with parallel blade	
	mm	ft in						
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

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

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

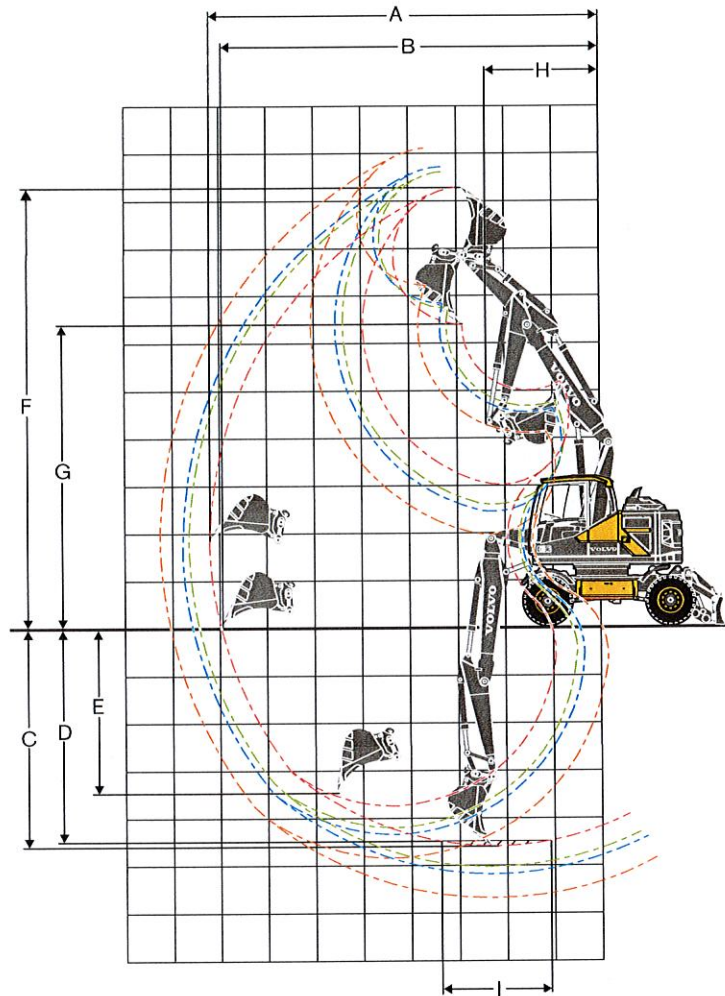
GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	730	193	730	193	730	193	730	193
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Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	730	193	730	193	730	193	730	193
S6 QF HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	l	gal	520	137	520	137	520	137	520	137
UQF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	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

		4.7 m, 15'5" 2-piece boom EWR150E									
		Unit		Arm							
		m	ft in	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	15'3"	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	15'1"
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/m³ 3,034 lb/yd³)	l	gal	730	193	730	193	730	193	730	193
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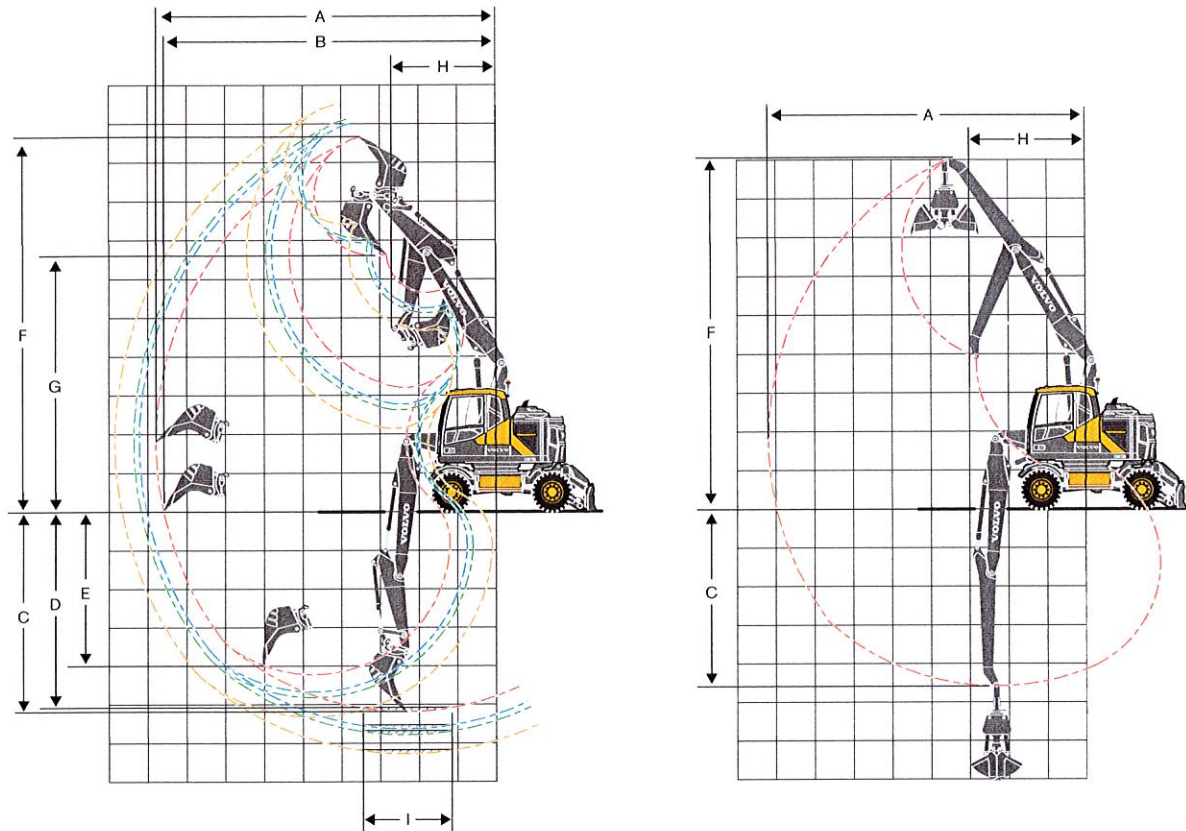
Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	730	193	730	193	730	193	580	153
S6 QF HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	l	gal	520	137	520	137	520	137	520	137
S1 QF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	730	193	730	193	730	193	580	153

