

Volvo EC220E in detail

Engine

The latest generation, Volvo engine Tier 4f / Stage IV 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	Volvo	D6J
Max power at	r/min	1 800
Net, ISO 9249/SAE J1349	kW	128
	hp	174
Gross, ISO 14396/SAE J1995	kW	129
	hp	175
Max torque	Nm	849
at engine speed	r/min	1 350
No. of cylinders		6
Displacement	l	5.7
Bore	mm	98
Stroke	mm	126

Electrical system

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

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	140
Alternator	V/A	28/80
Start motor	V - kW	24 - 5.5

Swing system

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

Max. slew speed	r/min	11.1
Max. slew torque	kNm	83

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	183
Max. travel speed (low)	km/h	3.5
Max. travel speed (high)	km/h	5.7
Gradeability	°	35

Undercarriage

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

EC220EL

Track shoe		2 x 49
Link pitch	mm	190
Shoe width, triple grouser	mm	500 / 600 / 700 / 800 / 900
Shoe width, triple grouser (HD)	mm	600
Shoe width, double grouser	mm	700
Shoe width, single grouser	mm	600
Bottom rollers		2 x 8
Top rollers		2 x 2

EC220ENL

Track shoe		2 x 49
Link pitch	mm	190
Shoe width, triple grouser	mm	500 / 600 / 700
Shoe width, triple grouser (HD)	mm	600
Shoe width, double grouser	mm	700
Bottom rollers		2 x 8
Top rollers		2 x 2

EC220EN

Track shoe		2 x 46
Link pitch	mm	190
Shoe width, triple grouser	mm	600 / 700 / 800 / 900
Shoe width, triple grouser (HD)	mm	600
Bottom rollers		2 x 7
Top rollers		2 x 2

EC220ENH

Track shoe		2 x 45
Link pitch	mm	203
Shoe width, triple grouser	mm	500 / 600 / 700
Bottom rollers		2 x 7
Top rollers		2 x 2

Hydraulic system

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

The following important functions are included in the system:

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

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

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

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

Power boost: All digging and lifting forces are increased.

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

Main pump: 2 x variable displacement axial piston pumps

Maximum flow	l/min	2 x 207
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Pilot pump: Gear pump

Maximum flow	l/min	1 x 18
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Relief value setting pressure

Implement	MPa	34.3 / 36.3
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Travel circuit	MPa	34
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Slew circuit	MPa	28
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Pilot circuit	MPa	4
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Travel: Variable displacement axial piston motor with mechanical brake

Slew: Fixed displacement axial piston motor with mechanical brake

Hydraulic Cylinders

Mono boom		2
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Bore x Stroke	ø x mm	125 x 1 235
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2 piece boom		1
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Bore x Stroke	ø x mm	160 x 1 070
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Arm		1
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Bore x Stroke	ø x mm	135 x 1 540
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Bucket		1
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Bore x Stroke	ø x mm	120 x 1 065
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Bucket for LR boom		1
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Bore x Stroke	ø x mm	100 x 865
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Service Refill

Fuel tank	l	320
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DEF/AdBlue® tank	l	27
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Hydraulic system, total	l	290
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Hydraulic tank	l	140
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Engine oil	l	25
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Engine coolant	l	35
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Slew reduction unit	l	6
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Travel reduction unit	l	2 x 5.8
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Cab

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

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

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

Sound Level

Sound level in cab according to ISO 6396

LpA (standard)	dB(A)	69
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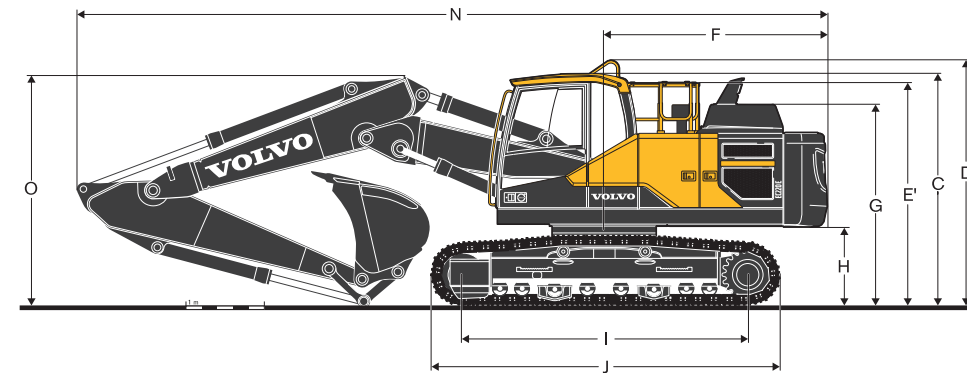
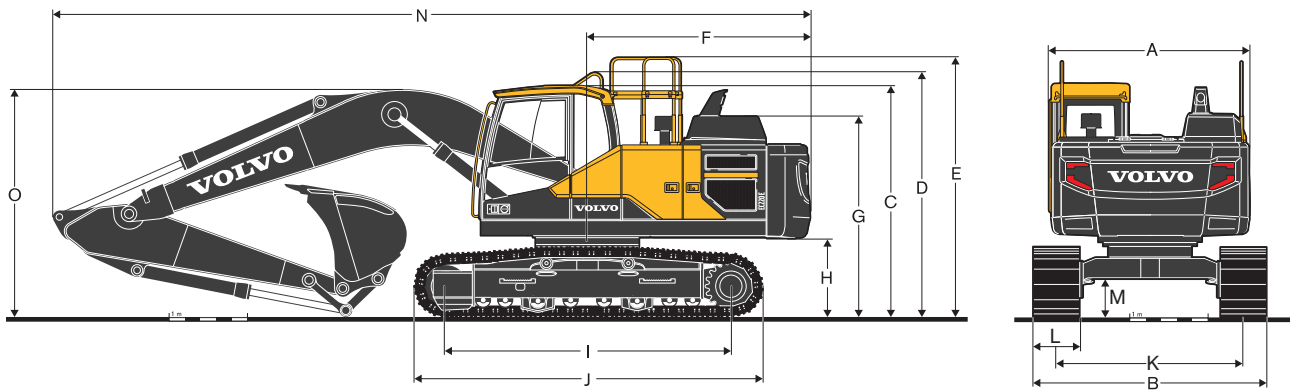
LpA (tropical)	dB(A)	70
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External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009

