

Volvo Excavators 18.2-19.3 t 115 kW

EWR170

Volvo Construction Equipment

EWR170

The best 17-tonne wheeled excavator on the market just got better with the arrival of the new generation EWR170 Volvo Wheeled Excavator.



The ultimate in short swing performance

Featuring the shortest rear swing radius in its class, the best 17-tonne wheeled excavator on the market just got better with the arrival of the new generation EWR170 Volvo Wheeled Excavator. The EWR170 is packed with new and improved features – including increased reach, increased lifting capacity and a reduction in front swing radius by more than 0.5 m – to enhance the productivity, efficiency and profitability of your operation. This machine is the perfect choice when working in urban environments and other confined spaces – delivering the highest levels of manoeuvrability, performance and uptime whatever the task at hand.



Best in class performance

- Increased lifting capacity over front of the machine
- Newly designed longer 2-piece boom for increased reach
- Shortest rear swing radius in its class
- Front swing radius reduced by more than 0.5 m
- 115 kW engine
- 10% more swing torque
- Optional 4-wheel steering



Versatility

- Choice of 2.0 m, 2.5 m and 3.1 m arm lengths
- Optional 2.75 m wide axle
- Wide range of Volvo Attachments
- X1 and X3 auxiliary lines have been increased in size for less pressure losses
- X3 flow has also been increased from 70 to 120 litres/minute
- A third auxiliary line (X4) is available as an option



Efficient performance

- Advanced engine technology and intelligent hydraulics
- Auto-idle and automatic engine shutdown
- Advanced electro-hydraulic load sensing system



Designed for uptime

- Robust frame and high-quality components
- Grouped greasing points
- Ground-level access to essential service areas
- Optional hydraulic oil quick fill
- Optional extra fuel tank in the undercarriage
- Lockout/Tagout
- CareTrack telematics



The ultimate operator environment

- New operator interface with all machine information displayed in single 12.8” touchscreen
- Superior visibility
- Low noise levels
- Outstanding storage options, wireless phone charging, USB connections
- Automatic in-cab lights
- Range of options including air compressor for cleaning, and right-hand sunshade
- Choice of 3 ergonomic joysticks
- Customisable settings
- Different seat suppliers with 3-point seatbelt as an option



Optimized for safety

- Comfort Cabin Stairs (Volvo patented)
- Optional Volvo Smart View with HD360-degree real-time view
- LED work lights
- Improved, newly designed anchor points for transportation

Comfort cabin stairs

The Volvo patented electronically retractable ladder swings down from a recess in the side of the machine to provide safe and easy entry and exit to cab. For additional safety, the machine cannot swing or move while the ladder is in the down position.

Lift more, reach further

The already renowned performance of the EWR170 is taken to a new level thanks to an increased lifting capacity over the front of the machine, made possible by the larger diameter of the lift cylinders. Combine this with a newly designed longer 2-piece boom which delivers an increased reach, and the EWR170 is ready to deliver top results.

Industry renowned fuel efficiency

The Volvo EWR170 is built for efficiency, featuring advanced engine technology and intelligent hydraulics that reduce fuel consumption while maintaining top performance. Features including auto-idle and automatic engine shutdown, and efficient power modes combine to further enhance efficiency in every task. An optional extra fuel tank in the undercarriage supports a longer working range between refills for increased uptime.

The ultimate operator environment

Every detail of the Volvo EWR170 cab has been redesigned with operator comfort and convenience in mind, with superior visibility, low noise levels and ergonomic controls ensuring operators stay comfortable and focused throughout the workday. Combine this with easy-to-use joystick controls, outstanding storage options, wireless phone charging, USB connections, automatic in-cab lights and a range of options such as an air compressor for cleaning, and right-hand sunshade. This is truly an operator environment like no other.




VOLVO
EWR170
VOLVO

Volvo EWR170 in detail

Engine

EU Stage V / EPA Tier 4f 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	Volvo D4J
Max. power at	r/min	2 000
Net (ISO9249/SAEJ1349)	kW	112
	hp	152
Gross (ISO 14396/SAE J1995)	kW	115
	hp	156
Max. torque	Nm	618
at engine speed	r/min	1 500
No. of cylinders		4
Displacement	l	4.04
Bore	mm	101
Stroke	mm	126

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 / 130
Alternator rating	W	3 360

Undercarriage and structures

Drive train: A variable axle piston motor in combination with a power shift gearbox supplies 3 speeds. The gearbox distributes than the energy via propeller shafts to the axles.
Bolted undercarriage with parallel blade and outriggers in different combinations
Wheels: Alternative single and twin wheels available.
Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.