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

				5.1 m, 16'9" 2-piece boom EWR170E									
				Unit		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"	9,210	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

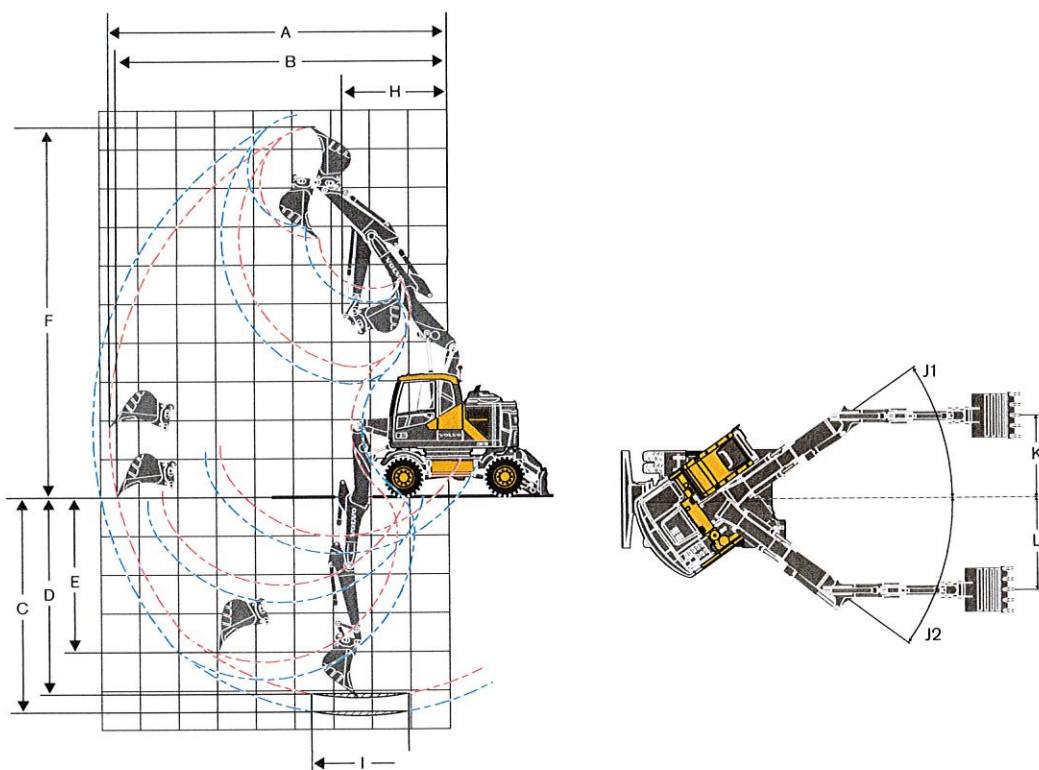
Max. recommended sizes for direct fit buckets

GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	957	253	957	253	858	227	770	203	-	-
HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	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/m³ 3,034 lb/yd³)	l	gal	870	230	780	206	780	206	-	-	-	-
S6 QF HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	l	gal	700	185	620	164	620	164	500	132	-	-
S1 QF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	870	230	700	185	700	185	620	164	-	-
S1 QF HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	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

		Unit		5.2 m, 17'1" 2-piece offset boom EWR170E			
		m	ft in	Arm			
				2.0	6'7"	2.45	8'0"
A	Max. digging reach	mm	ft in	8,760	28'9"	9180	30'1"
B	Max. digging reach on ground	mm	ft in	8,560	28'1"	9,000	29'6" 30'-6" with coupler
C	Max. digging depth	mm	ft in	5,210	17'1"	5,660	18'7" 19'-7" with coupler
	Max. digging depth at max. attachment offset with vertical trench walls	mm	ft in	2,280	7'6"	2,730	8'11"
	Min. digging depth at max. attachment offset with vertical trench walls	mm	ft in	1,030	3'5"	1,480	4'10"
D	Max. digging depth (l=2.44m, 8'0" level)	mm	ft in	5,100	16'9"	5,560	18'3"
E	Max. vertical wall digging depth	mm	ft in	3,980	13'1"	4,410	14'6"
F	Max. cutting height	mm	ft in	9,560	31'4"	9,880	32'5"
G	Max. dumping height	mm	ft in	6,690	21'11"	7,000	22'12"
H	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/m³ 3,034 lb/yd³)	l	gal	780	206	780	206
HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	l	gal	620	164	620	164

Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	780	206	700	185
S6 QF HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	l	gal	620	164	500	132
S1 QF GP-Bucket (1.8 t/m³ 3,034 lb/yd³)	l	gal	620	164	620	164
S1 QF HD-Bucket (2.1 t/m³ 3,540 lb/yd³)	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		Max.	
				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 Front radial blade Rear outriggers	7.5 m	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	6 m	●	-	-	-	-	-	-	-	-	3.8	4.1*	4.1*	4.1*	-	-	-	-	3.3	3.4*	3.4*	3.4*	4.9 m		
	20 ft	■	-	-	-	-	-	-	-	-	8.4	'9.0	'9.0	'9.0	-	-	-	-	7.3	'7.5	'7.5	'7.5	16.1 ft		
	4.5 m	●	-	-	-	-	-	-	-	-	3.7	4.4*	4.4*	4.4*	-	-	-	-	2.4	3.2*	3.2*	3.2*	5.9 m		
	15 ft	■	-	-	-	-	-	-	-	-	8.2	'9.7	'9.7	'9.7	-	-	-	-	5.3	'7.1	'7.1	'7.1	19.4 ft		
	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*	2.1	3.3*	3.3*	3.3*	6.4 m	
	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	4.6	'7.3	'7.3	'7.3	21.0 ft	
	1.5 m	●	-	-	-	-	-	-	-	-	-	3.3	6.0	5.6	6.2*	2.2	3.9	3.7	4.7*	2.0	3.4	3.2	3.6*	6.5 m	
	5 ft	■	-	-	-	-	-	-	-	-	-	7.3	13.2	12.3	'13.7	4.9	8.6	8.2	'10.4	4.4	7.5	7.1	'7.9	21.3 ft	
	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*	2.1	3.6	3.4	4.2*	6.3 m
	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	4.6	7.9	7.5	'9.3	20.7 ft
	-1.5 m	●	-	-	-	-	-	-	5.8	9.3*	9.3*	9.3*	3.2	5.8	5.5	6.3*	-	-	-	-	2.4	4.2	4.0	4.8*	5.6 m
	-5 ft	■	-	-	-	-	-	-	12.8	'20.5	'20.5	'20.5	7.1	12.8	12.1	'13.9	-	-	-	-	5.3	9.3	8.8	'10.6	18.4 ft
-3 m	●	-	-	-	-	-	-	5.9	7.0*	7.0*	7.0*	-	-	-	-	-	-	-	-	3.5	4.7*	4.7*	4.7*	4.3 m	
-10 ft	■	-	-	-	-	-	-	13.0	'15.4	'15.4	'15.4	-	-	-	-	-	-	-	-	7.7	'10.4	'10.4	'10.4	14.1 ft	
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*	2.7*	2.7*	5.5 m		
	20 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	'6.0	'6.0	'6.0	'6.0	18.0 ft	
	4.5 m	●	-	-	-	-	-	-	-	-	3.8	3.9*	3.9*	3.9*	2.4	3.7*	3.7*	3.7*	2.2	2.6*	2.6*	2.6*	6.4 m		
	15 ft	■	-	-	-	-	-	-	-	-	8.4	'8.6	'8.6	'8.6	5.3	'8.2	'8.2	'8.2	4.9	'5.7	'5.7	'5.7	21.0 ft		
	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*	1.9	2.6*	2.6*	2.6*	6.8 m	
	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	4.2	'5.7	'5.7	'5.7	22.3 ft	
	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*	1.8	2.8*	2.8*	2.8*	6.9 m	
	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	4.0	'6.2	'6.2	'6.2	22.6 ft	
	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*	1.9	3.2*	3.1	3.2*	6.7 m
	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	4.2	'7.1	6.8	'7.1	22.0 ft
	-1.5 m	●	5.8*	5.8*	5.8*	5.8*	5.7	9.7*	9.7*	9.7*	3.2	5.8	5.4	6.4*	2.2	3.8	3.6	4.5*	2.1	3.7	3.5	4.1*	6.1 m		
	-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	4.6	8.2	7.7	'9.0	20.0 ft		
	-3 m	●	-	-	-	-	-	5.8	8.0*	8.0*	8.0*	3.2	5.3*	5.3*	5.3*	-	-	-	-	2.9	4.6*	4.6*	4.6*	4.9 m	
	-10 ft	■	-	-	-	-	-	12.8	'17.6	'17.6	'17.6	7.1	'11.7	'11.7	'11.7	-	-	-	-	6.4	'10.1	'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 radial 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*	2.4	3.7*	3.7*	3.7*	2.1	2.4*	2.4*	2.4*	6.5 m		
	15 ft	■	-	-	-	-	-	-	-	-	'8.4	'8.4	'8.4	'8.4	5.3	'8.2	'8.2	'8.2	4.6	'5.3	'5.3	'5.3	21.3 ft		
	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*	1.8	2.4*	2.4*	2.4*	7.0 m	
	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	4.0	'5.3	'5.3	'5.3	23.0 ft	
	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*	1.8	2.6*	2.6*	2.6*	7.1 m	
	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	4.0	'5.7	'5.7	'5.7	23.3 ft	
	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*	1.8	3.0*	2.9	3.0*	6.9 m
	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	4.0	'6.6	6.4	'6.6	22.6 ft
	-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*	2.0	3.6	3.3	3.8*	6.2 m		
	-5 ft	■	'12.3	'12.3	'12.3	'12.3	12.3	'21.8	'21.6	'21.8	6.8	12.6	11.9	'14.3	4.6	8.4	7.7	'10.1	4.4	7.9	7.3	'8.4	20.3 ft		
	-3 m	●	-	-	-	-	-	5.7	8.2*	8.2*	8.2*	3.2	5.5*	5.4	5.5*	-	-	-	-	2.7	4.5*	4.5*	4.5*	5.1 m	
	-10 ft	■	-	-	-	-	-	12.6	'18.1	'18.1	'18.1	7.1	'12.1	11.9	'12.1	-	-	-	-	6.0	'9.9	'9.9	'9.9	16.7 ft	
-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.

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		Max.			
			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		Max.
			u	d	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 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		Max.	
				u	d	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	'6.0	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		Across UC		Along UC		Max.
				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 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		Max.
			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 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