LwA (standard)	dB(A)	102
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LwA (tropical)	dB(A)	103
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Specifications

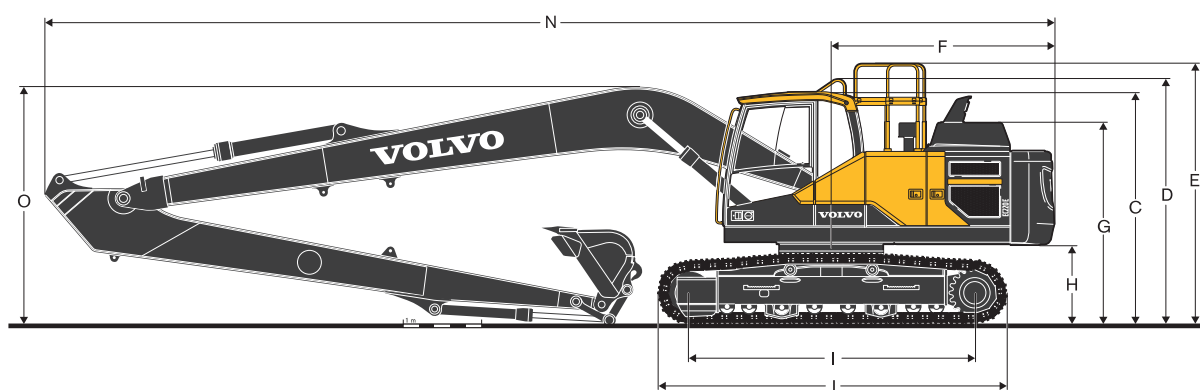


DIMENSIONS

Description	Unit	EC220EL				EC220ENL			
Boom	m	5.7 mono or 5.57 2-piece				5.7 mono or 5.57 2-piece			
Arm	m	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5
A. Overall width of upper structure	mm	2 540	2 540	2 540	2 540	2 540	2 540	2 540	2 540
B. Overall width	mm	2 990	2 990	2 990	2 990	2 540	2 540	2 540	2 540
C. Overall height of cab	mm	2 955	2 955	2 955	2 955	2 955	2 955	2 955	2 955
D. Overall height of handrail	mm	3 075	3 075	3 075	3 075	3 075	3 075	3 075	3 075
E. Overall height of guardrail(unfolded)	mm	3 270	3 270	3 270	3 270	3 270	3 270	3 270	3 270
E'. Overall height of guardrail(folded)	mm	2 790	2 790	2 790	2 790	2 790	2 790	2 790	2 790
F. Tail swing radius	mm	2 850	2 850	2 850	2 850	2 850	2 850	2 850	2 850
G. Overall height of engine hood	mm	2 600	2 600	2 600	2 600	2 600	2 600	2 600	2 600
H. Counterweight clearance *	mm	1 025	1 025	1 025	1 025	1 025	1 025	1 025	1 025
I. Tumbler length	mm	3 660	3 660	3 660	3 660	3 660	3 660	3 660	3 660
J. Track length	mm	4 460	4 460	4 460	4 460	4 460	4 460	4 460	4 460
K. Track gauge	mm	2 390	2 390	2 390	2 390	2 040	2 040	2 040	2 040
L. Shoe width	mm	600	600	600	600	500	500	500	500
M. Min. ground clearance *	mm	460	460	460	460	460	460	460	460
N. Overall length	mm	9 795	9 745	9 690	9 720	9 795	9 745	9 690	9 720
N1. Overall length	mm	9 660	9 610	9 570	9 560	9 660	9 610	9 570	9 560
O. Overall height of boom	mm	3 100	3 080	2 940	3 260	3 100	3 080	2 940	3 260
O1. Overall height of boom	mm	3 065	3 065	2 960	3 310	3 065	3 065	2 960	3 310

* Without shoe grouser.

