

V O L V O



Volvo Excavators 23.4-29.0 t / 51,590 - 64,000 lb 173 hp

ECR255

Volvo Construction Equipment

ECR255

Get more from your short swing radius excavator in the ECR255. More fuel efficiency, more lifting capacity and more operator comfort.



Outstanding visibility



- The newly designed cab significantly improves right hand, front and side visibility
- Optional one-piece windshield
- Large mirrors with electric heating
- Additional lighting on the cab, boom, and arm

A new level of performance



- 7% increase in lifting capacity
- Heavier counterweight
- Boom/Swing priority functions
- Auto travel boost
- Floating dozer blade

A new level in short swing performance

Get ready for a new standard in short swing radius excavator efficiency, performance and comfort in the ECR255. With 10% more fuel efficiency, 7% more lifting capacity and 20% more in-cab space compared to traditional short swing machines, count on the ECR255 to deliver the big performance and big results in short swing applications.



10% more fuel efficiency

- Advanced electro-hydraulic control system with main control valve (MCV)
- Redesigned main control valve for faster hydraulic movements and more efficient use of power
- New electric fan
- Engine pump optimization reduces engine speed to 1,600 rpm (1,800 rpm used for travel operation only when needed)
- Auto power boost
- Powerful and efficient Volvo engine
- New engine work modes
- Auto idling, automatic engine shutdown



Made for uptime

- 1,000-hour engine oil change interval
- 3,000-hour hydraulic oil change
- More synchronized service intervals (all 1,000-hour multiples)
- Grouped filters and lubrication points easily accessed thanks to new right hand service access to the upper platform
- Urea tank filling from the ground level
- HVAC main filter replaced from inside the cab
- Easier, cleaner oil and filter changes: quick drain port, shut off valve, optional ground level access oil sampling port
- CareTrack telematics



Dig Assist for faster, easier and safer digging operations

- Powered by the in-cab Volvo Co-Pilot
- Volvo Active Control for faster, more precise digging
- Boundary limits: Depth Limit, Height Limit, Swing Fence
- 2D/3D machine control, In-Field Design and On-Board Weighing



Unrivalled operator environment

- 20% more in-cab space
- 50% improved in-cab cooling performance
- Electric fans for less noise
- Two filter system for better air quality: pre filter and main filter
- Bluetooth connectivity, wireless phone charging and extensive storage
- Ergonomically designed footsteps and handrails for easy cab entrance/exit
- The tiltable left console provides more space to enter the cab
- Precision joystick system, ergonomic right-hand switch layout, customizable settings



Smart View with POC (People and Obstacle Classification)

- Combine 360° camera view with highly intelligent radar detection
- Differentiate between people and objects thanks to deep learning technology
- Enhanced real-time view of surroundings
- Automatic alerts if people or obstacles are detected

Industry leading service intervals

The ECR255 boasts some of the longest service intervals in the industry, with 1,000-hour engine oil, 3,000-hour hydraulic oil changes to mention a few. More synchronized service intervals (all 1,000-hour multiples) further increase uptime and reduce costs.

Unrivalled operator comfort

The ECR255 combines a short swing radius machine with conventional machine cab, resulting in an outstanding 20% more in-cab space compared to a traditional short swing radius cab. This is complemented by a host of features designed to boost operator comfort including 50% improved in-cab cooling performance, less noise, Bluetooth connectivity, wireless phone charging and extensive storage.



10% more fuel efficiency

The ECR255 boasts all the power of its equivalent Volvo crawler excavator along with a 10% improvement in fuel efficiency. The ECR255 takes fuel efficiency to a new level with the redesigned main control valve which enables faster hydraulic movements and more efficient use of power, boosting overall machine performance. Additional features such as new electric fan, engine pump optimisation, auto power boost, and many other intelligent functions, combine to result in lower fuel consumption and lower operating costs.

A new level of performance

Take short swing performance to the next level. The new machine design, including heavier counterweight, unlocks a new level of performance, most notably a 7% increase in lifting capacity. This is combined with the electro-hydraulic control system with redesigned main control valve and customized priority setting function, which enables fast cycle times and optimum efficiency out in the field. Additional functions such as auto power boost and auto travel boost further support productivity and enhance operator comfort.



Volvo ECR255 in detail

Engine

The latest generation, Volvo engine Tier4f emissions compliant diesel engine fully meets the demands of the latest, emissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, high pressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance.

- Air Filter: 3-stage with precleaner

- Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Brand	Volvo D6L
Max power at	rpm (rps)	1,800 (30)
Net, ISO 9249/SAE J1349	kW (hp)	128 (172)
	hp	174
Gross, ISO 14396/SAE J1995	kW (hp)	129 (173)
	hp	175
Max torque	Nm (lbf ft)	849 (626)
at engine speed	rpm (rps)	1,350 (22.5)
No. of cylinders		6
Displacement	lit (in³)	5.7 (348)
Bore	mm (in)	98 (3.86)
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. Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	140
Alternator	V/A	28/180
Start motor	V - kW	24 - 5.5

Undercarriage

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

Track shoe		2 x 49
Link pitch	mm (in)	190 (7.48)
		600 / 700 / 800 / 900 (24 / 28 / 32 / 36)
Shoe width, triple grouser	mm (in)	
Shoe width, triple grouser (HD)	mm (in)	600 (24)
Shoe width, double grouser	mm (in)	700 (28)
Shoe width, single grouser	mm (in)	600 (24)
Bottom rollers		2 x 8
Top rollers		2 x 2

Swing System

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and antirebound valve are standard.

Max. slew speed	rpm	12
Max. slew torque	kN/m (ft lbf)	83.1 (61,291)

Travel System

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

Max. drawbar pull	kN (lbf)	209 (46,985)
Max. travel speed (low)	km/h (mph)	3.4 (2.11)
Max. travel speed (high)	km/h (mph)	5.6 (3.48)
Gradeability	°	35

Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent all-round visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 10 vents.

Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has 12 different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level		
Sound level in cab according to ISO 6396		
L _{PA}	dB	70
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
L _{WA}	dB	100

Hydraulic System

The new electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high productivity, high-digging capacity and excellent fuel consumption.

The following important functions are included in the system:

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

Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.

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

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

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

Power boost: All digging and lifting forces are increased.

Auto warm up: Hydraulic oil temperature can be set below the threshold that has been set.

Creep mode: Lower travel speed (10%~50% of 1st full speed) can be set by creep switch on.

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

Main pump: 2 x Variable displacement axial piston pumps

Maximum flow	l/min (gal/min)	2 x 208 (2 x 54.9)
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Pilot pump: Gear pump

Maximum flow	l/min (gal/min)	1 x 16 (1 x 4.2)
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Max. pressure

Implement	MPa (psi)	34.3 (4,975)
Travel circuit	MPa (psi)	34.3 (4,975)
Slew circuit	MPa (psi)	29.5 (4,279)
Pilot circuit	MPa (psi)	3.9 (566)