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		Max.			
			u	d	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 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'	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	*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		Across UC		Along UC		Max.
			u	d	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 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
	-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
4.7 m, 15'5" 2 piece boom 2.45 m, 8'0" dipper arm Parallel 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'	-	-	-	-	2.5	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
	-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
4.7 m, 15'5" 2 piece boom 2.6 m, 8'6" dipper arm Parallel 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'	-	-	-	-	2.4	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					
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across 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*
	25 ft	■	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8	*11.2
	6 m	•	-	-	-	-	-	4.7	4.8*	4.8*	-	-	-	-	-	-	-	3.0	4.3*
	20 ft	■	-	-	-	-	-	10.4	*10.6	*10.6	-	-	-	-	-	-	-	6.6	*9.5
	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*
	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
	3 m	•	-	-	-	-	-	4.1	6.8*	6.8*	6.8*	2.8	4.7	4.4	5.3*	-	-	2.1	3.6
	10 ft	■	-	-	-	-	-	9.0	*15.0	*15.0	*15.0	6.2	10.4	9.7	*11.7	-	-	4.6	7.9
	1.5 m	•	-	-	-	-	-	3.9	7.0	6.5	7.8*	2.6	4.6	4.3	5.7*	-	-	2.0	3.5
	5 ft	■	-	-	-	-	-	8.6	15.4	14.3	*17.2	5.7	10.1	9.5	*12.6	-	-	4.4	7.7
	0 m	•	-	-	-	-	-	3.7	6.8	6.4	8.2*	2.6	4.5	4.2	6.0*	-	-	2.1	3.6
	0 ft	■	-	-	-	-	-	8.2	15.0	14.1	*18.1	5.7	9.9	9.3	*13.2	-	-	4.6	7.9
	-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
	-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
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*
	25 ft	■	-	-	-	-	-	*9.9	*9.9	*9.9	*9.9	-	-	-	-	-	-	8.8	*9.0
	6 m	•	-	-	-	-	-	4.3*	4.3*	4.3*	4.3*	3.0	4.3*	4.3*	4.3*	-	-	2.7	3.5*
	20 ft	■	-	-	-	-	-	*9.5	*9.5	*9.5	*9.5	6.6	*9.5	*9.5	*9.5	-	-	6.0	*7.7
	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*
	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
	3 m	•	-	-	-	-	-	4.2	6.3*	6.3*	6.3*	2.8	4.7	4.5	5.0*	2.0	3.4	1.9	3.3
	10 ft	■	-	-	-	-	-	9.3	*13.9	*13.9	*13.9	6.2	10.4	9.9	*11.0	4.4	7.5	4.2	7.3
	1.5 m	•	-	-	-	-	-	3.9	7.0	6.6	7.5*	2.6	4.6	4.3	5.6*	1.9	3.3	1.9	3.2
	5 ft	■	-	-	-	-	-	8.6	15.4	14.6	*16.5	5.7	10.1	9.5	*12.3	4.2	7.3	4.2	7.1
	0 m	•	-	-	-	-	-	3.7	6.8	6.4	8.1*	2.5	4.5	4.2	5.9*	-	-	1.9	3.3
	0 ft	■	-	-	-	-	-	8.2	15.0	14.1	*17.9	5.5	9.9	9.3	*13.0	-	-	4.2	7.3
	-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
	-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
	-3 m	•	-	-	-	-	-	3.8	6.8*	6.4	6.8*	-	-	-	-	-	-	2.9	5.1
	-10 ft	■	-	-	-	-	-	8.4	*15.0	14.1	*15.0	-	-	-	-	-	-	6.4	11.2
5.1 m, 16'9" 2-piece boom 2.6 m, 8'6" dipper arm Front blade Rear outriggers	7.5 m	•	-	-	-	-	-	4.3*	4.3*	4.3*	4.3*	-	-	-	-	-	-	3.7	3.7*
	25 ft	■	-	-	-	-	-	*9.5	*9.5	*9.5	*9.5	-	-	-	-	-	-	8.2	*8.2
	6 m	•	-	-	-	-	-	4.1*	4.1*	4.1*	4.1*	3.0	4.2*	4.2*	4.2*	-	-	2.6	3.3*
	20 ft	■	-	-	-	-	-	*9.0	*9.0	*9.0	*9.0	6.6	*9.3	*9.3	*9.3	-	-	5.7	*7.3
	4.5 m	•	-	-	-	-	-	4.5	4.9*	4.9*	4.9*	2.9	4.4*	4.4*	4.4*	-	-	2.1	3.1*
	15 ft	■	-	-	-	-	-	9.9	*10.8	*10.8	*10.8	6.4	*9.7	*9.7	*9.7	-	-	4.6	*6.8
	3 m	•	-	-	-	-	-	4.2	6.1*	6.1*	6.1*	2.8	4.7	4.5	4.9*	2.0	3.4	1.9	3.1*
	10 ft	■	-	-	-	-	-	9.3	*13.4	*13.4	*13.4	6.2	10.4	9.9	*10.8	4.4	7.5	4.2	*6.8
	1.5 m	•	-	-	-	-	-	3.9	7.0	6.6	7.4*	2.6	4.6	4.3	5.5*	1.9	3.3	1.8	3.1
	5 ft	■	-	-	-	-	-	8.6	15.4	14.6	*16.3	5.7	10.1	9.5	*12.1	4.2	7.3	4.0	6.8
	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
	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
	-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
	-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
	-3 m	•	-	-	-	-	-	3.7	6.8	6.4	7.0*	-	-	-	-	-	-	2.6	4.6
	-10 ft	■	-	-	-	-	-	8.2	15.0	14.1	*15.4	-	-	-	-	-	-	5.7	10.1

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		Max.
				u	d	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 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'	4.5	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)																		Max.		
					3.0 m, 10 ft				4.5 m, 15 ft				6.0 m, 20 ft				7.5 m, 25 ft								
					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					
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			
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			

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		Max.
			u	d	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 2.95 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
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	

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

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		Max.	
			u	d	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 2.0 m, 6'7" dipper arm Rear blade	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	
	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		
5.2 m, 17'1" 2-piece offset boom 2.45 m, 8'0" dipper arm Rear blade	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

	EWR150E	EWR170E
Engine		
Turbocharged, 4 stroke Volvo diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage IV emission requirements	•	•
Intake air pre-heater	•	•
ECO- Modus	•	•
Fuel filter and water separator	•	•
Fuel filler pump: 50 l/min (13.2 gal/min) with automatic shut-off	•	•
Aluminium core radiator	•	•
Electric / Electronic control system		
Contronics-computerized monitoring and diagnostic system	•	•
Adjustable automatic idling system	•	•
One-touch power boost	•	•
Adjustable monitor	•	•
Safety stop/start function and master electrical disconnect switch	•	•
2 Frame mounted halogen lamps	•	•
Alternator, 120 A	•	•
Batteries, 2 x 12 V/140 Ah	•	•
Start motor, 24 V/5.5 kW	•	•
CareTrack via GSM or satellite	•	•
Rear view camera	•	•
Side view camera left hand side	•	•
Superstructure		
LED Rear lights	•	•
Service walkway with anti-slip grating	•	•
Centralised lubricating point for slew bearing and boom	•	•
Undercarriage		
3 speeds: creep / offroad / road speed up to 35 km/h (21.75 mi/h)	•	•
Oscillating front axle $\pm 9^\circ$ with out mudguards/ 6° with mudguards	•	•
2-circuit travel brakes	•	•
Maintenance-free propeller shafts	•	•
Hydraulic system		
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	•	•