1 2-piece boom

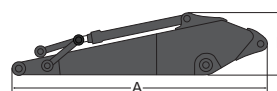
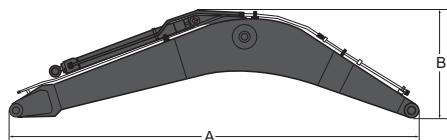


DIMENSIONS

Description	Unit	EC220EN				EC220ENH				EC220ELR
Boom	m	5.7 mono or 5.57 2-piece				5.7 mono or 5.57 2-piece				8.85
Arm	m	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5	6.25
A. Overall width of upper structure	mm	2 540	2 540	2 540	2 540	2 540	2 540	2 540	2 540	2 540
B. Overall width	mm	2 800	2 800	2 800	2 800	2 540	2 540	2 540	2 540	3 190
C. Overall height of cab	mm	2 955	2 955	2 955	2 955	3 020	3 020	3 020	3 020	2 955
D. Overall height of handrail	mm	3 075	3 075	3 075	3 075	3 140	3 140	3 140	3 140	3 075
E. Overall height of guardrail(unfolded)	mm	3 270	3 270	3 270	3 270	3 335	3 335	3 335	3 335	3 270
E'. Overall height of guardrail(folded)	mm	2 790	2 790	2 790	2 790	2 855	2 855	2 855	2 855	2 790
F. Tail swing radius	mm	2 850	2 850	2 850	2 850	2 850	2 850	2 850	2 850	2 850
G. Overall height of engine hood	mm	2 600	2 600	2 600	2 600	2 665	2 665	2 665	2 665	2 600
H. Counterweight clearance *	mm	1 025	1 025	1 025	1 025	1 090	1 090	1 090	1 090	1 025
I. Tumbler length	mm	3 370	3 370	3 370	3 370	3 510	3 510	3 510	3 510	3 660
J. Track length	mm	4 160	4 160	4 160	4 160	4 360	4 360	4 360	4 360	4 460
K. Track gauge	mm	2 200	2 200	2 200	2 200	2 040	2 040	2 040	2 040	2 390
L. Shoe width	mm	600	600	600	600	500	500	500	500	800
M. Min. ground clearance *	mm	460	460	460	460	490	490	490	490	460
N. Overall length	mm	9 795	9 745	9 690	9 720	9 795	9 745	9 690	9 720	12 880
N1. Overall length	mm	9 660	9 610	9 570	9 560	9 660	9 610	9 570	9 560	-
O. Overall height of boom	mm	3 100	3 080	2 940	3 260	3 100	3 080	2 940	3 260	3 055
O1. Overall height of boom	mm	3 065	3 065	2 960	3 310	3 065	3 065	2 960	3 310	-

* Without shoe grouser.

1 2-piece boom



DIMENSIONS

Boom						Arm							
Description	Unit	mono	mono	2-piece	Long-Reach	Description	Unit						Long-Reach
Boom	m	5.7	5.7 HD	5.57	8.85	Arm	m	2.0	2.5	2.9	2.9 HD	3.5	6.25
Length	mm	5 910	5 910	5 780	9 060	Length	mm	3 065	3 525	3 910	3 910	4 540	7 330
Height	mm	1 585	1 585	1 570	1 460	Height	mm	980	860	860	860	855	945
Width	mm	670	670	670	670	Width	mm	440	440	440	440	440	385
Weight	kg	2 006	2 151	2 585	2 510	Weight	kg	1 091	1 133	1 146	1 183	1 226	1 309

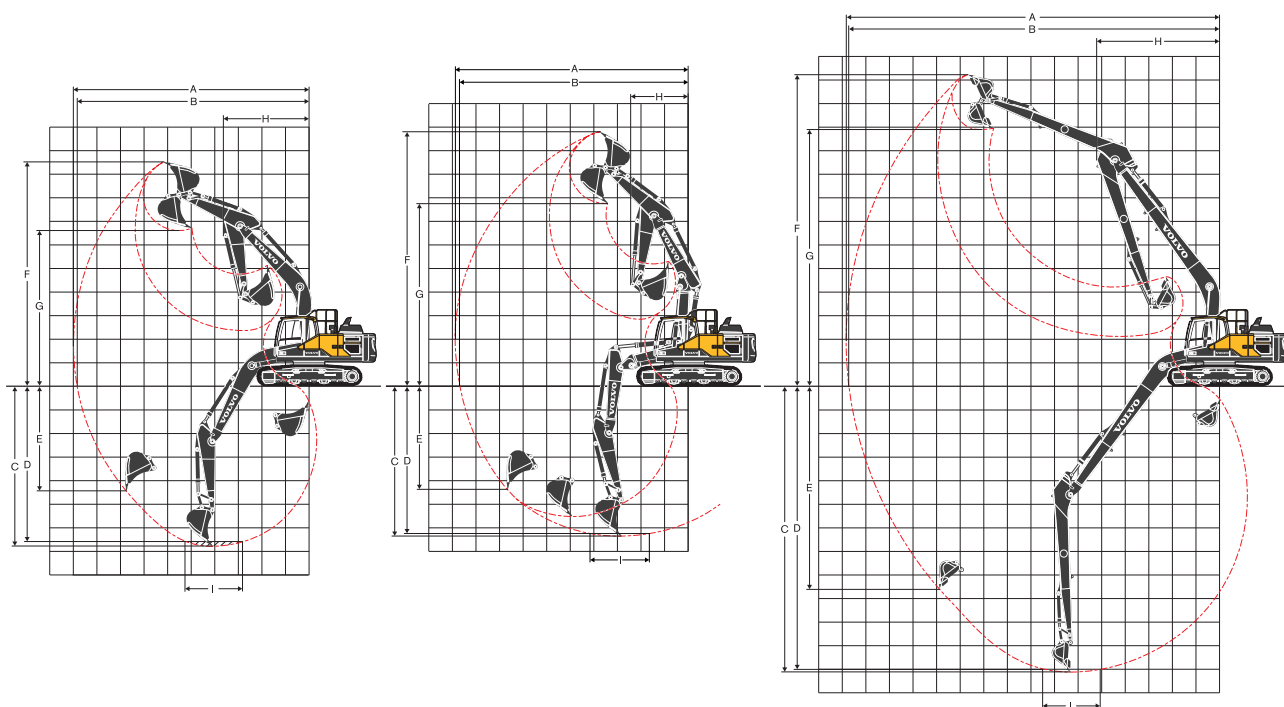
* Includes cylinder, piping and pin, excludes boom cylinder pin