Oscillation	± °	9
with mudguards	± °	6
Twin wheels	type	10 - 20
Tractive force (net)	kN	111
Travel speed, on road	km/h	20 / 30 / 35
Travel speed, off road	km/h	8.5
Travel speed, creep	km/h	3
Min. turning radius	m	6.4 with 2WS/ 4.5 with 4WS*

*with Mitas 10" twin tyres, depending on tyres and lower frame configuration

Cab

Redesigned Volvo Cab with operator protective structure,with new seats and new large storage space below the consoles and new interior lightning . Integrated wireless phone charger and new storage spaces . Extra Cooling box behind the operator..
Audio system with remote control and Bluetooth system for hands free phoning. Independently adjustable joystick consoles with 2 type of arm rests fixed to the console .The unique 12.8" touchscreen is attached to the righthand console for optimum view and takes away a lot of switches from the consoles . The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels.
Excellent all-round visibility provided by maximized cab class, transparent roof hatch, 2-piece sliding door window . 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.

Sound Level

Sound pressure level in cab according to ISO 6396		
L_{pA}	dB	71
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
L_{WA}	dB	101

Hydraulic System

The new electro-hydraulic system with closed-centre load sensing Main Control Valve with pressure compensated valves and the electronic controlled pump provide superior controllabilty and new adjustment possibilities like speed and priority settings. 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.
Power Boost: All digging and lifting forces are increased.

Main pump (type low noise axial piston pump)		
Max. flow	l/min	290
Brake + steering pump (type low noise gear pump)		
Max. flow	l/min	46
Attachment circuit		
Max. flow	l/min	240
Max. pressure		
Implement	MPa	34 / 37.5
Travel system	MPa	37.5
Pilot system	MPa	3.5

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.

Swing system

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

Max. slew speed	r/min	8
Max. slew torque	kNm	43

Total Machine Weights

Machine with 5.21 m 2-piece boom, 2.5 m dipper arm, quickcoupler S60, Mitas 10" twin tyres, 500 kg /700 l bucket.

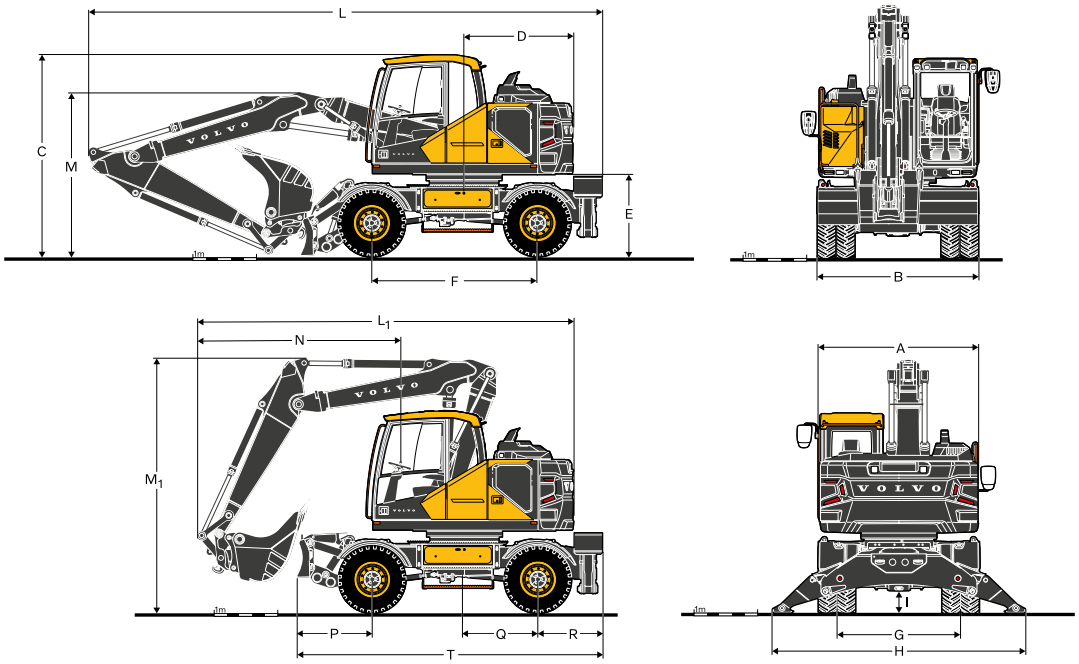
With bolted dozer blade front and outriggers rear	kg	19 300
With bolted dozer blade rear only	kg	18 200

Service Refill

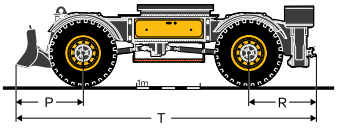
Fuel tank	l	220
DEF/AdBlue® tank	l	25
Hydraulic system, total	l	230
Hydraulic tank	l	96
Engine oil	l	16
Engine coolant	l	16
Transmission	l	2.5
Axle differential:		
Front axle	l	9.5
Rear axle	l	12.5
Final drive	l	4 x 2.5