STANDARD EQUIPMENT

	EWR150E	EWR170E
Cab and interior		
Volvo Care Cab with fixed roof hatch /ROPS	•	•
Cup holder	•	•
Door locks	•	•
Safety glass, light tinted	•	•
Floor mat	•	•
Horn	•	•
Large storage area	•	•
Pull-up type front window	•	•
Removable lower windshield	•	•
Retractable seat belt	•	•
Windshield wiper with washer and intermittent feature	•	•
Heater & air-conditioner, automatic	•	•
Hydraulic dampening cab mounts	•	•
Adjustable operator seat and joystick control console	•	•
Adjustable steering column	•	•
Hydraulic safety lock lever	•	•
Control joysticks, Proportional or L8 proportional	•	•
Bluetooth radio with USB port	•	•
Sun shield, front, roof & rear	•	•
Master ignition key	•	•
Multi function switch on LH Joystick	•	•
Digging equipment		
Attachment points for extra hydraulics	•	•
Centralised lubrication point for arm and bucket	•	•

Equipment

OPTIONAL EQUIPMENT

	EW150E	EW170E
Engine		
Diesel coolant heater with digital timer	•	•
Block heater, 240 V	•	•
Water separator with heater	•	•
Dust net	•	•
Reversible fan	•	•
Air inlet turbo precleaning system	•	•
Micro- mesh and sealing for engine compartment	•	•
Tropical cooling	•	•
Waste package	•	•
Electric / Electronic control system		
Remote controlled welcome light	•	•
Joystick steering (Comfort Drive Control)	•	•
Multi-channel electric centre passage	•	•
Joystick Controlled Support (blade / outrigger function on LH joystick)	•	•
Travel alarm	•	•
Extra work lights: (LED or halogen)	•	•
- Back of cab 1 and counterweight 1	•	•
- Boom-mounted 2	•	•
- Cab front 2	•	•
- LED cab light next to side camera	•	•
- Extra LED lights on arm and Cab (4)	•	•
Cruise control	•	•
Anti-theft system	•	•
Tilting and rotating attachment preparation	•	•
Rotating beacon on cab and counterweight	•	•
Superstructure		
License plate preparation	•	•
Undercarriage		
Trailer Towing system	•	•
Twin tires 10.00 - 20 / 11.00 - 20	•	•
Single tires 18R - 19.5 / 620/40-22.5	•	•
Solid rubber tires 10.00-20/11.00-20	•	•
Stone protection rings	•	•
Rear bolted parallel dozer blade	•	•
Rear welded radial dozer blade	•	•
Front bolted parallel dozer blade and rear outriggers	•	•
Front welded radial dozer blade and rear outriggers	•	•
Grab holder	•	•
Mudguards, front/rear	•	•
Tool box, left hand side/right hand side	•	•
Drawer type Toolbox	•	•
Travel speed 20 km/h (12.4 mi/h), 30 km/h (18.6 mi/h), 35 km/h (21.7 mi/h)	•	•
Wide axle 2.75 m (9'0")	•	•
Automatic digging brake	•	•
Cruise control	•	•
Hydraulic system		
Holding valves on bucket	•	•
Boom float function	•	•
Boom suspension system	•	•
Hydraulic oil, biodegradable ISO VG 32	•	•
Hydraulic oil, biodegradable ISO VG 46	•	•
Hydraulic long life oil ISO VG 32	•	•
Hydraulic long life oil ISO VG 68	•	•
Hydraulic equipment for:		
- Hammer & shears	•	•
- Slope bucket/rotator	•	•
- Grab/clam shell	•	•
- Quick fit	•	•
- Flow control	•	•
- Flow & pressure control	•	•

OPTIONAL EQUIPMENT

	EW150E	EW170E
Cab and interior		
Volvo Care Cab with openable PC roof hatch / ROPS	•	•
Proportional control joystick	•	•
L8 joystick	•	•
Hydraulic proportional pedal for attachment control	•	•
Falling object guard (FOG)	•	•
Cab mounted falling object protective structures (FOPS)	•	•
Rain shield, front	•	•
Second generation Steelwrist tiltrotator preparation	•	•
Sunlight protection, roof hatch (steel)	•	•
Anti-vandalism kit	•	•
Lower wiper	•	•
Safety net for front window	•	•
Volvo Smart View = a 360° camera system with 3 cameras	•	•
Ashtray	•	•
Lighter	•	•
Mechanical Fabric seat, with/without heater	•	•
Airsuspension seat with heater and X isolator	•	•
Luxury operator seat with aico and wide armrest	•	•
Digging equipment		
4.5 m (14'9") mono boom, 4.7 m (15'5") 2-piece boom	•	•
Dipper arms: 2.0 m (6'7"), 2.45 m (8'0"), 2.6 m (8'6"), 3.1 m (10'2")	•	•
5.2 m (17'1") 2-piece offset boom, 5.1 m (16'9") 2-piece boom	•	•
Grab arm: 2.95 m (9'8")	•	•
Hydraulic quick fit		
S60 system	•	•
Universal system	•	•
Service		
Wheel chocks	•	•
Tool kit, daily maintenance	•	•
Automatic Greasing System	•	•
Attachments		
Buckets, direct fit and quick couplers	•	•
Lifting eye	•	•
Steelwrist® tiltrotator	•	•