* Includes cylinder, linkage and pin

Specifications

MACHINE WEIGHTS AND GROUND PRESSURE

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
		EC220EL					
		5.7m boom, 2.9m arm, 820kg / 0.92m3 bucket, 4 200kg counterweight			5.57m 2-piece, 2.9m arm, 820kg / 0.92m3 bucket, 4 200kg counterweight		
Triple grouser	500	500	21 440	53.0	2 890	22 130	54.9
	600	600	21 700	45.1	2 990	22 385	46.1
	700	700	22 160	39.2	3 090	22 840	40.2
	800	800	22 445	35.3	3 190	23 130	36.3
	900	900	22 740	31.4	3 290	23 420	32.4
Triple grouser HD	600	600	21 870	45.1	2 990	22 550	47.1
Double grouser	700	700	22 425	40.2	3 090	23 110	41.2
Single grouser	600	600	21 910	45.1	2 990	22 590	47.1
		EC220ENL					
		5.7m boom, 2.9m arm, 820kg / 0.92m3 bucket, 5 000kg counterweight			5.57m 2-piece, 2.9m arm, 820kg / 0.92m3 bucket, 5 000kg counterweight		
Triple grouser	500	22 150	54.9	2 540	22 840	56.9	2 540
	600	22 410	46.1	2 640	23 100	48.0	2 640
	700	22 870	40.2	2 740	23 560	42.2	2 740
Triple grouser HD	600	22 580	47.1	2 640	23 265	48.0	2 640
Double grouser	700	23 140	41.2	2 740	23 820	42.2	2 740
		EC220EN					
		5.7m boom, 2.9m arm, 820kg / 0.92m3 bucket, 4 200kg counterweight			5.57m 2-piece, 2.9m arm, 820kg / 0.92m3 bucket, 4 200kg counterweight		
Triple grouser	600	21 280	48.0	2 800	21 960	49.0	2 800
	700	21 710	41.2	2 900	22 395	43.1	2 900
	800	21 980	37.3	3 000	22 660	38.2	3 000
	900	22 220	33.3	3 100	22 900	34.3	3 100
Triple grouser HD	600	21 440	48.0	2 800	22 120	50.0	2 800
		EC220ENH					
		5.7m boom, 2.9m arm, 820kg / 0.92m3 bucket, 5 000kg counterweight			5.57m 2-piece, 2.9m arm, 820kg / 0.92m3 bucket, 5 000kg counterweight		
Triple grouser	500	23 270	62.8	2 540	23 960	64.7	2 540
	600	23 590	53.0	2 640	24 270	53.9	2 640
	700	24 110	46.1	2 740	24 790	48.0	2 740
		EC220ELR					
		8.85m boom, 6.25m arm, 452kg / 0.52m3 bucket, 5 000kg counterweight					
Triple grouser	800	23 690	37.3	3 190			
	900	23 990	33.3	3 290			



WORKING RANGES

Description	Unit	EC220EL/EC220ENL/EC220EN								EC220ELR
Boom	m	5.7 mono				5.57 2-piece				8.85
Arm	m	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5	6.25
A. Max. digging reach	mm	9 090	9 550	9 930	10 390	8 980	9 450	9 840	10 310	15 800
B. Max. digging reach on ground	mm	8 910	9 380	9 770	10 240	8 800	9 280	9 670	10 150	15 700
C. Max. digging depth	mm	5 830	6 330	6 730	7 330	5 410	5 900	6 300	6 850	12 100
D. Max. digging depth (2.44 m level)	mm	5 560	6 100	6 540	7 130	5 290	5 790	6 200	6 750	12 000
E. Max. vertical wall digging depth	mm	4 880	5 620	6 090	6 470	4 390	4 990	5 410	5 930	11 290
F. Max. cutting height	mm	8 940	9 220	9 460	9 460	10 010	10 380	10 710	10 920	13 300
G. Max. dumping height	mm	6 190	6 430	6 650	6 700	7 100	7 460	7 780	8 010	10 950
H. Min. front swing radius	mm	3 790	3 670	3 640	3 660	2 890	2 740	2 470	2 730	5 200