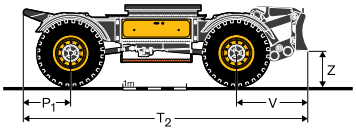


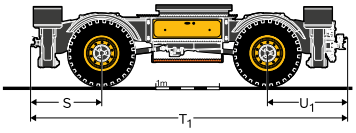
Specifications

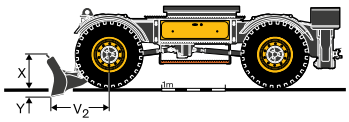


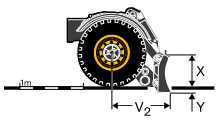
DIMENSIONS			EWR170F		
Description		Unit	2-piece boom		
		m	5.2		
A	Overall width of superstructure	mm	2 520		
B	Overall width	mm	2 550		
C	Overall height of cab	mm	3 150		
D	Tail slew radius	mm	1 790		
E	Counterweight clearance	mm	1 270		
F	Wheel base	mm	2 600		
G	Tread	mm	1 940		
H	Outrigger width (front or rear)	mm	3 980		
I	Min. ground clearance	mm	350		
Description		Unit	2-piece boom		
		m	5.2		
			Arm		
		m	2.0	2.5	3.1
L	Overall length	mm	8 470	8 470	8 470
M	Overall height of boom	mm	2 470	2 650	2 970
L_1	Overall length	mm	6 400	6 710	6 630
M_1	Overall height of boom	mm	4 000	4 000	4 000
N	Front overhang	mm	3 170	3 480	3 400







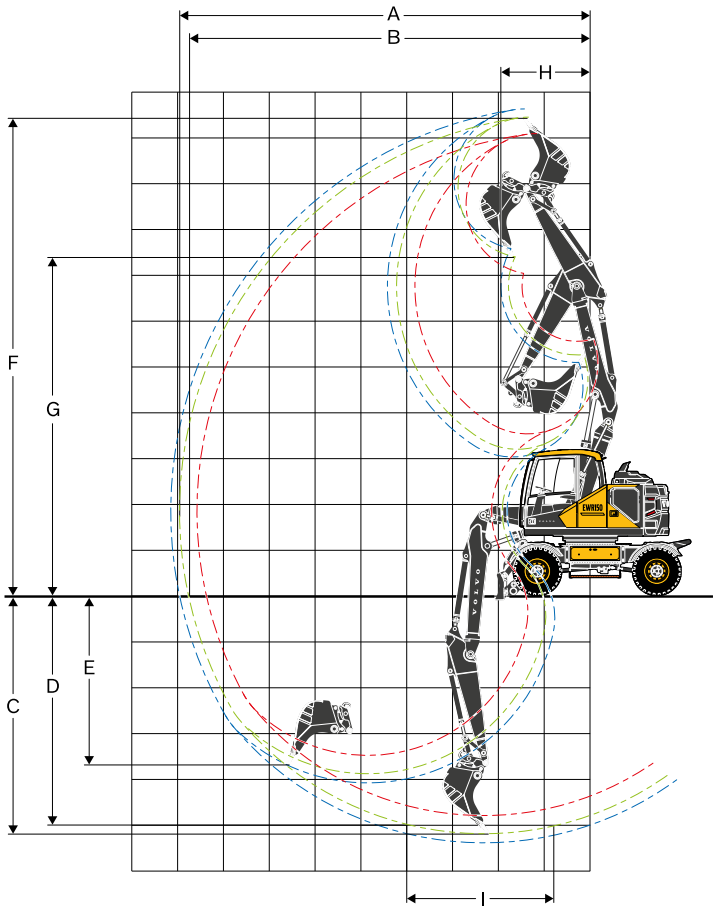




DIMENSIONS

Description	Unit	Undercarriage dimensions
P	mm	1 180
P_1	mm	750
Q	mm	1 150
R	mm	1 060
S	mm	1 110
U	mm	1 060
U_1	mm	1 250
T_1	mm	4 970
T	mm	4 840
T_2	mm	4 470
V	mm	1 120
V_2	mm	920
X	mm	460
Y	mm	140
Z	mm	530

Specifications



WORKING RANGES WITH DIRECT FIT BUCKET					
			EWR170F 5.2 m 2-piece boom		
		Unit	Arm		
		m	2.0	2.5	3.1
A	Max. digging reach	mm	8 920	9 390	9 970
B	Max. digging reach on ground	mm	8 730	9 210	9 800
C	Max. digging depth	mm	5 140	5 640	6 230
D	Max. digging depth (I = 2 440 mm level)	mm	5 030	5 530	6 140
E	Max. vertical wall digging depth	mm	3 800	4 380	4 970
F	Max. cutting height	mm	10 400	10 850	11 400
G	Max. dumping height	mm	7 270	7 730	8 280
H	Min. front slew radius	mm	1 720	2 000	2 330
DIGGING FORCES WITH DIRECT FIT BUCKET					
Breakout force (bucket)	(ISO)	kN	126*	126*	126*
Tearout force	(ISO)	kN	99*	85*	73*
* with powerboost					
Max. recommended sizes for direct fit buckets					
GP-Bucket (1.8 t/m³)		l	830	750	660
Max. recommended sizes for quick fit buckets					
S6/S60 QF GP-Bucket (1,8 t/m³)		l	770	690	600
S1 QF GP-Bucket (1,8 t/m³)		l	700	630	550

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.