SELECTION OF VOLVO OPTIONAL EQUIPMENT

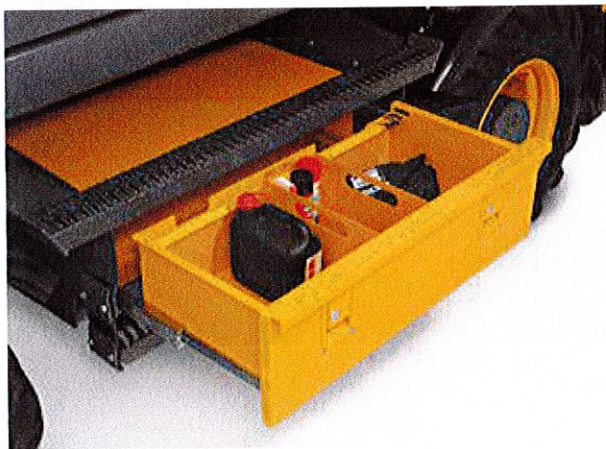
Trailer hitch



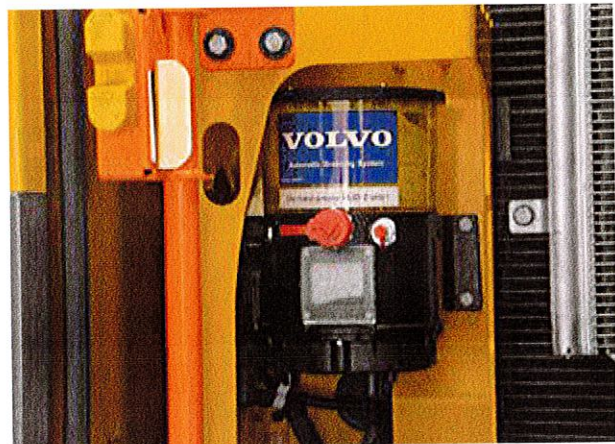
Tire choice



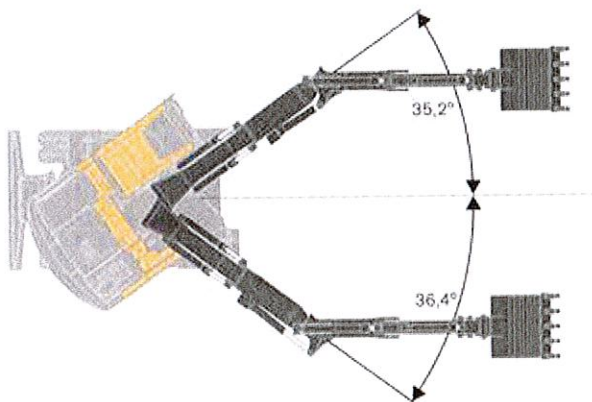
Drawer type tool box



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

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If this function is activated, a symbol in the IC (Instrument Cluster) and an alarm will be generated if the "overload signal" is detected.

- First event of overloading: The pop-up message and the warning indicator will be displayed and a warning alarm sounds. The pop-up message will disappear only when the ESC button is pressed.
- When the event occurs again when operating the machine: A warning alarm sounds and the indicator is shown. When reducing the load, the alarm and indicator will turn off.

5 Travel alarm stop button (optional equipment)

The optional "Travel alarm" function is activated automatically whenever the ignition switch is on and the travel pedal is pressed.

It is used to warn people in the surrounding area when the machine is moving.

Depending on the parameter setting, the travel alarm stop button is used to deactivate the "Travel alarm" function directly until the next machine start or to limit it to 10 seconds only each time the travel pedal is pressed.

6 ECO button

ECO function is a mode for fuel economy when working with the machine.

In the ECO mode the pump control works for fuel economy. The button is alight and an ECO symbol is shown on the IC (Instrument Cluster) when activated.

Press the button to deactivate the function and the button light and symbol will turn off.

NOTE!

When the ignition switch is on, ECO mode is always activated automatically.