Description	Unit		EC220ENH							
Boom	m	-	5.7 mono				5.57 2-piece			
Arm	m	-	2.0	2.5	2.9	3.5	2.0	2.5	2.9	3.5
A. Max. digging reach	mm	-	9 090	9 550	9 930	10 390	8 980	9 450	9 840	10 310
B. Max. digging reach on ground	mm	-	8 910	9 380	9 770	10 240	8 800	9 280	9 670	10 150
C. Max. digging depth	mm	-	5 760	6 260	6 660	7 260	5 340	5 830	6 230	6 780
D. Max. digging depth (2.44 m level)	mm	-	5 490	6 030	6 470	7 060	5 220	5 720	6 130	6 680
E. Max. vertical wall digging depth	mm	-	4 810	5 550	6 020	6 400	4 320	4 920	5 340	5 860
F. Max. cutting height	mm	-	9 010	9 290	9 530	9 530	10 080	10 450	10 780	10 990
G. Max. dumping height	mm	-	6 260	6 500	6 720	6 770	7 170	7 530	7 850	8 080
H. Min. front swing radius	mm	-	3 790	3 670	3 640	3 660	2 890	2 740	2 470	2 730

DIGGING FORCES WITH DIRECT FIT BUCKET

Bucket radius			mm	1 528	1 528	1 528	1 528	1 528	1 528	1 528	1 528	1 250
Breakout force - bucket	Normal	SAE J1179	kN	146	125	125	125	146	125	125	125	68
	Power boost	SAE J1179	kN	154	132	132	132	154	132	132	132	-
	Normal	ISO 6015	kN	165	141	141	141	165	141	141	141	77
	Power boost	ISO 6015	kN	174	149	149	149	174	149	149	149	-
Tearout force - dipper arm	Normal	SAE J1179	kN	144	117	101	92	144	117	101	92	44
	Power boost	SAE J1179	kN	153	124	107	97	153	124	107	97	-
	Normal	ISO 6015	kN	149	121	104	94	149	121	104	94	45
	Power boost	ISO 6015	kN	158	128	110	99	158	128	110	99	-
Rotation angle, bucket			°	166	175	175	175	175	175	175	175	178

Specifications

BUCKET SELECTION GUIDE

Bucket type		Capacity	Cutting width	Weight	Teeth	EC220EL							
						5.7m Boom				5.57m 2-piece			
						600mm shoe, 4 200kg counterweight				600mm shoe, 4 200kg counterweight			
						L	mm	kg	EA	2.0m	2.5m	2.9m	3.5m
Direct fit Buckets	General purpose	480	600	623	3	C	C	C	C	C	C	C	C
		630	800	703	4	C	C	C	C	C	C	C	C
		750	900	749	4	C	C	C	C	C	C	C	C
		920	1 050	819	4	C	C	C	C	C	C	C	C
		1 090	1 200	908	5	C	C	C	C	C	C	C	C
		1 270	1 350	995	5	C	C	C	B	C	C	C	B
		1 440	1 500	1 085	6	C	C	B	A	C	C	B	A
Bucket type		Capacity	Cutting width	Weight	Teeth	EC220ENL							
						5.7m Boom				5.57m 2-piece			
						600mm shoe, 5 000kg counterweight				600mm shoe, 5 000kg counterweight			
						L	mm	kg	EA	2.0m	2.5m	2.9m	3.5m
Direct fit Buckets	General purpose	480	600	623	3	C	C	C	C	C	C	C	C
		630	800	703	4	C	C	C	C	C	C	C	C
		750	900	749	4	C	C	C	C	C	C	C	C
		920	1 050	819	4	C	C	C	C	C	C	C	C
		1 090	1 200	908	5	C	C	C	C	C	C	C	C
		1 270	1 350	995	5	C	C	C	C	C	C	C	C
		1 440	1 500	1 085	6	C	C	C	B	C	C	C	B
Bucket type		Capacity	Cutting width	Weight	Teeth	EC220EN							
						5.7m Boom				5.57m 2-piece			
						600mm shoe, 4 200kg counterweight				600mm shoe, 4 200kg counterweight			
						L	mm	kg	EA	2.0m	2.5m	2.9m	3.5m
Direct fit Buckets	General purpose	480	600	623	3	C	C	C	C	C	C	C	C
		630	800	703	4	C	C	C	C	C	C	C	C
		750	900	749	4	C	C	C	C	C	C	C	C
		920	1 050	819	4	C	C	C	C	C	C	C	C
		1 090	1 200	908	5	C	C	C	C	C	C	C	C
		1 270	1 350	995	5	C	C	C	B	C	C	C	B
		1 440	1 500	1 085	6	C	C	B	A	C	C	B	A
Bucket type		Capacity	Cutting width	Weight	Teeth	EC220ENH							
						5.7m Boom				5.57m 2-piece			
						600mm shoe, 5 000kg counterweight				600mm shoe, 5 000kg counterweight			
						L	mm	kg	EA	2.0m	2.5m	2.9m	3.5m
Direct fit Buckets	General purpose	480	600	623	3	C	C	C	C	C	C	C	C
		630	800	703	4	C	C	C	C	C	C	C	C
		750	900	749	4	C	C	C	C	C	C	C	C
		920	1 050	819	4	C	C	C	C	C	C	C	C
		1 090	1 200	908	5	C	C	C	C	C	C	C	C
		1 270	1 350	995	5	C	C	C	C	C	C	C	C
		1 440	1 500	1 085	6	C	C	C	B	C	C	C	B