*with Power boost

LIFTING CAPACITY EWR170F - Bolted undercarriage

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

	Lifting point	Reach from machine centre (u = support up/d = support down)																				
		3.0 m				4.5 m				6.0 m				7.0 m				Max.				
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.
	m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m
2P Boom: 5.21 m Arm: 2.0 m Parallel blade front/ outrigger rear	7.5	8.4*	8.4*	8.4*	8.4*	-	-	-	-	-	-	-	-	-	-	-	-	4.6	7.2*	7.2*	7.2*	4.5
	6	8.0*	8.0*	8.0*	8.0*	4.6	6.9*	6.9*	6.9*	-	-	-	-	-	-	-	-	2.9	5.0	4.6	6.1*	6.0
	4.5	8.1	10.9*	10.9*	10.9*	4.4	7.6*	7.1	7.6*	2.8	4.9	4.5	6.2*	-	-	-	-	2.3	4.	3.7	5.8*	6.8
	3	-	-	-	-	4.1	7.4	6.7	8.7*	2.7	4.7	4.4	6.5*	-	-	-	-	2.0	3.6	3.3	5.5*	7.2
	1.5	-	-	-	-	3.8	7.0	6.4	9.2*	2.6	4.6	4.2	6.7*	-	-	-	-	2.0	3.5	3.2	5.3*	7.3
	0	-	-	-	-	3.7	6.9	6.3	8.8*	2.5	4.5	4.1	6.5*	-	-	-	-	2.0	3.6	3.3	5.0*	7.1
	-1.5	-	-	-	-	3.7	6.9	6.3	7.4*	2.5	4.5	4.1	5.4*	-	-	-	-	2.3	4.1	3.7	4.5*	6.5
2P Boom: 5.21 m Arm: 2.5 m Parallel blade front/ outrigger rear	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3*	8.3*	8.3*	8.3*	2.5
	7.5	7.1*	7.1*	7.1*	7.1*	4.7	6.5*	6.5*	6.5*	-	-	-	-	-	-	-	-	3.7	5.4*	5.4*	5.4*	5.2
	6	6.0*	6.0*	6.0*	6.0*	4.7	6.4*	6.4*	6.4*	3.0	5.	4.6	5.7*	-	-	-	-	2.5	4.3	4.0	4.8*	6.5
	4.5	8.1*	8.1*	8.1*	8.1*	4.5	7.1*	7.1*	7.1*	2.9	4.9	4.5	5.9*	-	-	-	-	2.1	3.6	3.3	4.6*	7.3
	3	-	-	-	-	4.1	7.5	6.8	8.3*	2.7	4.8	4.4	6.3*	1.9	3.4	3.1	5.2*	1.9	3.2	3.0	4.6*	7.7
	1.5	-	-	-	-	3.8	7.1	6.4	9.1*	2.6	4.6	4.2	6.7*	1.9	3.3	3.1	5.2*	1.8	3.1	2.9	4.8*	7.8
	0	-	-	-	-	3.7	6.9	6.3	9.0*	2.5	4.5	4.1	6.6*	1.9	3.3	3.0	4.9*	1.8	3.2	3.0	4.7*	7.6
	-1.5	-	-	-	-	3.6	6.9	6.2	8.0*	2.5	4.5	4.1	5.9*	-	-	-	-	2.0	3.6	3.3	4.4*	7.1
2P Boom: 5.21 m Arm: 3.1 m Parallel blade front/ outrigger rear	9	6.8*	6.8*	6.8*	6.8*	-	-	-	-	-	-	-	-	-	-	-	-	5.4*	5.4*	5.4*	5.4*	4.0
	7.5	-	-	-	-	4.8	5.7	5.7	5.7*	3.	4.3*	4.3*	4.3*	-	-	-	-	2.9	4.1*	4.1*	4.1*	6.1
	6	-	-	-	-	4.8	5.3*	5.3*	5.3*	3.	5.1	4.7	5.2*	-	-	-	-	2.1	3.7*	3.4	3.7*	7.2
	4.5	4.8*	4.8*	4.8*	4.8*	4.6	5.8*	5.8*	5.8*	2.9	5.0	4.6	5.5*	2.0	3.5	3.2	4.9*	1.8	3.1	2.9	3.5*	7.9
	3	-	-	-	-	4.2	7.6	6.9	7.7*	2.8	4.8	4.4	6.0*	1.9	3.4	3.1	5.0*	1.6	2.9	2.6	3.6*	8.3
	1.5	-	-	-	-	3.9	7.1	6.5	8.8*	2.6	4.6	4.2	6.5*	1.9	3.3	3.0	5.2*	1.6	2.8	2.6	3.7*	8.4
	0	5.8*	5.8*	5.8*	5.8*	3.6	6.9	6.2	9.1*	2.5	4.5	4.1	6.6*	1.8	3.2	3.0	5.1*	1.6	2.9	2.6	4.0*	8.2
	-1.5	6.5	9.6*	9.6*	9.6*	3.6	6.8	6.2	8.4*	2.4	4.4	4.0	6.2*	1.8	3.2	3.0	4.4*	1.7	3.1	2.9	4.1*	7.7
	-3	-	-	-	-	3.6	6.8*	6.2	6.8*	2.4	4.4	4.1	4.9*	-	-	-	-	2.4	4.3	4.0	4.7*	6.1