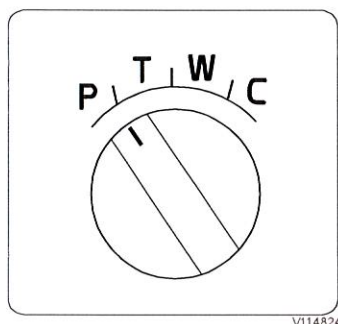
14. Mode selector control

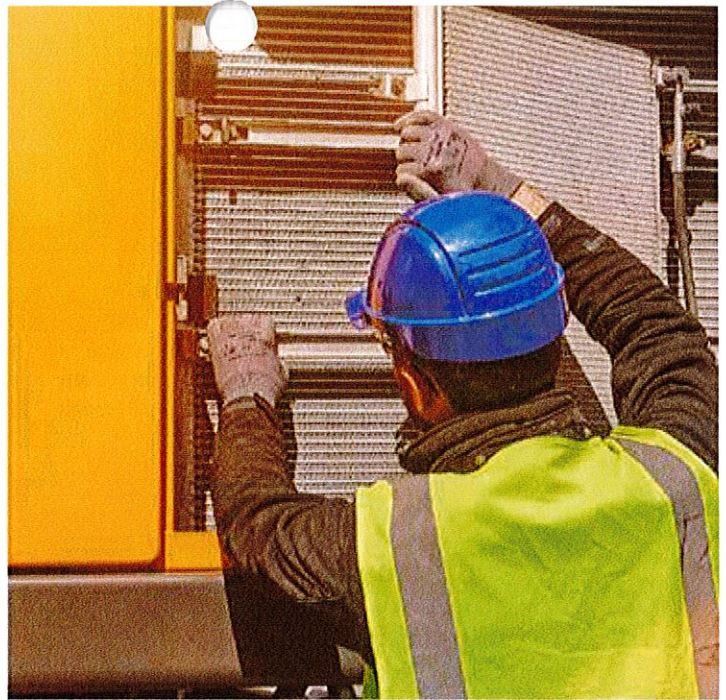
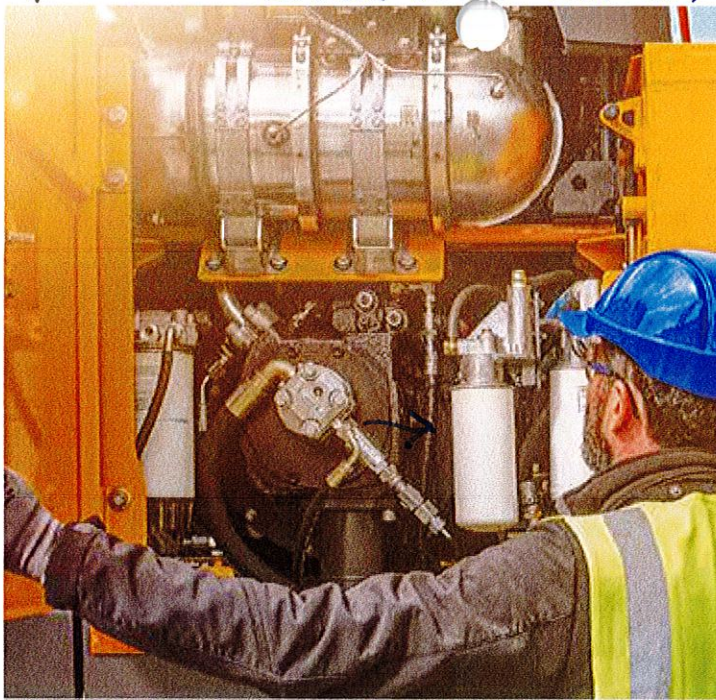
P = parking mode (parking brake and pivot axle locking are applied).

T = travel mode (public roads).

W = work mode (operating), gives Power Boost pressure during travelling.

C = customer mode (own pump flow settings).





SUPERIOR SERVICEABILITY

It's easy to keep your machines up and running with simple serviceability. Find greasing points grouped together and filters placed behind wide-opening engine doors, to provide ground-level access to daily service checkpoints. Meanwhile, the pivoting AC condenser is fixed with two flexible latches, improving access to the mesh and radiators for cleaning, increasing component life.

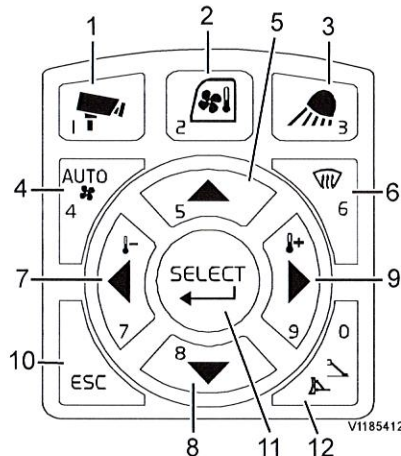
check message for quick coupler locking confirmation will appear in the IC (Instrument Cluster) and the buzzer sound will continue.

NOTE!

When the attachment is correctly locked in the attachment quick coupler, this has to be confirmed by pressing the upper end of the attachment quick coupler confirmation switch (position 8) on the left instrument panel, see page 35.

See page 223 for the complete procedure of the attachment quick coupler operation.

12. IC (Instrument Cluster) control keypad



- 1 Camera button
- 2 HVAC control button
- 3 Work lights control button
- 4 HVAC auto-mode select button
- 5 Arrow up button
- 6 Defroster select button
- 7 Arrow left button
- 8 Arrow down button
- 9 Arrow right button
- 10 ESC button
- 11 Select button
- 12 Stabiliser control button

1 Camera button

This button is used to control the camera screen in the IC (Instrument Cluster).

A short press on the camera button shows the camera view with the gauges on top of the screen.

A long press on the camera button will bring up the camera configuration bar.

For detailed information about the camera control, see page 128.

2 HVAC control button

This button is used to control the HVAC system.

For detailed information about this climate control system, see page 117.

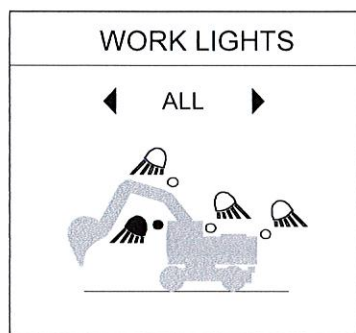
3 Work lights control button

This button is used to control the work lights on the boom, counterweight, cab front and cab rear.

A short press on the work lights button switches on/off the work lights with the latest configuration.

If one of the work lights is activated, this button is illuminated.

Reference work, Road Lights



Work light control

Work lights menu

A long press on the work lights button opens the work lights menu on the IC (Instrument Cluster).

Press the arrow right or arrow left button to select the work lights on in clockwise / counter-clockwise order.

Press SELECT to turn the selected working light on/off. If the light is on the icon is yellow.

The selection menu can be closed by pressing ESC on the keypad.

The position where you escape the menu is saved.

4 HVAC auto-mode select button

This button is used to control the HVAC system.

See page 117.

5 Arrow up button

Press this button to scroll between items and adjust each segment on the screen.

6 Defroster select button

This button is used to activate the defroster.

See page 117.

7 Arrow left button

Press this button to move the cursor to the left. Also press the button in order to decrease values.

8 Arrow down button

Press this button to scroll between items and adjust each segment on the screen.

9 Arrow right button

Press this button to move the cursor to the right. Also press the button in order to increase values.

10 ESC button

Press this button to go back to the previous screen or to cancel without saving.

The ESC button is also used to turn off the warning light and sound.

11 Select button

Press this button to confirm the item or setup that the user selects.

12 Stabiliser control button

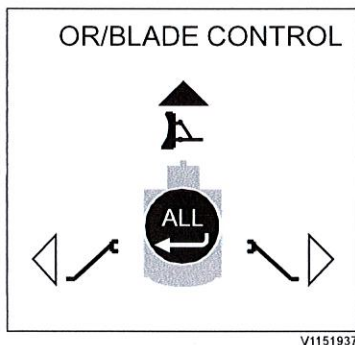
This button is used to select the stabiliser (blade or stabiliser legs, depending on machine configuration) which the operator wants to control with the additional hydraulic lever (position 3 on the left instrument panel) or the optional joystick controlled support function (button 5 on the left control lever), see 35.