Hydraulic Cylinders

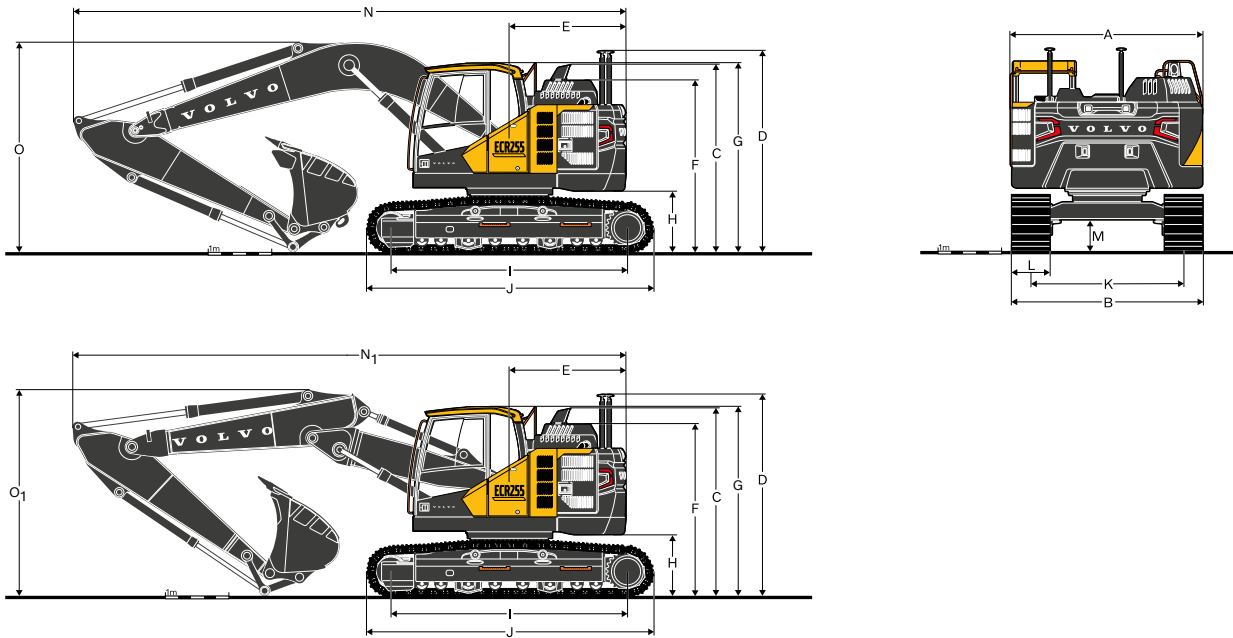
Boom		2
Bore x Stroke	ø x mm (ø x in)	130 x 1,420 (5.1 x 55.9)
2 piece boom		1
Bore x Stroke	ø x mm (ø x in)	160 x 1,070 (6.3 x 42.1)
1st boom of 2-piece boom		2
Bore x Stroke	ø x mm (ø x in)	130 x 1,345 (5.1 x 53)
Arm		1
Bore x Stroke	ø x mm (ø x in)	135 x 1,485 (5.3 x 58.5)
Bucket		1
Bore x Stroke	ø x mm (ø x in)	120 x 1,065 (4.7 x 41.9)
Dozer blade		2
Bore x Stroke	ø x mm (ø x in)	140 x 320 (5.5 x 12.6)

Service Refill

Fuel tank	lit (gal.)	299 (79)
DEF/AdBlue® tank	lit (gal.)	27 (7.13)
Hydraulic system, total	lit (gal.)	280 (74)
Hydraulic tank	lit (gal.)	126 (33.3)
Engine oil	lit (gal.)	25 (6.6)
Engine coolant	lit (gal.)	32 (8.45)
Slew reduction unit	lit (gal.)	4 (1.06)
Travel reduction unit	lit (gal.)	2 x 5 (2 x 1.3)



Specifications



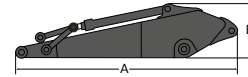
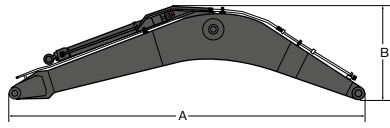
DIMENSIONS

Description	Unit		ECR255 L				ECR255 HW			
Boom			5.7 m (18'8") mono boom or 5.76 m (18'11") 2-piece boom							
Arm	m	ft in	2.5	8'2"	2.9	10'0"	2.5	8'2"	2.9	10'0"
A. Overall width of upper structure	mm	ft in	3,010	9'11"	3,010	9'11"	3,010	9'11"	3,010	9'11"
B. Overall width	mm	ft in	2,990	9'10"	2,990	9'10"	3,220	10'7"	3,220	10'7"
C. Overall height of cab	mm	ft in	3,010	9'11"	3,010	9'11"	3,180	10'5"	3,180	10'5"
D. Overall height of handrail	mm	ft in	3,000	9'10"	3,000	9'10"	3,170	10'5"	3,170	10'5"
E. Tail swing radius**	mm	ft in	1,810	5'11"	1,810	5'11"	1,810	5'11"	1,810	5'11"
F. Overall height of engine hood	mm	ft in	2,745	9'0"	2,745	9'0"	2,915	9'7"	2,915	9'7"
H. Counterweight clearance *	mm	ft in	1,005	3'4"	1,005	3'4"	1,175	3'10"	1,175	3'10"
I. Tumbler length	mm	ft in	3,660	12'0"	3,660	12'0"	3,850	12'8"	3,850	12'8"
J. Track length	mm	ft in	4,455	14'7"	4,455	14'7"	4,470	14'8"	4,470	14'8"
K. Track gauge	mm	ft in	2,390	7'10"	2,390	7'10"	2,620	8'7"	2,620	8'7"
L. Shoe width	mm	in	600	24	600	24	600	24	600	24
M. Min. ground clearance *	mm	in	515	20.3	515	20.3	515	20.3	515	20.3
N. Overall length	mm	ft in	9,065	29'9"	9,035	29'8"	9,075	29'9"	9,035	29'8"
N'. Overall length	mm	ft in	9,055	29'8"	9,025	29'7"	9,085	29'10"	9,055	29'8"
O. Overall height of boom	mm	ft in	3,330	10'11"	3,310	10'10"	3,410	11'2"	3,365	11'0"
O'. Overall height of boom *	mm	ft in	3,160	10'4"	3,210	10'6"	3,210	10'6"	3,250	10'8"

' 2 piece boom

* Without shoe grouser

**Tail swing radius : +40 mm (1.57 in) with 7,100 kg (15,655 lb) counterweight



DIMENSIONS

			Boom							Arm			
Description		Unit	5.7 m (18'8") GP		5.57 m (18'3") 2-piece boom		Description		Unit	2.5 m (8'2") HD		2.9 m (9'6") GP	
A. Length	mm	ft in	5,910	19'5"	5,965	19'7"	A. Length	mm	ft in	3,525	11'7"	3,910	12'10"
B. Height	mm	ft in	1,770	5'10"	1,300	4'3"	B. Height	mm	ft in	860	2'10"	860	2'10"
Width	mm	ft in	670	2'2"	670	2'2"	Width	mm	ft in	440	1'5"	440	1'5"
Weight	kg	lb	2,000	4,410	2,570	5,670	Weight	kg	lb	975	2,150	1,000	2,200