LIFTING CAPACITY EWR170F - Bolted undercarriage

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

	Lifting point	Reach from machine centre (u = support up/d = support down)																				
		3.0 m				4.5 m				6.0 m				7.0 m				Max.				
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.
	m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m
2P Boom: 5.21 m Arm: 2.0 m Outrigger front/ Parallel blade rear	7.5	8.4*	8.4*	8.4*	8.4*	-	-	-	-	-	-	-	-	-	-	-	-	4.6	7.2*	7.2	7.2*	4.5
	6	8.0*	8.0*	8.0*	8.0*	4.6	6.9*	6.9*	6.9*	-	-	-	-	-	-	-	-	2.9	4.8	4.4	6.1*	6.0
	4.5	8.1	10.9*	10.9*	10.9*	4.4	7.5	6.8	7.6*	2.8	4.7	4.3	6.2*	-	-	-	-	2.3	3.9	3.5	5.8*	6.8
	3	-	-	-	-	4.1	7.1	6.5	8.7*	2.7	4.6	4.2	6.5*	-	-	-	-	2.0	3.5	3.1	5.5*	7.2
	1.5	-	-	-	-	3.8	6.8	6.1	9.2*	2.6	4.4	4.0	6.7*	-	-	-	-	2.0	3.3	3.0	5.3*	7.3
	0	-	-	-	-	3.7	6.6	6.0	8.8*	2.5	4.4	4.0	6.5*	-	-	-	-	2.0	3.5	3.1	5.0*	7.1
	-1.5	-	-	-	-	3.7	6.7	6.0	7.4*	2.5	4.4	4.0	5.4*	-	-	-	-	2.3	3.9	3.6	4.5*	6.5
2P Boom: 5.21 m Arm: 2.5 m Outrigger front/ Parallel blade rear	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3*	8.3*	8.3*	8.3*	2.5
	7.5	7.1*	7.1*	7.1*	7.1*	4.7	6.5*	6.5*	6.5*	-	-	-	-	-	-	-	-	3.7	5.4*	5.4*	5.4*	5.2
	6	6.0*	6.0*	6.0*	6.0*	4.7	6.4*	6.4*	6.4*	3.0	4.9	4.4	5.7*	-	-	-	-	2.5	4.2	3.8	4.8*	6.5
	4.5	8.1*	8.1*	8.1*	8.1*	4.5	7.1*	7.0	7.1*	2.9	4.8	4.4	5.9*	-	-	-	-	2.1	3.5	3.1	4.6*	7.3
	3	-	-	-	-	4.1	7.2	6.6	8.3*	2.7	4.6	4.2	6.3*	1.9	3.3	3.0	5.2*	1.9	3.1	2.8	4.6*	7.7
	1.5	-	-	-	-	3.8	6.8	6.2	9.1*	2.6	4.5	4.0	6.7*	1.9	3.2	2.9	5.2*	1.8	3.0	2.8	4.8*	7.8
	0	-	-	-	-	3.7	6.6	6.0	9.0*	2.5	4.3	3.9	6.6*	1.9	3.2	2.9	4.9*	1.8	3.1	2.8	4.7*	7.6
	-1.5	-	-	-	-	3.6	6.6	6.0	8.0*	2.5	4.3	3.9	5.9*	-	-	-	-	2.0	3.5	3.1	4.4*	7.1
2P Boom: 5.21 m Arm: 3.1 m Outrigger front/Parallel blade rear	9	6.8*	6.8*	6.8*	6.8*	-	-	-	-	-	-	-	-	-	-	-	-	5.4*	5.4*	5.4*	5.4*	4.0
	7.5	-	-	-	-	4.8	5.7	5.7	5.7	3.0	4.3*	4.3*	4.3*	-	-	-	-	2.9	4.1*	4.1*	4.1*	6.1
	6	-	-	-	-	4.8	5.3*	5.3*	5.3*	3.0	4.9	4.5	5.2*	-	-	-	-	2.1	3.6	3.3	3.7*	7.2
	4.5	4.8*	4.8*	4.8*	4.8*	4.6	5.8*	5.8*	5.8*	2.9	4.8	4.4	5.5*	2.0	3.3	3.0	4.9*	1.8	3.0	2.8	3.5*	7.9
	3	-	-	-	-	4.2	7.3	6.7	7.7*	2.8	4.6	4.2	6.0*	1.9	3.3	3.0	5.0*	1.6	2.8	2.5	3.6*	8.3
	1.5	-	-	-	-	3.9	6.9	6.2	8.8*	2.6	4.4	4.0	6.5*	1.9	3.2	2.9	5.2*	1.6	2.7	2.4	3.7*	8.4
	0	5.8*	5.8*	5.8*	5.8*	3.6	6.6	6.0	9.1*	2.5	4.3	3.9	6.6*	1.8	3.1	2.8	5.1*	1.6	2.8	2.5	4.0*	8.2
	-1.5	6.5	9.6*	9.6*	9.6*	3.6	6.5	5.9	8.4*	2.4	4.2	3.8	6.2*	1.8	3.1	2.8	4.4*	1.7	3.0	2.7	4.1*	7.7
	-3	-	-	-	-	3.6	6.6	5.9	6.8*	2.4	4.3	3.9	4.9*	-	-	-	-	2.4	4.2	3.8	4.7*	6.1