A press on the stabiliser control button on the IC control keypad opens the stabiliser control menu in the IC (Instrument Cluster).

Use the arrow buttons to choose the appropriate symbol for blade or stabiliser legs and press SELECT to activate/deactivate the control.

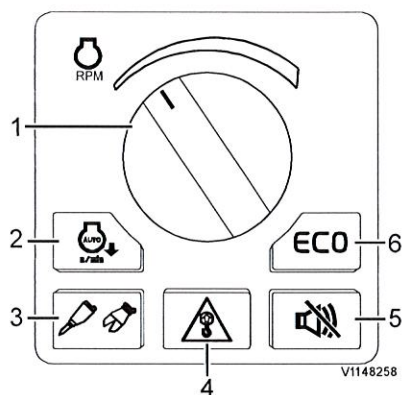
Press ESC to save and close the menu in the IC (Instrument Cluster).

Reference outrigger control



VI151937

Stabiliser control



- 1 Engine RPM control
- 2 Auto idle button
- 3 Hammer/Shear button
- 4 Overload warning button
- 5 Travel alarm stop button (optional equipment)
- 6 ECO button

13. Machine control keypad

1 Engine RPM control

This control is used to change the engine speed.

The engine speeds in some positions are different in ECO mode.

- Increase the engine speed by turning the control clockwise.
- Reduce the engine speed by control counter-clockwise.

2 Auto idle button

The Auto idle button activates or deactivates "Auto idle" function.

The engine speed will be reduced automatically to idle in order to reduce fuel consumption if any of control levers, pedals or engine speed control switch are not operated for 5 seconds. If any one of the above is operated, the engine speed returns to the speed set with the engine speed control switch.

3 Hammer/Shear button

This button is used to activate the hammer/shear function. For further description of the hammer/shear operation see page 241.

4 Overload warning button

The overload warning button activates or deactivates the "Overload warning" function.



Volvo Construction Equipment North America
Warranty – Disclaimers – Limitations
Limited Warranty for Governmental / Municipalities

Volvo Construction Equipment North America ("Volvo CE") hereby extends to its authorized dealers ("Dealer") and the Dealer's Governmental / Municipalities 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, whichever first occurs
- Volvo articulated haulers: 12 months/2500 hours, whichever first occurs
- Volvo hydraulic excavators: 12 months/2500 hours, whichever first occurs
- Volvo motor graders: 12 months/2500 hours, whichever first occurs
- Volvo compactors: 12 months/1500 hours, whichever first occurs
- 24 months unlimited hours on DD90 and larger compactors
- Volvo pavers: 12 months/1500 hours, whichever first occurs
- 24 months unlimited hours on 6000 / 7000 series pavers
- Volvo milling: 12 months/1500 hours, whichever first occurs
- Volvo compact wheel loaders (up to 100 net hp.): 12 months/unlimited hours
- Volvo skid steer loaders: 12 months/unlimited hours; Lifetime arm for one-sided
- Volvo compact hydraulic excavators (less than 11 metric tons): 12 months/unlimited hours
- Volvo backhoe loaders: 12 months/unlimited hours
- Volvo engines: 12 months/2500 hours, whichever first occurs
- Volvo parts: 6 months/1500 hours, whichever first occurs
- Volvo remanufactured components: 12 months/2500 hours, whichever first occurs
- Volvo Attachments: 12 months

The Warranty Period commences immediately following the delivery of said Product to the Buyer who first puts said Product into use. 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.

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: 475502

**E-VERIFY
CORPORATE COMPANY**

**If you have any questions, contact E-Verify at
888-464-4218.**

**INFORMATION REQUIRED
FOR E-VERIFY**

Information relating to your Company:

Company Name: Cowin Equipment Company Inc

Company Facility Address: 2238 Pinson Valley Parkway
Birmingham, AL 35217

County or Parish: JEFFERSON

Information relating to the Corporate Administrator(s) for your Company on policy questions or operational problems:

Name:	George Tickle		
Telephone Number:	(205) 488 - 3950	Fax Number:	(205) 841 - 2639
E-mail Address:	gtickle@cowin.com		
Name:	Tracy Womack		
Telephone Number:	(205) 488 - 3959	Fax Number:	(205) 488 - 3164
E-mail Address:	twomack@cowin.com		



Company ID Number: 505216

**THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION
MEMORANDUM OF UNDERSTANDING**

ARTICLE I

PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Department of Homeland Security (DHS) and Cowin Equipment Co Inc (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). This MOU explains certain features of the E-Verify program and enumerates specific responsibilities of DHS, the Social Security Administration (SSA), and the Employer. E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of the Employment Eligibility Verification Form (Form I-9). For covered government contractors, E-Verify is used to verify the employment eligibility of all newly hired employees and all existing employees assigned to Federal contracts or to verify the entire workforce if the contractor so chooses.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). Authority for use of the E-Verify program by Federal contractors and subcontractors covered by the terms of Subpart 22.18, "Employment Eligibility Verification", of the Federal Acquisition Regulation (FAR) (hereinafter referred to in this MOU as a "Federal contractor with the FAR E-Verify clause") to verify the employment eligibility of certain employees working on Federal contracts is also found in Subpart 22.18 and in Executive Order 12989, as amended.

ARTICLE II

FUNCTIONS TO BE PERFORMED

A. RESPONSIBILITIES OF SSA

1. SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all employees verified under this MOU and the employment authorization of U.S. citizens.
2. SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.
3. SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by SSA as governed



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
Electronically Signed	02/15/2012
Signature	Date

Department of Homeland Security – Verification Division

USCIS Verification Division

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

Information Required for the E-Verify Program

Information relating to your Company:

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