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/m ³	Coal, Caliche, Shale
B	1 400~1 600 kg/m ³	Wet earth and clay, Limestone, Sandstone
C	1 700~1 800 kg/m ³	Granite, Wet sand, Well blasted rock
D	1 900 kg/m ³ ~	Wet mud, Iron ore

LIFTING CAPACITY EC220EL

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		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	Along UC	Across UC	m
Boom: 5.7m Arm: 2.5m Shoe: 600mm CWT: 4 200kg	7.5 m kg													*5 670	*5 670	5.6
	6.0 m kg							*5 500	*5 500					*5 600	4 550	6.9
	4.5 m kg					*7 000	*7 000	*6 020	5 520	*5 680	3 890			*5 690	3 800	7.6
	3.0 m kg					*9 020	8 010	*6 910	5 280	5 830	3 800			5 290	3 450	8.0
	1.5 m kg					*10 780	7 530	*7 800	5 050	5 720	3 690			5 130	3 320	8.1
	0.0 m kg					*11 570	7 310	7 810	4 900	5 640	3 620			5 260	3 390	7.9
	-1.5 m kg			*10 840	*10 840	*11 480	7 280	7 760	4 850					5 780	3 700	7.4
	-3.0 m kg			*14 760	14 420	*10 560	7 390	*7 790	4 920					*7 010	4 470	6.5
	-4.5 m kg			*11 400	*11 400	*8 140	7 670							*7 150	6 690	5.0
Boom: 5.7m Arm: 2.9m Shoe: 600mm CWT: 4 200kg	7.5 m kg							*5 180	*5 180					*4 910	*4 910	6.2
	6.0 m kg							*5 080	*5 080					*4 580	4 150	7.3
	4.5 m kg							*5 660	5 600	*5 350	3 940			*4 520	3 530	8.0
	3.0 m kg					*8 440	8 160	*6 590	5 350	*5 750	3 840			*4 640	3 230	8.4
	1.5 m kg					*10 370	7 640	*7 570	5 100	5 740	3 710			4 800	3 110	8.5
	0.0 m kg			*5 420	*5 420	*11 430	7 350	7 840	4 920	5 640	3 620			4 910	3 170	8.3
	-1.5 m kg	*6 270	*6 270	*10 320	*10 320	*11 590	7 280	7 750	4 840	5 610	3 590			5 330	3 430	7.8
	-3.0 m kg	*11 380	*11 380	*15 660	14 300	*10 930	7 340	7 790	4 880					6 320	4 040	6.9
	-4.5 m kg			*12 740	*12 740	*9 050	7 560							*6 920	5 600	5.6
Boom: 5.7m Arm: 3.5m Shoe: 600mm CWT: 4 200kg	7.5 m kg													*4 900	4 370	7.1
	6.0 m kg									*4 610	4 050			*4 850	3 500	8.1
	4.5 m kg							*4 860	*4 860	*4 750	3 980			4 670	3 050	8.8
	3.0 m kg							*5 740	5 400	*5 170	3 840	4 410	2 860	4 340	2 810	9.1
	1.5 m kg							*6 720	5 110	*5 680	3 700	4 350	2 800	4 220	2 720	9.2
	0.0 m kg							*7 520	4 880	5 600	3 570			4 300	2 760	9.0
	-1.5 m kg					*10 750	7 160	7 670	4 760	5 530	3 510			4 610	2 950	8.6
	-3.0 m kg			*15 300	13 960	*10 470	7 170	7 660	4 750	5 550	3 530			5 280	3 370	7.8
	-4.5 m kg	*16 720	*16 720	*13 020	*13 020	*9 260	7 330	*6 830	4 880					*5 830	4 320	6.6
Boom: 5.57m 2-piece Arm: 2.0m Shoe: 600mm CWT: 4 200kg	7.5 m kg					*8 610	*8 610							*8 490	8 090	4.8
	6.0 m kg					*8 600	*8 600	*7 490	5 530					*7 420	5 260	6.2
	4.5 m kg					*9 600	8 430	*7 690	5 400					6 560	4 220	7.0
	3.0 m kg					*10 920	7 780	*8 160	5 150					5 870	3 760	7.4
	1.5 m kg							7 910	4 920	5 680	3 610			5 670	3 600	7.5
	0.0 m kg					*10 900	7 160	7 760	4 790					5 860	3 700	7.3
	-1.5 m kg					*9 390	7 190	*7 140	4 800					*5 910	4 140	6.7
	-3.0 m kg					*6 710	*6 710									5.7
Boom: 5.57m 2-piece Arm: 2.5m Shoe: 600mm CWT: 4 200kg	7.5 m kg					*7 840	*7 840							*6 800	6 530	5.5
	6.0 m kg					*8 000	*8 000	*7 020	5 660					*6 230	4 630	6.7
	4.5 m kg			*12 730	*12 730	*9 040	8 630	*7 360	5 500					5 920	3 830	7.5
	3.0 m kg					*10 490	7 990	*7 930	5 230	5 820	3 730			5 370	3 450	7.9
	1.5 m kg					*11 420	7 440	7 970	4 980	5 690	3 620			5 190	3 310	8.0
	0.0 m kg					*11 250	7 190	7 780	4 810	5 610	3 550			5 340	3 380	7.8
	-1.5 m kg			*11 490	*11 490	*10 080	7 160	*7 590	4 770					*5 700	3 720	7.3
	-3.0 m kg					*7 830	7 290	*5 670	4 870					*5 010	4 540	6.3
Boom: 5.57m 2-piece Arm: 2.9m Shoe: 600mm CWT: 4 200kg	9.0 m kg													*6 130	*6 130	4.0
	7.5 m kg					*7 030	*7 030	*5 140	*5 140					*4 940	*4 940	6.0
	6.0 m kg					*7 080	*7 080	*6 680	5 760					*4 560	4 210	7.2
	4.5 m kg			*9 140	*9 140	*8 560	*8 560	*7 090	5 590	5 990	3 890			*4 470	3 550	7.9
	3.0 m kg					*10 090	8 160	*7 720	5 310	5 870	3 780			*4 570	3 220	8.3
	1.5 m kg					*11 260	7 560	8 030	5 030	5 720	3 650			*4 850	3 100	8.4
	0.0 m kg			*5 940	*5 940	*11 410	7 240	7 810	4 840	5 620	3 550			4 970	3 160	8.2
	-1.5 m kg			*10 850	*10 850	*10 530	7 150	7 720	4 760	5 600	3 530			5 420	3 430	7.7
	-3.0 m kg			*10 990	*10 990	*8 600	7 240	*6 370	4 810					*4 980	4 080	6.8