Specifications

LIFTING CAPACITY EWR170F - Bolted undercarriage

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

	Lifting point	Reach from machine centre (u = support up/d = support down)																				
		3.0 m				4.5 m				6.0 m				7.0 m				Max.				
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.
	m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m
2P Boom: 5.21 m Arm: 2.0 m Parallel blade rear	7.5	8.4*	8.4*	8.4*	8.4*	-	-	-	-	-	-	-	-	-	-	-	-	4.4	5.0	7.2*	7.2*	4.5
	6	8.0*	8.0*	8.0*	8.0*	4.4	5.0	6.9*	6.9*	-	-	-	-	-	-	-	-	2.8	3.1	4.5	6.1*	6.0
	4.5	7.7	9.	10.9*	10.9*	4.2	4.8	7.0	7.6*	2.7	3.1	4.5	6.2*	-	-	-	-	2.2	2.5	3.6	5.6	6.8
	3	-	-	-	-	3.8	4.4	6.7	8.7*	2.6	2.9	4.3	6.5*	-	-	-	-	1.9	2.2	3.2	5.0	7.2
	1.5	-	-	-	-	3.6	4.1	6.3	9.2*	2.4	2.8	4.2	6.6	-	-	-	-	1.8	2.1	3.1	4.8	7.3
	0	-	-	-	-	3.5	4.0	6.2	8.8*	2.4	2.7	4.1	6.5*	-	-	-	-	1.9	2.2	3.3	5.0*	7.1
	-1.5	-	-	-	-	3.5	4.0	6.2	7.4*	2.4	2.7	4.1	5.4*	-	-	-	-	2.1	2.5	3.7	4.5*	6.5
2P Boom: 5.21 m Arm: 2.5 m Parallel blade rear	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3*	8.3*	8.3*	8.3*	2.5
	7.5	7.1*	7.1*	7.1*	7.1*	4.5	5.1	6.5*	6.5*	-	-	-	-	-	-	-	-	3.5	3.9	5.4*	5.4*	5.2
	6	6.0*	6.0*	6.0*	6.0*	4.5	5.1	6.4*	6.4*	2.8	3.2	4.6	5.7*	-	-	-	-	2.4	2.7	3.9	4.8*	6.5
	4.5	8.1	8.1*	8.1*	8.1*	4.3	4.9	7.1*	7.1*	2.7	3.1	4.5	5.9*	-	-	-	-	1.9	2.2	3.3	4.6*	7.3
	3	-	-	-	-	3.9	4.5	6.8	8.3*	2.6	3.0	4.3	6.3*	1.8	2.1	3.1	4.7	1.7	2.0	2.9	4.5	7.7
	1.5	-	-	-	-	3.6	4.2	6.4	9.1*	2.4	2.8	4.2	6.6	1.8	2.0	3.0	4.7	1.7	1.9	2.9	4.4	7.8
	0	-	-	-	-	3.4	4.0	6.2	9.0*	2.3	2.7	4.1	6.5	1.7	2.0	3.0	4.6	1.7	2.0	2.9	4.5	7.6
	-1.5	-	-	-	-	3.4	4.0	6.2	8.0*	2.3	2.7	4.1	5.9*	-	-	-	-	1.9	2.2	3.3	4.4*	7.1
2P Boom: 5.21 m Arm: 3.1 m Parallel blade rear	9	6.8*	6.8*	6.8*	6.8*	-	-	-	-	-	-	-	-	-	-	-	-	5.3	5.4*	5.4*	5.4*	4.0
	7.5	-	-	-	-	4.6	5.2	5.7	5.7	2.8	3.2	4.3*	4.3*	-	-	-	-	2.7	3.1	4.1	4.1*	6.1
	6	-	-	-	-	4.6	5.2	5.3*	5.3*	2.9	3.2	4.6	5.2*	-	-	-	-	2.0	2.3	3.4	3.7*	7.2
	4.5	4.8*	4.8*	4.8*	4.8*	4.4	5.0	5.8*	5.8*	2.8	3.1	4.5	5.5*	1.9	2.2	3.2	4.8	1.7	1.9	2.9	3.5*	7.9
	3	-	-	-	-	4.0	4.6	6.9	7.7*	2.6	3.0	4.4	6.0*	1.8	2.1	3.1	4.7	1.5	1.7	2.6	3.6*	8.3
	1.5	-	-	-	-	3.6	4.2	6.4	8.8*	2.4	2.8	4.2	6.5*	1.7	2.	3.0	4.6	1.5	1.7	2.5	3.7*	8.4
	0	5.8*	5.8*	5.8*	5.8*	3.4	4.0	6.2	9.1*	2.3	2.7	4.0	6.5	1.7	1.9	2.9	4.6	1.5	1.7	2.6	4.0	8.2
	-1.5	6.1	7.2	9.6*	9.6*	3.3	3.9	6.1	8.4*	2.2	2.6	4.0	6.2*	1.7	1.9	2.9	4.4*	1.6	1.9	2.8	4.1*	7.7
	-3	-	-	-	-	3.4	3.9	6.1	6.8*	2.3	2.6	4.0	4.9*	-	-	-	-	2.2	2.6	3.9	4.7*	6.1