Includes cylinder, piping and pin, excludes boom cyl. Pin

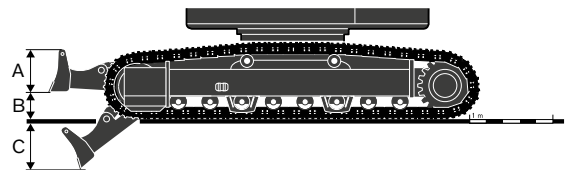
Includes cylinder, linkage and pin

ECR255

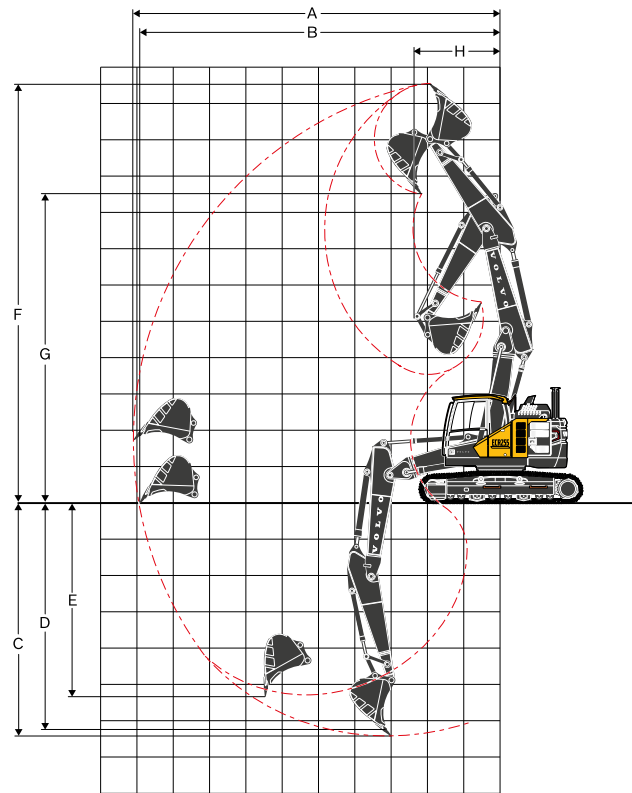
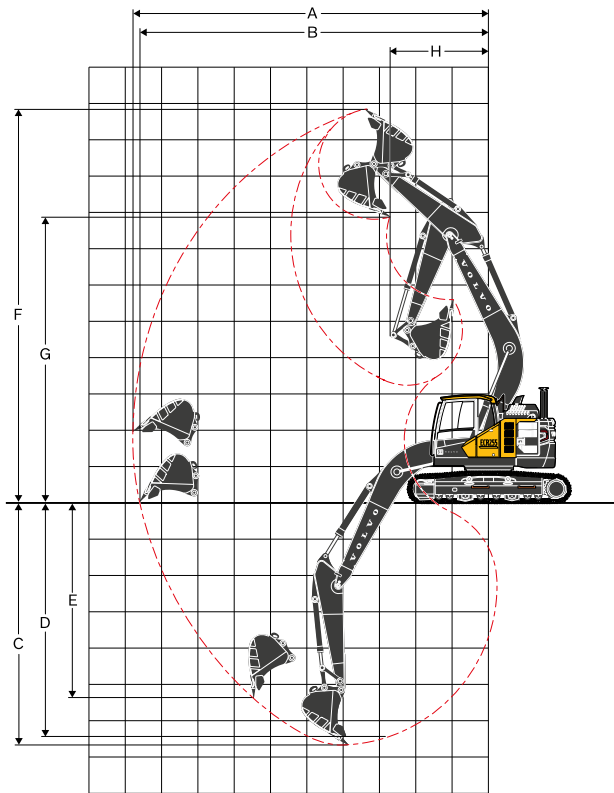
A. Height	mm	ft in	620	2'0"
B. Lift height	mm	ft in	550	1'10"
C. Digging depth	mm	ft in	570	1'10"

Width Blade

with 600 mm (24") shoe	mm	ft in	2,990	9'10"
with 700 mm (28") shoe	mm	ft in	3,090	10'2"
with 800 mm (32") shoe	mm	ft in	3,190	10'6"
Weight	kg	lb	790	1,740



Specifications



WORKING RANGES

Description	Unit		ECR255							
Boom			5.7 m (18'8") mono boom				5.57 m (18'3") 2-piece boom			
Arm	m	ft in	2.5	8'2"	2.9	9'6"	2.5	8'2"	2.9	9'6"
A. Max. digging reach	mm	ft in	9,510	31'2"	9,890	32'5"	9,690	31'9"	10,085	33'1"
B. Max. digging reach on ground	mm	ft in	9,340	30'8"	9,735	31'11"	9,660	31'8"	9,930	32'7"
C. Max. digging depth	mm	ft in	6,350	20'10"	6,755	22'2"	5,950	19'6"	6,355	20'10"
D. Max. digging depth (l=2,440 m (8'0") level)	mm	ft in	6,120	34'9"	6,550	35'10"	5,840	36'7"	6,250	37'9"
E. Max. vertical wall digging depth	mm	ft in	5,220	24'10"	5,685	25'10"	4,910	26'7"	5,325	27'9"
F. Max. cutting height	mm	ft in	10,600	17'2"	10,915	18'8"	11,150	16'1"	11,515	17'6"
G. Max. dumping height	mm	ft in	7,560	7'10"	7,870	7'1"	8,095	7'4"	8,460	7'1"
H. Min. front swing radius	mm	ft in	2,395	20'1"	2,170	21'6"	2,235	19'2"	2,160	20'6"

DIGGING FORCES WITH DIRECT FIT BUCKET

Bucket radius			mm	ft in	1,528	5'0"	1,528	5'0"	1,528	5'0"	1,528	5'0"
Breakout force (bucket)	Normal	SAE J1179	kN	lbf	125	28,100	125	28,100	125	28,100	125	28,100
	Power boost	SAE J1179	kN	lbf	132	29,700	132	29,700	132	29,700	132	29,700
	Normal	ISO 6015	kN	lbf	141	31,800	141	31,800	141	31,800	141	31,800
	Power boost	ISO 6015	kN	lbf	149	33,600	149	33,600	149	33,600	149	33,600
Tearout force (arm)	Normal	SAE J1179	kN	lbf	117	26,300	101	22,800	117	26,300	101	22,800
	Power boost	SAE J1179	kN	lbf	124	27,900	107	24,100	124	27,900	107	24,100
	Normal	ISO 6015	kN	lbf	121	27,100	104	23,400	121	27,100	104	23,400
	Power boost	ISO 6015	kN	lbf	128	28,700	110	24,700	128	28,700	110	24,700
Rotation angle, bucket				°	175		175		175		175	