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 EC220ENL

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		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	Along UC	Across UC	m
Boom : 5.7m HD Arm : 2.0m ME Shoe : 500mm CWT : 5 000kg	7.5 m kg	-	-	-	-	-	-	-	-	-	-	-	-	*6 270	*6 270	4.9 m
	6.0 m kg	-	-	-	-	-	-	*6 020	5 140	-	-	-	-	*6 060	4 730	6.3 m
	4.5 m kg	-	-	-	-	*7 650	7 640	*6 410	5 000	-	-	-	-	*6 100	3 850	7.1 m
	3.0 m kg	-	-	-	-	*9 620	7 050	*7 210	4 760	6 130	3 450	-	-	6 110	3 440	7.5 m
	1.5 m kg	-	-	-	-	-	-	*7 980	4 550	6 030	3 360	-	-	5 900	3 300	7.6 m
	0.0 m kg	-	-	-	-	*11 520	6 510	8 240	4 430	-	-	-	-	6 100	3 380	7.4 m
	-1.5 m kg	-	-	-	-	*11 130	6 530	8 230	4 420	-	-	-	-	6 810	3 740	6.9 m
	-3.0 m kg	-	-	*13 280	12 560	*9 870	6 690	-	-	-	-	-	-	*7 320	4 690	5.9 m
Boom : 5.7m HD Arm : 2.5m HD Shoe : 500mm CWT : 5 000kg	7.5 m kg	-	-	-	-	-	-	-	-	-	-	-	-	*5 640	*5 640	5.6 m
	6.0 m kg	-	-	-	-	-	-	*5 470	5 260	-	-	-	-	*5 570	4 210	6.9 m
	4.5 m kg	-	-	-	-	*6 960	*6 960	*5 990	5 100	*5 640	3 590	-	-	*5 650	3 520	7.6 m
	3.0 m kg	-	-	-	-	*8 960	7 260	*6 860	4 850	*5 950	3 500	-	-	5 610	3 180	8.0 m
	1.5 m kg	-	-	-	-	*10 700	6 780	*7 750	4 620	6 070	3 400	-	-	5 440	3 060	8.1 m
	0.0 m kg	-	-	-	-	*11 480	6 560	8 280	4 460	5 980	3 320	-	-	5 590	3 110	7.9 m
	-1.5 m kg	-	-	*10 840	*10 840	*11 390	6 530	8 230	4 420	-	-	-	-	6 140	3 400	7.4 m
	-3.0 m kg	-	-	*14 640	12 430	*10 480	6 640	*7 730	4 490	-	-	-	-	*6 950	4 100	6.5 m
Boom : 5.7m HD Arm : 2.9m GP Shoe : 500mm CWT : 5 000kg	7.5 m kg	-	-	-	-	-	-	*5 150	*5 150	-	-	-	-	*4 910	*4 910	6.2 m
	6.0 m kg	-	-	-	-	-	-	*5 050	*5 050	-	-	-	-	*4 580	3 850	7.3 m
	4.5 m kg	-	-	-	-	-	-	*5 630	5 170	*5 310	3 650	-	-	*4 520	3 270	8.0 m
	3.0 m kg	-	-	-	-	*8 390	7 410	*6 550	4 920	*5 710	3 540	-	-	*4 640	2 980	8.4 m
	1.5 m kg	-	-	-	-	*10 300	6 890	*7 510	4 670	6 100	3 420	-	-	*4 950	2 870	8.5 m
	0.0 m kg	-	-	*5 420	*5 420	*11 340	6 610	*8 210	4 490	5 990	3 330	-	-	5 210	2 910	8.3 m
	-1.5 m kg	*6 270	*6 270	*10 320	*10 320	*11 500	6 530	8 220	4 410	5 960	3 300	-	-	5 660	3 150	7.8 m