LIFTING CAPACITY EWR170F - Bolted undercarriage

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

	Lifting point	Reach from machine centre (u = support up/d = support down)																				
		3.0 m				4.5 m				6.0 m				7.0 m				Max.				
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.
	m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m
2P Boom: 5.21 m Arm: 2.0 m Parallel blade front / parallel blade rear	7.5	8.4*	8.4*	8.4*	8.4*	-	-	-	-	-	-	-	-	-	-	-	-	4.6	6.2	7.2*	7.2*	4.5
	6	8.0*	8.0*	8.0*	8.0*	4.6	6.2	6.9	6.9*	-	-	-	-	-	-	-	-	2.9	3.9	4.4	6.1*	6.0
	4.5	8.1	10.9*	10.9*	10.9*	4.4	6.0	6.9	7.6*	2.8	3.8	4.4	6.2*	-	-	-	-	2.3	3.1	3.5	5.8*	6.8
	3	-	-	-	-	4.0	5.6	6.5	8.7*	2.7	3.7	4.2	6.5*	-	-	-	-	2.0	2.8	3.2	5.5*	7.2
	1.5	-	-	-	-	3.7	5.3	6.2	9.2*	2.6	3.5	4.1	6.7*	-	-	-	-	1.9	2.7	3.1	5.3*	7.3
	0	-	-	-	-	3.6	5.2	6.1	8.8*	2.5	3.5	4.0	6.5*	-	-	-	-	2.0	2.8	3.2	5.0*	7.1
	-1.5	-	-	-	-	3.7	5.2	6.1	7.4*	2.5	3.5	4.0	5.4*	-	-	-	-	2.3	3.1	3.6	4.5*	6.5
2P Boom: 5.21 m Arm: 2.5 m Parallel blade front / parallel blade rear	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3*	8.3*	8.3*	8.3*	2.5
	7.5	7.1*	7.1*	7.1*	7.1*	4.7	6.3	6.5	6.5*	-	-	-	-	-	-	-	-	3.6	4.9	5.4*	5.4*	5.2
	6	6.0*	6.0*	6.0*	6.0*	4.7	6.3	6.4	6.4*	2.9	3.9	4.5	5.7*	-	-	-	-	2.5	3.4	3.9	4.8*	6.5
	4.5	8.1*	8.1*	8.1*	8.1*	4.4	6.1	7.0	7.1*	2.9	3.9	4.4	5.9*	-	-	-	-	2.0	2.8	3.2	4.6*	7.3
	3	-	-	-	-	4.1	5.7	6.6	8.3*	2.7	3.7	4.2	6.3*	1.9	2.6	3.0	5.2*	1.8	2.5	2.9	4.6*	7.7
	1.5	-	-	-	-	3.8	5.3	6.2	9.1*	2.6	3.6	4.1	6.7*	1.9	2.6	3.0	5.2*	1.8	2.4	2.8	4.8*	7.8
	0	-	-	-	-	3.6	5.2	6.1	9.0*	2.5	3.5	4.0	6.6*	1.8	2.5	2.9	4.9*	1.8	2.5	2.9	4.7*	7.6
	-1.5	-	-	-	-	3.6	5.1	6.0	8.0*	2.4	3.4	4.0	5.9*	-	-	-	-	2.0	2.8	3.2	4.4*	7.1
2P Boom: 5.21 m Arm: 3.1 m Parallel blade front / parallel blade rear	9	6.8*	6.8*	6.8*	6.8*	-	-	-	-	-	-	-	-	-	-	-	-	5.4*	5.4*	5.4*	5.4*	4.0
	7.5	-	-	-	-	4.8	5.7	5.7	5.7	2.9	3.9	4.3*	4.3*	-	-	-	-	2.9	3.9	4.1*	4.1*	6.1
	6	-	-	-	-	4.8	5.3*	5.3*	5.3*	3.0	4.0	4.5	5.2*	-	-	-	-	2.1	2.9	3.3	3.7*	7.2
	4.5	4.8*	4.8*	4.8*	4.8*	4.5	5.8*	5.8*	5.8*	2.9	3.9	4.4	5.5*	2.0	2.7	3.1	4.9*	1.8	2.4	2.8	3.5*	7.9
	3	-	-	-	-	4.2	5.8	6.7	7.7*	2.7	3.7	4.3	6.0*	1.9	2.6	3.0	5.0*	1.6	2.2	2.5	3.6*	8.3
	1.5	-	-	-	-	3.8	5.4	6.3	8.8*	2.6	3.5	4.1	6.5*	1.8	2.6	2.9	5.2*	1.5	2.2	2.5	3.7*	8.4
	0	5.8*	5.8*	5.8*	5.8*	3.6	5.1	6.0	9.1*	2.4	3.4	3.9	6.6*	1.8	2.5	2.9	5.1*	1.6	2.2	2.5	4.0*	8.2
	-1.5	6.4	9.6*	9.6*	9.6*	3.5	5.1	5.9	8.4*	2.4	3.4	3.9	6.2*	1.8	2.5	2.8	4.4*	1.7	2.4	2.8	4.1*	7.7
	-3	-	-	-	-	3.6	5.1	6.0	6.8*	2.4	3.4	3.9	4.9*	-	-	-	-	2.3	3.3	3.8	4.7*	6.1