MACHINE WEIGHTS AND GROUND PRESSURE - ECR255 L without Dozer blade

Description	Shoe width		Operating weight		Ground pressure		Overall width		Operating weight		Ground pressure		Overall width	
	mm	in	kg	lb	kPa	psi	mm	ft in	kg	lb	kPa	psi	mm	ft in
Triple grouser	600	24	24,270	53,520	50.0	7.3	2,990	9'10"	25,170	55,500	52.0	7.5	2,990	9'10"
	600 (HD)	24 (HD)	24,365	53,720	51.0	7.4	2,990	9'10"	25,265	55,710	52.0	7.5	2,990	9'10"
	700	28	24,645	54,340	44.1	6.4	3,090	10'2"	25,545	56,320	45.1	6.5	3,090	10'2"
	800	32	24,925	54,950	39.2	5.7	3,190	10'6"	25,825	56,940	40.2	5.8	3,190	10'6"
	900	36	25,090	55,320	34.3	5.0	3,290	10'10"	25,990	57,310	36.3	5.3	3,290	10'10"
Rubber grouser	600	24	24,540	54,110	51.0	7.4	2,990	9'10"	25,440	56,100	53.0	7.7	2,990	9'10"
Add on rubber grouser	600	24	25,095	55,330	52.0	7.5	2,990	9'10"	25,995	57,310	53.9	7.8	2,990	9'10"
Double grouser	700	28	24,950	55,010	44.1	6.4	3,090	10'2"	25,850	56,990	46.1	6.7	3,090	10'2"
			5.7 m (18'8") GP mono boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.7 m (18'8") GP mono boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					
Triple grouser	600	24	24,285	53,550	50.0	7.3	2,990	9'10"	25,185	55,530	52.0	7.5	2,990	9'10"
	600 (HD)	24 (HD)	24,380	53,760	51.0	7.4	2,990	9'10"	25,280	55,740	52.0	7.5	2,990	9'10"
	700	28	24,660	54,370	44.1	6.4	3,090	10'2"	25,560	56,360	45.1	6.5	3,090	10'2"
	800	32	24,940	54,990	39.2	5.7	3,190	10'6"	25,840	56,970	40.2	5.8	3,190	10'6"
	900	36	25,105	55,360	34.3	5.0	3,290	10'10"	26,005	57,340	36.3	5.3	3,290	10'10"
Rubber grouser	600	24	24,555	54,140	51.0	7.4	2,990	9'10"	25,455	56,130	53.0	7.7	2,990	9'10"
Add on rubber grouser	600	24	25,110	55,360	52.0	7.5	2,990	9'10"	26,010	57,340	53.9	7.8	2,990	9'10"
Double grouser	700	28	24,965	55,040	44.1	6.4	3,090	10'2"	25,865	57,030	46.1	6.7	3,090	10'2"
			5.7 m (18'8") GP mono boom, 2.5 m (8'2") HD arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.7 m (18'8") GP mono boom, 2.5 m (8'2") HD arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					
Triple grouser	600	24	25,100	55,340	52.0	7.5	2,990	9'10"	26,000	57,320	53.9	7.8	2,990	9'10"
	600 (HD)	24 (HD)	25,195	55,550	52.0	7.5	2,990	9'10"	26,095	57,530	53.9	7.8	2,990	9'10"
	700	28	25,470	56,160	45.1	6.5	3,090	10'2"	26,370	58,150	47.1	6.8	3,090	10'2"
	800	32	25,750	56,780	40.2	5.8	3,190	10'6"	26,650	58,760	41.2	6.0	3,190	10'6"
	900	36	25,920	57,150	36.3	5.3	3,290	10'10"	26,820	59,130	37.3	5.4	3,290	10'10"
Rubber grouser	600	24	25,370	55,930	53.0	7.7	2,990	9'10"	26,270	57,920	54.9	8.0	2,990	9'10"
Add on rubber grouser	600	24	25,920	57,150	53.9	7.8	2,990	9'10"	26,820	59,130	55.9	8.1	2,990	9'10"
Double grouser	700	28	25,775	56,830	46.1	6.7	3,090	10'2"	26,675	58,820	47.1	6.8	3,090	10'2"
			5.76 m (18'11") 2-pieces boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.76 m (18'11") 2-pieces boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					
Triple grouser	600	24	25,085	55,310	52.0	7.5	2,990	9'10"	25,985	57,290	53.9	7.8	2,990	9'10"
	600 (HD)	24 (HD)	25,180	55,510	52.0	7.5	2,990	9'10"	26,080	57,500	53.9	7.8	2,990	9'10"
	700	28	25,455	56,130	45.1	6.5	3,090	10'2"	26,355	58,110	47.1	6.8	3,090	10'2"
	800	32	25,735	56,740	40.2	5.8	3,190	10'6"	26,635	58,730	41.2	6.0	3,190	10'6"
	900	36	25,905	57,110	36.3	5.3	3,290	10'10"	26,805	59,100	37.3	5.4	3,290	10'10"
Rubber grouser	600	24	25,355	55,900	53.0	7.7	2,990	9'10"	26,255	57,890	54.9	8.0	2,990	9'10"
Add on rubber grouser	600	24	25,905	57,120	53.9	7.8	2,990	9'10"	26,805	59,100	55.9	8.1	2,990	9'10"
Double grouser	700	28	25,760	56,800	46.1	6.7	3,090	10'2"	26,660	58,780	47.1	6.8	3,090	10'2"
			5.76 m (18'11") 2-pieces boom, 2.5 m (8'2") GP arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.76 m (18'11") 2-pieces boom, 2.5 m (8'2") GP arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					

Specifications

MACHINE WEIGHTS AND GROUND PRESSURE - ECR255 L with Dozer blade														
Description	Shoe width		Operating weight		Ground pressure		Overall width		Operating weight		Ground pressure		Overall width	
	mm	in	kg	lb	kPa	psi	mm	ft in	kg	lb	kPa	psi	mm	ft in
Triple grouser	600	24	25,660	56,580	53.0	7.7	2,990	9'10"	26,560	58,650	54.9	8.0	2,990	9'10"
	600 (HD)	24 (HD)	25,755	56,790	53.0	7.7	2,990	9'10"	26,655	58,770	54.9	8.0	2,990	9'10"
	700	28	26,065	57,470	46.1	6.7	3,090	10'2"	26,965	59,450	48.0	7.0	3,090	10'2"
	800	32	26,340	58,080	41.2	6.0	3,190	10'6"	27,240	60,060	42.2	6.1	3,190	10'6"
Rubber grouser	600	24	25,930	57,170	53.9	7.8	2,990	9'10"	26,830	59,160	55.9	8.1	2,990	9'10"
Add on rubber grouser	600	24	26,480	58,390	54.9	8.0	2,990	9'10"	27,380	60,370	56.9	8.2	2,990	9'10"
Double grouser	700	28	26,370	58,140	47.1	6.8	3,090	10'2"	27,265	60,120	48.0	7.0	3,090	10'2"
			5.7 m (18'8") GP mono boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.7 m (18'8") GP mono boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					
Triple grouser	600	24	25,645	56,550	53.0	7.7	2,990	9'10"	26,545	58,530	54.9	8.0	2,990	9'10"
	600 (HD)	24 (HD)	25,740	56,750	53.0	7.7	2,990	9'10"	26,640	58,740	54.9	8.0	2,990	9'10"
	700	28	26,050	57,430	46.1	6.7	3,090	10'2"	26,950	59,420	48.0	7.0	3,090	10'2"
	800	32	26,330	58,050	41.2	6.0	3,190	10'6"	27,230	60,030	42.2	6.1	3,190	10'6"
Rubber grouser	600	24	25,915	57,140	53.9	7.8	2,990	9'10"	26,815	59,120	55.9	8.1	2,990	9'10"
Add on rubber grouser	600	24	26,465	58,360	54.9	8.0	2,990	9'10"	27,365	60,340	56.9	8.2	2,990	9'10"
Double grouser	700	28	26,355	58,100	47.1	6.8	3,090	10'2"	27,255	60,090	48.0	7.0	3,090	10'2"
			5.7 m (18'8") GP mono boom, 2.5 m (8'2") HD arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.7 m (18'8") GP mono boom, 2.5 m (8'2") HD arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					
Triple grouser	600	24	26,490	58,400	54.9	8.0	2,990	9'10"	27,390	60,390	56.9	8.2	2,990	9'10"
	600 (HD)	24 (HD)	26,580	58,610	54.9	8.0	2,990	9'10"	27,480	60,590	56.9	8.2	2,990	9'10"
	700	28	26,890	59,290	48.0	7.0	3,090	10'2"	27,790	61,270	49.0	7.1	3,090	10'2"
	800	32	27,170	59,900	42.2	6.1	3,190	10'6"	28,070	61,890	44.1	6.4	3,190	10'6"
Rubber grouser	600	24	26,760	59,000	55.9	8.1	2,990	9'10"	27,660	60,980	56.9	8.2	2,990	9'10"
Add on rubber grouser	600	24	27,310	60,210	56.9	8.2	2,990	9'10"	28,210	62,200	58.8	8.5	2,990	9'10"
Double grouser	700	28	27,195	59,960	48.0	7.0	3,090	10'2"	28,095	61,940	50.0	7.3	3,090	10'2"
			5.76 m (18'11") 2-pieces boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.76 m (18'11") 2-pieces boom, 2.9 m (9'6") GP arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					
Triple grouser	600	24	26,475	58,370	54.9	8.0	2,990	9'10"	27,375	60,350	56.9	8.2	2,990	9'10"
	600 (HD)	24 (HD)	26,565	58,580	54.9	8.0	2,990	9'10"	27,465	60,560	56.9	8.2	2,990	9'10"
	700	28	26,875	59,260	48.0	7.0	3,090	10'2"	27,775	61,240	49.0	7.1	3,090	10'2"
	800	32	27,155	59,870	42.2	6.1	3,190	10'6"	28,055	61,860	43.1	6.3	3,190	10'6"
Rubber grouser	600	24	26,745	58,960	55.9	8.1	2,990	9'10"	27,645	60,950	56.9	8.2	2,990	9'10"
Add on rubber grouser	600	24	27,295	60,180	56.9	8.2	2,990	9'10"	28,195	62,160	58.8	8.5	2,990	9'10"
Double grouser	700	28	27,180	59,930	48.0	7.0	3,090	10'2"	28,080	61,910	50.0	7.3	3,090	10'2"
			5.76 m (18'11") 2-pieces boom, 2.5 m (8'2") GP arm, 1.09 m³ (288 gal) bucket, 6,200 kg (13,670 lb) counterweight						5.76 m (18'11") 2-pieces boom, 2.5 m (8'2") GP arm, 1.09 m³ (288 gal) bucket, 7,100 kg (15,660 lb) counterweight					

BUCKET SELECTION GUIDE

Bucket type		Capacity		Cutting width		Weight		Teeth	ECR255, 600 mm (24") shoe, 6,200 kg (13,670 lb) counterweight				ECR255, 700 mm (28") shoe, 6,200 kg (13,670 lb) counterweight			
									5.7 m (18'8") boom		5.76 m (18'11") 2-piece boom		5.7 m (18'8") boom		5.76 m (18'11") 2-piece boom	
		m ³	yd ³	mm	in	kg	lb	EA	2.5 m (8'2") arm	2.9 m (9'6") arm	2.5 m (8'2") arm	2.9 m (9'6") arm	2.5 m (8'2") arm	2.9 m (9'6") arm	2.5 m (8'2") arm	2.9 m (9'6") arm
Direct fit Buckets General purpose	Without Quick Coupler	0.48	0.63	600	23.6	623	1,373	3	C	C	C	C	C	C	C	C
		0.63	0.82	800	31.5	703	1,550	4	C	C	C	C	C	C	C	C
		0.75	0.98	900	35.4	749	1,651	4	C	C	C	C	C	C	C	C
		0.92	1.20	1,050	41.3	819	1,806	4	C	C	C	C	C	C	C	C
		1.09	1.43	1,200	47.2	908	2,002	5	C	C	C	C	C	C	C	C
		1.27	1.66	1,350	53.1	995	2,194	5	C	C	C	B	C	C	C	C
		1.44	1.88	1,500	59.1	1,085	2,392	6	C	B	B	B	C	B	B	B
	U type quick coupler	0.48	0.63	600	23.6	623	1,373	3	C	C	C	C	C	C	C	C
		0.63	0.82	800	31.5	703	1,550	4	C	C	C	C	C	C	C	C
		0.75	0.98	900	35.4	749	1,651	4	C	C	C	C	C	C	C	C
		0.92	1.20	1,050	41.3	819	1,806	4	C	C	C	C	C	C	C	C
		1.09	1.43	1,200	47.2	908	2,002	5	C	C	C	C	C	C	C	C
		1.27	1.66	1,350	53.1	995	2,194	5	C	B	B	B	C	B	B	B
		1.44	1.88	1,500	59.1	1,085	2,392	6	B	A	A	A	B	A	B	A

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.
The recommendations are given as a guide only, based on typical operation conditions.
Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density

A: 1,200~1,300 kg/m³ (2,000~2,200 lb/yd³): Coal, Caliche, Shale

B: 1,400~1,600 kg/m³ (2,350~2,700 lb/yd³): Wet earth and clay, Limestone, Sandstone

C: 1,700~1,800 kg/m³ (2,865~3,100 lb/yd³): Granite, Wet sand, Well blasted rock

D: 1,900 kg/m³ ~ (3,200 lb/yd³ ~): Wet mud, Iron ore

Specifications

LIFTING CAPACITY - ECR255 L

At the arm end without bucket.

For Lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

	Lifting point		1.5 m / 5 ft		3 m / 10 ft		4.5 m / 15 ft		6.0 m / 20 ft		7.5 m / 25 ft		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom : 5.7 m (18'8") GP Arm : 2.5 m (8'2") Shoe : 600 mm (24") CWT : 6,200 kg (13,670 lb)	9 m	kg			*8,380	*8,380							*8,380	*8,380	3.1 m
	30 ft	lb													
	7.5 m	kg					*6,890	*6,890					*6,680	6,080	5.5 m
	25 ft	lb					*15,310	*15,310					*14,870	13,960	17.5 ft
	6 m	kg					*7,210	*7,210	*6,880	5,220			*6,230	4,300	6.7 m
	20 ft	lb					*15,730	*15,730	*15,140	11,230			*13,780	9,650	21.9 ft
	4.5 m	kg					*8,700	7,930	*7,430	5,070			5,630	3,550	7.5 m
	15 ft	lb			*25,070	*25,070	*18,800	17,120	*16,200	10,930			12,510	7,890	24.4 ft
	3 m	kg					*10,880	7,350	7,810	4,820	5,510	3,450	5,100	3,190	7.9 m
	10 ft	lb					*23,450	15,870	16,820	10,410	11,860	7,420	11,280	7,050	25.8 ft
	1.5 m	kg					11,930	6,850	7,540	4,580	5,390	3,340	4,920	3,050	8.0 m
	5 ft	lb					25,620	14,780	16,240	9,900	11,610	7,200	10,860	6,730	26.1 ft
	0 m	kg					11,630	6,600	7,350	4,420	5,300	3,260	5,040	3,100	7.8 m
	0 ft	lb					24,960	14,230	15,840	9,540	11,430	7,030	11,110	6,840	25.5 ft
	-1.5 m	kg			*11,650	*11,650	11,570	6,550	7,290	4,360			5,530	3,380	7.3 m
	-5 ft	lb			*26,580	*26,580	24,820	14,110	15,690	9,410			12,220	7,480	23.8 ft
	-3.0 m	kg			*15,910	12,960	11,670	6,630	7,350	4,420			6,750	4,100	6.4 m
	-10 ft	lb			*34,520	27,770	25,040	14,300	15,850	9,560			15,030	9,110	20.8 ft
	-4.5 m	kg			*11,740	*11,740	*8,570	6,900					*7,760	6,190	4.9 m
	-15 ft	lb			*25,040	*25,040	*18,000	14,920					*17,040	14,100	15.6 ft
Boom : 5.7 m (18'8") GP Arm : 2.9 m (9'6") Shoe : 600 mm (24") CWT : 6,200 kg (13,670 lb)	9 m	kg											*5,830	*5,830	4.0 m
	30 ft	lb											*13,290	*13,290	12.3 ft
	7.5 m	kg					*6,150	*6,150	*4,920	*4,920			*4,830	*4,830	6.0 m
	25 ft	lb					*13,650	*13,650					*10,750	*10,750	19.4 ft
	6 m	kg					*6,530	*6,530	*6,380	5,290			*4,530	3,890	7.2 m
	20 ft	lb					*14,270	*14,270	*14,020	11,370			*10,010	8,710	23.4 ft
	4.5 m	kg			*10,230	*10,230	*8,010	*8,010	*7,000	5,120	5,650	3,570	*4,490	3,270	7.9 m
	15 ft	lb			*21,800	*21,800	*17,330	*17,330	*15,250	11,040	12,140	7,670	*9,900	7,260	25.8 ft
	3 m	kg					*10,230	7,470	7,860	4,860	5,530	3,460	*4,650	2,960	8.3 m
	10 ft	lb					*22,050	16,120	16,920	10,490	11,900	7,450	*10,220	6,540	27.1 ft
	1.5 m	kg					12,020	6,920	7,570	4,600	5,390	3,330	4,580	2,830	8.4 m
	5 ft	lb					25,820	14,930	16,290	9,930	11,610	7,190	10,090	6,250	27.4 ft
	0 m	kg					11,640	6,610	7,350	4,410	5,280	3,230	4,670	2,870	8.2 m
	0 ft	lb					24,990	14,240	15,830	9,520	11,380	6,980	10,290	6,320	26.8 ft
	-1.5 m	kg	*6,750	*6,750	*10,980	*10,980	11,520	6,510	7,250	4,320	5,240	3,200	5,060	3,090	7.7 m
	-5 ft	lb	*15,120	*15,120	*24,960	*24,960	24,720	14,020	15,610	9,330	11,300	6,910	11,190	6,840	25.2 ft
	-3.0 m	kg	*11,760	*11,760	*17,000	12,790	11,580	6,550	7,270	4,350			6,020	3,660	6.8 m
	-10 ft	lb	*26,420	*26,420	*36,850	27,410	24,850	14,120	15,680	9,390			13,370	8,120	22.3 ft
	-4.5 m	kg			*13,310	13,160	*9,670	6,760					*7,590	5,120	5.5 m
	-15 ft	lb			*28,510	28,240	*20,590	14,590					*16,710	11,580	17.7 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY - ECR255 L