Equipment

STANDARD EQUIPMENT
Engine
Turbocharged, 4 stroke Volvo diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage V emission requirements
Intake air pre-heater
Fuel filter and water separator
Fuel filler pump: 50 l/min with automatic shut-off
Aluminium core radiator
Electrical system
Contronics-computerized monitoring and diagnostic system
Master electrical disconnect switch
Adjustable automatic idling system
One-touch power boost
single 12.8" touch screen
Safety stop/start function
LED Headlights
Alternator,130 A
Batteries, 2 x 12 V/100 Ah
Start motor, 24 V/5.5 kW
CareTrack via GSM or satelite
Rear and Side view camera
Superstructure
LED Rear lights
Service walkway with anti-slip grating
Centralised lubricating point for slew bearing and boom
Undercarriage and structures
3 speeds (creep / offroad / road speed up to 35 km/h)
Oscillating front axle ± 9° without mudguards/ 6° with mudguards
2-circuit travel brakes
Maintenance-free propeller shafts
Hydraulic System
Load sensing hydraulic system
Cylinder cushioning
Cylinder contamination seals
Return filter of full flow type 3 000 h exchange interval
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
X1 Circuit (e.g. Hammer & shears)

STANDARD EQUIPMENT
Cab and interior
Volvo Care Cab with fixed roof hatch /ROPS
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
Cooling box
Sun shield,front, roof & rear
DAB Radio
Bluetooth connection
2 USB ports
Engine Start/Stop Button
Heater & air-conditioner, automatic
Hydraulic dampening cab mounts
Adjustable operator seat and joystick control console
Adjustable steering column
Hydraulic safety lock lever
Control joysticks different variants
Digging equipment
Attachment points for extra hydraulics
Centralised lubrication point for arm and bucket
5,21 m 2-piece boom
Dipper arms : 2.0 m, 2.5 m, 3.1 m
Service
Tool kit, daily maintenance
Automatic Greasing System
Wheel chocks
Attachments
Buckets, direct fit and for Quick Couplers:
General Purpose bucket (GP)
GPX bucket
Lifting eye
Tilt rotator Steelwrist

OPTIONAL EQUIPMENT

Engine
Diesel coolant heater with digital timer
Block heater, 240 V
Water separator with heater
Dust net
Reversible fan
Air inlet turbo precleaning system
Tropical cooling

Electrical system
Travel alarm
Rotating beacon
Extra work lights: LED
2 additional lights on the boom
2 additional lights on the cabin front
1 additional light on the arm
1 additional light on the LH side
1 additional light cab rear
Welcome home light option
Multi-channel electric centre passage
Anti-theft system
Tilting and rotating attachment preparation

Undercarriage and structures
Twin tires 10.00 – 20 / 11.00 – 20
Single tires 18R – 19.5 / 620/40-22.5
Single tires 650/45-22.5
Stone protection rings
Solid rubber tires 10.00-20/11.00-20
parallel dozer blade and outriggers at rear and front
License plate preparation
Grab holder
Mudguards, front/rear, plastic or metal
Tool box, left hand side/right hand side
Cruise control
Travel speed 20 km/h, 30 km/h, 35 km/h
Trailer Towing system
Automatic digging brake
Drawer type Toolbox
4 Wheel Steering
Hydraulic trailer brake
Double Acting Hydraulic

OPTIONAL EQUIPMENT

Hydraulic System
Boom float function
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
X3 circuit (e.g. Slope bucket/rotator)
X4 circuit (aux functions)
Flow & pressure control for X1/X3/X4
Boom suspension system

Cab and interior
Volvo Care Cab with openable PC roof hatch / ROPS
A9 joystick
L8 joystick
L8 simple joystick
Proportional control joystick
Falling object guard (FOG)
Cab mounted falling object protective structures (FOPS)
Rain shield, front
Smart Connect MiC 4.0
Volvo Smart View system
Safety net for front window
Lower wiper
Seat:
Premium seat with airsuspension, 3 step heat/Vent, 2-point seatbelt
Deluxe seat with airsuspension, 3 step heat/Vent, X-Isolator & elect lumbar support, 2-point seatbelt
Premium seat ISRI with airsuspension, heat, 3-point seatbelt
Deluxe seat ISRI with airsuspension, 3 step heat/Vent, X-Isolator & elect lumbar support, automatic weight adjustment, 3-point seatbelt
Deluxe Armrest
Standard Armrest
Comfort Cabin Stairs

Hydraulic quick fit
Full hydraulic Quick coupler (SQ)
S60 system
Universal system

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.