At the arm end without bucket.

For Lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

	Lifting point		1.5 m / 5 ft		3 m / 10 ft		4.5 m / 15 ft		6.0 m / 20 ft		7.5 m / 25 ft		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom : 5.7 m (18'8") GP Arm : 2.5 m (8'2") Shoe : 700 mm (28") CWT : 6,200 kg (13,670 lb)	9 m	kg			*8,380	*8,380							*8,380	*8,380	3.1 m
	30 ft	lb													
	7.5 m	kg					*6,890	*6,890					*6,680	6,150	5.5 m
	25 ft	lb					*15,310	*15,310					*14,870	14,110	17.5 ft
	6 m	kg					*7,210	*7,210	*6,880	5,280			*6,230	4,350	6.7 m
	20 ft	lb					*15,730	*15,730	*15,140	11,360			*13,780	9,760	21.9 ft
	4.5 m	kg					*8,700	8,020	*7,430	5,130			5,710	3,600	7.5 m
	15 ft	lb			*25,070	*25,070	*18,800	17,300	*16,200	11,050			12,670	7,990	24.4 ft
	3 m	kg					*10,880	7,430	7,910	4,880	5,580	3,490	5,170	3,230	7.9 m
	10 ft	lb					*23,450	16,050	17,030	10,540	12,020	7,520	11,420	7,150	25.8 ft
	1.5 m	kg					12,080	6,930	7,640	4,640	5,460	3,380	4,990	3,090	8.0 m
	5 ft	lb					25,950	14,970	16,450	10,020	11,770	7,290	11,000	6,820	26.1 ft
	0 m	kg					11,780	6,690	7,450	4,480	5,370	3,300	5,110	3,140	7.8 m
	0 ft	lb					25,290	14,420	16,050	9,670	11,580	7,130	11,260	6,930	25.5 ft
	-1.5 m	kg			*11,650	*11,650	11,720	6,640	7,380	4,420			5,600	3,430	7.3 m
	-5 ft	lb			*26,580	*26,580	25,150	14,300	15,900	9,540			12,390	7,580	23.8 ft
	-3.0 m	kg			*15,910	13,120	*11,700	6,720	7,450	4,480			6,840	4,150	6.4 m
	-10 ft	lb			*34,520	28,110	*25,290	14,480	16,060	9,680			15,230	9,230	20.8 ft
	-4.5 m	kg			*11,740	*11,740	*8,570	6,980					*7,760	6,270	4.9 m
	-15 ft	lb			*25,040	*25,040	*18,000	15,100					*17,040	14,280	15.6 ft
Boom : 5.7 m (18'8") GP Arm : 2.9 m (9'6") Shoe : 700 mm (28") CWT : 6,200 kg (13,670 lb)	9 m	kg											*5,830	*5,830	4.0 m
	30 ft	lb											*13,290	*13,290	12.3 ft
	7.5 m	kg					*6,150	*6,150	*4,920	*4,920			*4,830	*4,830	6.0 m
	25 ft	lb					*13,650	*13,650					*10,750	*10,750	19.4 ft
	6 m	kg					*6,530	*6,530	*6,380	5,350			*4,530	3,940	7.2 m
	20 ft	lb					*14,270	*14,270	*14,020	11,500			*10,010	8,810	23.4 ft
	4.5 m	kg			*10,230	*10,230	*8,010	*8,010	*7,000	5,180	5,720	3,610	*4,490	3,310	7.9 m
	15 ft	lb			*21,800	*21,800	*17,330	*17,330	*15,250	11,160	12,300	7,770	*9,900	7,350	25.8 ft
	3 m	kg					*10,230	7,550	7,960	4,920	5,600	3,500	*4,650	3,000	8.3 m
	10 ft	lb					*22,050	16,310	17,130	10,620	12,060	7,550	*10,220	6,620	27.1 ft
	1.5 m	kg					12,170	7,000	7,660	4,660	5,460	3,380	4,640	2,870	8.4 m
	5 ft	lb					26,150	15,120	16,500	10,060	11,770	7,280	10,230	6,330	27.4 ft
	0 m	kg					11,800	6,690	7,450	4,470	5,350	3,280	4,730	2,910	8.2 m
	0 ft	lb					25,320	14,430	16,040	9,650	11,540	7,070	10,430	6,410	26.8 ft
	-1.5 m	kg	*6,750	*6,750	*10,980	*10,980	11,680	6,590	7,350	4,380	5,310	3,240	5,130	3,140	7.7 m
	-5 ft	lb	*15,120	*15,120	*24,960	*24,960	25,050	14,200	15,820	9,460	11,460	7,000	11,340	6,940	25.2 ft
	-3.0 m	kg	*11,760	*11,760	*17,000	12,950	11,730	6,640	7,370	4,400			6,100	3,710	6.8 m
	-10 ft	lb	*26,420	*26,420	*36,850	27,760	25,170	14,300	15,890	9,510			13,550	8,230	22.3 ft
	-4.5 m	kg			*13,310	*13,310	*9,670	6,840					*7,590	5,190	5.5 m
	-15 ft	lb			*28,510	*28,510	*20,590	14,770					*16,710	11,730	17.7 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Specifications

LIFTING CAPACITY - ECR255 L

At the arm end without bucket.

For Lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

	Lifting point		1.5 m / 5 ft		3 m / 10 ft		4.5 m / 15 ft		6.0 m / 20 ft		7.5 m / 25 ft		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom : 5.7 m (18'8") GP Arm : 2.5 m (8'2") Shoe : 800 mm (32") CWT : 6,200 kg (13,670 lb)	9 m	kg			*8,380	*8,380							*8,380	*8,380	3.1 m
	30 ft	lb													
	7.5 m	kg					*6,890	*6,890					*6,680	6,210	5.5 m
	25 ft	lb					*15,310	*15,310					*14,870	14,250	17.5 ft
	6 m	kg					*7,210	*7,210	*6,880	5,340			*6,230	4,400	6.7 m
	20 ft	lb					*15,730	*15,730	*15,140	11,480			*13,780	9,870	21.9 ft
	4.5 m	kg					*8,700	8,100	*7,430	5,180			5,780	3,640	7.5 m
	15 ft	lb			*25,070	*25,070	*18,800	17,480	*16,200	11,180			12,830	8,090	24.4 ft
	3 m	kg					*10,880	7,520	8,000	4,940	5,650	3,530	5,240	3,270	7.9 m
	10 ft	lb					*23,450	16,240	17,230	10,660	12,170	7,610	11,570	7,240	25.8 ft
	1.5 m	kg					12,230	7,020	7,730	4,700	5,530	3,420	5,050	3,130	8.0 m
	5 ft	lb					26,270	15,150	16,650	10,150	11,920	7,390	11,140	6,910	26.1 ft
	0 m	kg					11,930	6,770	7,550	4,540	5,440	3,340	5,170	3,180	7.8 m
	0 ft	lb					25,610	14,600	16,250	9,790	11,740	7,220	11,410	7,030	25.5 ft
	-1.5 m	kg			*11,650	*11,650	11,870	6,720	7,480	4,480			5,680	3,470	7.3 m
	-5 ft	lb			*26,580	*26,580	25,460	14,480	16,110	9,660			12,550	7,680	23.8 ft
	-3.0 m	kg			*15,910	13,280	*11,700	6,800	7,540	4,530			6,930	4,200	6.4 m
	-10 ft	lb			*34,520	28,450	*25,290	14,670	16,270	9,810			15,430	9,350	20.8 ft
	-4.5 m	kg			*11,740	*11,740	*8,570	7,070					*7,760	6,350	4.9 m
	-15 ft	lb			*25,040	*25,040	*18,000	15,280					*17,040	14,450	15.6 ft
Boom : 5.7 m (18'8") GP Arm : 2.9 m (9'6") Shoe : 800 mm (32") CWT : 6,200 kg (13,670 lb)	9 m	kg											*5,830	*5,830	4.0 m
	30 ft	lb											*13,290	*13,290	12.3 ft
	7.5 m	kg					*6,150	*6,150	*4,920	*4,920			*4,830	*4,830	6.0 m
	25 ft	lb					*13,650	*13,650					*10,750	*10,750	19.4 ft
	6 m	kg					*6,530	*6,530	*6,380	5,400			*4,530	3,980	7.2 m
	20 ft	lb					*14,270	*14,270	*14,020	11,620			*10,010	8,910	23.4 ft
	4.5 m	kg			*10,230	*10,230	*8,010	*8,010	*7,000	5,240	5,790	3,660	*4,490	3,350	7.9 m
	15 ft	lb			*21,800	*21,800	*17,330	*17,330	*15,250	11,290	12,450	7,860	*9,900	7,440	25.8 ft
	3 m	kg					*10,230	7,640	*8,000	4,980	5,670	3,550	*4,650	3,030	8.3 m
	10 ft	lb					*22,050	16,490	17,340	10,740	12,210	7,640	*10,220	6,710	27.1 ft
	1.5 m	kg					*12,250	7,090	7,760	4,720	5,530	3,420	4,700	2,910	8.4 m
	5 ft	lb					*26,460	15,300	16,710	10,180	11,920	7,380	10,370	6,420	27.4 ft
	0 m	kg					11,950	6,780	7,540	4,530	5,420	3,320	4,790	2,950	8.2 m
	0 ft	lb					25,640	14,610	16,240	9,770	11,690	7,170	10,570	6,500	26.8 ft
	-1.5 m	kg	*6,750	*6,750	*10,980	*10,980	11,820	6,680	7,440	4,440	5,380	3,280	5,200	3,180	7.7 m
	-5 ft	lb	*15,120	*15,120	*24,960	*24,960	25,370	14,380	16,030	9,580	11,610	7,100	11,490	7,030	25.2 ft
	-3.0 m	kg	*11,760	*11,760	*17,000	13,110	11,880	6,720	7,470	4,460			6,180	3,750	6.8 m
	-10 ft	lb	*26,420	*26,420	*36,850	28,090	25,490	14,490	16,090	9,640			13,730	8,340	22.3 ft
	-4.5 m	kg			*13,310	*13,310	*9,670	6,930					*7,590	5,260	5.5 m
	-15 ft	lb			*28,510	*28,510	*20,590	14,950					*16,710	11,880	17.7 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

LIFTING CAPACITY - ECR255 L

At the arm end without bucket.

For Lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

	Lifting point		1.5 m / 5 ft		3 m / 10 ft		4.5 m / 15 ft		6.0 m / 20 ft		7.5 m / 25 ft		Max. reach		
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
Boom : 5.7 m (18'8") GP Arm : 2.5 m (8'2") Shoe : 900 mm (36") CWT : 6,200 kg (13,670 lb)	9 m	kg			*8,380	*8,380							*8,380	*8,380	3.1 m
	30 ft	lb													
	7.5 m	kg					*6,890	*6,890					*6,680	6,230	5.5 m
	25 ft	lb					*15,310	*15,310					*14,870	14,290	17.5 ft
	6 m	kg					*7,210	*7,210	*6,880	5,350			*6,230	4,420	6.7 m
	20 ft	lb					*15,730	*15,730	*15,140	11,510			*13,780	9,900	21.9 ft
	4.5 m	kg					*8,700	8,120	*7,430	5,200			5,790	3,650	7.5 m
	15 ft	lb			*25,070	*25,070	*18,800	17,530	*16,200	11,210			12,860	8,110	24.4 ft
	3 m	kg					*10,880	7,540	8,030	4,950	5,670	3,550	5,250	3,280	7.9 m
	10 ft	lb					*23,450	16,280	17,280	10,690	12,200	7,640	11,600	7,260	25.8 ft
	1.5 m	kg					12,260	7,040	7,750	4,710	5,550	3,430	5,070	3,140	8.0 m
	5 ft	lb					26,340	15,190	16,700	10,180	11,950	7,410	11,180	6,930	26.1 ft
	0 m	kg					11,970	6,790	7,570	4,550	5,460	3,350	5,190	3,190	7.8 m
	0 ft	lb					25,690	14,640	16,300	9,820	11,770	7,240	11,440	7,050	25.5 ft
	-1.5 m	kg			*11,650	*11,650	11,900	6,740	7,500	4,490			5,690	3,480	7.3 m
	-5 ft	lb			*26,580	*26,580	25,540	14,520	16,160	9,690			12,590	7,700	23.8 ft
	-3.0 m	kg			*15,910	13,310	*11,700	6,820	7,570	4,550			6,950	4,220	6.4 m
	-10 ft	lb			*34,520	28,530	*25,290	14,710	16,320	9,840			15,470	9,380	20.8 ft
	-4.5 m	kg			*11,740	*11,740	*8,570	7,090					*7,760	6,360	4.9 m
	-15 ft	lb			*25,040	*25,040	*18,000	15,330					*17,040	14,490	15.6 ft
Boom : 5.7 m (18'8") GP Arm : 2.9 m (9'6") Shoe : 900 mm (36") CWT : 6,200 kg (13,670 lb)	9 m	kg											*5,830	*5,830	4.0 m
	30 ft	lb											*13,290	*13,290	12.3 ft
	7.5 m	kg					*6,150	*6,150	*4,920	*4,920			*4,830	*4,830	6.0 m
	25 ft	lb					*13,650	*13,650					*10,750	*10,750	19.4 ft
	6 m	kg					*6,530	*6,530	*6,380	5,420			*4,530	3,990	7.2 m
	20 ft	lb					*14,270	*14,270	*14,020	11,650			*10,010	8,940	23.4 ft
	4.5 m	kg			*10,230	*10,230	*8,010	*8,010	*7,000	5,250	5,810	3,670	*4,490	3,360	7.9 m
	15 ft	lb			*21,800	*21,800	*17,330	*17,330	*15,250	11,320	*12,460	7,880	*9,900	7,460	25.8 ft
	3 m	kg					*10,230	7,660	*8,000	4,990	5,690	3,560	*4,650	3,040	8.3 m
	10 ft	lb					*22,050	16,530	*17,370	10,770	12,240	7,670	*10,220	6,730	27.1 ft
	1.5 m	kg					*12,250	7,110	7,780	4,730	5,550	3,430	4,710	2,920	8.4 m
	5 ft	lb					*26,460	15,340	16,760	10,210	11,950	7,400	10,400	6,440	27.4 ft
	0 m	kg					11,980	6,800	7,570	4,540	5,440	3,330	4,810	2,960	8.2 m
	0 ft	lb					25,720	14,650	16,290	9,800	11,720	7,190	10,600	6,520	26.8 ft
	-1.5 m	kg	*6,750	*6,750	*10,980	*10,980	11,860	6,700	7,470	4,450	5,400	3,290	5,220	3,190	7.7 m
	-5 ft	lb	*15,120	*15,120	*24,960	*24,960	25,440	14,430	16,070	9,610	11,650	7,120	11,530	7,050	25.2 ft
	-3.0 m	kg	*11,760	*11,760	*17,000	13,150	11,920	6,740	7,490	4,480			6,200	3,770	6.8 m
	-10 ft	lb	*26,420	*26,420	*36,850	28,170	25,570	14,530	16,140	9,670			13,770	8,370	22.3 ft
	-4.5 m	kg			*13,310	*13,310	*9,670	6,950					*7,590	5,270	5.5 m
	-15 ft	lb			*28,510	*28,510	*20,590	15,000					*16,710	11,910	17.7 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities.

2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.

3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

4. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

Equipment

STANDARD & OPTIONAL EQUIPMENT

• = Standard / o = Optional

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets Stage V requirements	•
Electric cooling fan system	•
New work mode with 10 steps	•
Cyclone pre-cleaner	•
Engine block heater	o
Coolant heater by diesel	o
Reversible fan drive	o
Fuel filler pump	o
Air filter, High efficiency	o
Delayed engine shutdown	•
Automatic engine shutdown	o
Water separator with heater	o
Arctic regeneration	o
Regeneration control	o
Oil sampling port for engine oil	o

Electric / Electronic control system

Anti-theft with code lock system	•
Alternator, 180 A	•
Automatic idling system	•
Lock Out / Tag Out function on battery main switch	•
Standard light	•
Basic light package	o
Advanced light package	o
Deluxe light package	o
Arm light	o
LH light	o
Caretrack, 4G GSM/Satellite	o
Joystick, 4 switch	o
Joystick, 4 switch & 1 prop	•
Joystick, simple L8	o
Joystick, L8	o
Batteries, 2 x 12 V / 200 Ah	o

Undercarriage and structures

3-point side access with handrail	•
Direct filling DEF (AdBlue) / Sight gauge and splash guard	•
Openable 1 piece hood	•
Undercovers (heavy duty)	•
HD Side door & hood with screen	o
Lower frame, Folder step, L	•
Lower frame, D/blade, F step, L	o
Lower frame, High walker	o
Link 600/700 mm double gr shoe	o
Link 600/700/800/900 mm triple gr shoe	•
Link 600 mm rubber shoe	o
Link 600 mm add rubber pad	o
Full track guard	o
Punched metal anti-slip plates	•

STANDARD & OPTIONAL EQUIPMENT

• = Standard / o = Optional

Hydraulic system

EH-positive (Electro-Hydraulic) control system	•
Priority Adjustment	•
- Boom up & swing priority	•
- Boom down speed control	•
Shock reduction function, Boom/Arm	•
Auto power boost	•
Hydraulic oil mineral, 32 / 46 / 68	•
Longlife hyd oil mineral, 32 / 46 / 68	o
Hydraulic oil bio 46	o
Oil leak line, on base machine/Boom/Arm	o
Auto warm up	o
Boom float function	o
Comfort driving control	o
Creep mode	o
Straight travel pedal	o
Variable X3 P-Q control	o
Hose rupture valve for boom, with overload warning device	o
Hose rupture valve for arm	o
Pattern change	o
Hydraulic attachment piping:	o
- Breaker & shear	o
- Slope/Rotator	o
- Grapple	o
- Quick coupler	o
- Oil leak line, on base machine/Boom/Arm	o
- Pressure pre-setting	o

Cab and interior

Keyless engine start and stop	•
8" HD display	•
ROPS certified cab	•
Tilttable left console	•
Digital hour meter	•
Wireless mobile charger with Kinematic sensor package option	•
Various storage space with cool/heated	•
1 piece wind shield cab	o
Cabin large mirror	•
Cabin large mirror, Heated	o
Basic / Premium / Deluxe seat	o
Seat belt, 2 inch 2 point / 3 inch 2 point / 3 inch 3 point	•
Climate control-HEPA filter	o
Radio with MP3/USB/Bluetooth	o
Front rain shield	o
Sun screen	o
Lower wiper	o
Sun shield, roof hatch	o
Foot rest, High mount	o
FOG (Falling Object Guard)	o
FOPS (Falling Object Protection Structure)	o
Safety net	o

STANDARD & OPTIONAL EQUIPMENT	
• = Standard / o = Optional	
Digging equipment	
Boom: 5.7 m monoblock, 5.76 m 2piece boom, 4.6m short	•
Arm: 2.2 m, 2.5 m, 2.9 m monoblock	•
Linkage	•
Manual centralized lubrication	•
Counterweight: 6 200 kg	•
Counterweight: 7 100 kg	o
Machine Controls	
Kinematic sensor package	•
Volvo Co-Pilot 2nd display, 12.8" touchable Full HD	•
Dig Assist, Start	o
Dig Assist, 2D	o
Dig Assist, In-Field Design	o
Dig Assist, Topcon 3D-MC	o
Dig Assist, Infield-Design Advanced	o
Dig Assist, On-Board Weighing	o
Dig Assist, Laser Receiver	o
Volvo Active Control	o
Dig Assist, Boundary Limit	o
Safety and security	
Travel alarm, beep / white noise	o
Flashing beacon, LED	o
Green light beacon	o
Rear view camera	•
Side view camera	•
HD VSV (Volvo Smart View)	•
HD VSV with obstacle detection	o
Provision, HD VSV with obstacle detection	o
Service and maintenance	
Swing out A/C condenser	•
Fuel filler pump	o
Quick Hydraulic Oil Fill connection	o
Jump start connector	o
Auto lubrication system	o
Tool kit	o
Spare parts kit	o

V O L V O