	-3.0 m kg	*11 380	*11 380	*15 530	12 320	*10 840	6 590	*8 020	4 450	-	-	-	-	*6 600	3 700	6.9 m
Boom : 5.7m HD Arm : 2.9m HD Shoe : 500mm CWT : 5 000kg	-4.5 m kg	-	-	*12 620	*12 620	*8 970	6 810	-	-	-	-	-	-	*6 860	5 110	5.6 m
	7.5 m kg	-	-	-	-	-	-	*5 130	*5 130	-	-	-	-	*4 900	*4 900	6.2 m
	6.0 m kg	-	-	-	-	-	-	*5 030	*5 030	-	-	-	-	*4 570	3 830	7.3 m
	4.5 m kg	-	-	-	-	-	-	*5 600	5 150	*5 280	3 630	-	-	*4 510	3 250	8.0 m
	3.0 m kg	-	-	-	-	*8 350	7 380	*6 510	4 890	*5 680	3 520	-	-	*4 630	2 960	8.4 m
	1.5 m kg	-	-	-	-	*10 250	6 850	*7 470	4 640	6 070	3 390	-	-	*4 940	2 840	8.5 m
	0.0 m kg	-	-	*5 410	*5 410	*11 290	6 560	*8 170	4 450	5 960	3 300	-	-	5 190	2 890	8.3 m
	-1.5 m kg	*6 260	*6 260	*10 310	*10 310	*11 450	6 480	8 190	4 380	5 930	3 270	-	-	5 630	3 120	7.8 m
Boom : 5.7m HD Arm : 3.5m GP Shoe : 500mm CWT : 5 000kg	-3.0 m kg	*11 370	*11 370	*15 470	12 260	*10 790	6 550	*7 980	4 410	-	-	-	-	*6 570	3 670	6.9 m
	-4.5 m kg	-	-	*12 570	*12 570	*8 930	6 770	-	-	-	-	-	-	*6 820	5 080	5.6 m
	7.5 m kg	-	-	-	-	-	-	-	-	-	-	-	-	*4 910	4 100	7.1 m
	6.0 m kg	-	-	-	-	-	-	-	-	*4 620	3 790	-	-	*4 860	3 280	8.1 m
	4.5 m kg	-	-	-	-	-	-	*4 880	*4 880	*4 770	3 730	-	-	*4 910	2 860	8.8 m
	3.0 m kg	-	-	-	-	-	-	*5 750	5 020	*5 180	3 590	4 730	2 680	4 650	2 640	9.1 m
	1.5 m kg	-	-	-	-	-	-	*6 730	4 730	*5 690	3 450	4 660	2 620	4 530	2 550	9.2 m
	0.0 m kg	-	-	-	-	-	-	*7 530	4 510	6 000	3 330	-	-	4 620	2 580	9.0 m
Boom : 5.7m HD Arm : 2.0m ME Shoe : 600mm CWT : 5 000kg	-1.5 m kg	-	-	-	-	*10 750	6 500	*7 940	4 390	5 920	3 260	-	-	4 940	2 750	8.6 m
	-3.0 m kg	-	-	*15 280	12 110	*10 470	6 500	*7 840	4 380	5 950	3 280	-	-	5 650	3 140	7.8 m
	-4.5 m kg	*16 740	*16 740	*13 000	12 410	*9 250	6 650	*6 830	4 500	-	-	-	-	*5 840	4 000	6.6 m
	7.5 m kg	-	-	-	-	-	-	-	-	-	-	-	-	*6 270	*6 270	4.9 m
	6.0 m kg	-	-	-	-	-	-	*6 020	5 190	-	-	-	-	*6 060	4 770	6.3 m
	4.5 m kg	-	-	-	-	*7 650	*7 650	*6 410	5 040	-	-	-	-	*6 100	3 880	7.1 m
	3.0 m kg	-	-	-	-	*9 620	7 110	*7 210	4 810	6 190	3 480	-	-	6 170	3 470	7.5 m
	1.5 m kg	-	-	-	-	-	-	*7 980	4 590	6 090	3 400	-	-	5 970	3 330	7.6 m
	0.0 m kg	-	-	-	-	*11 520	6 570	8 320	4 470	-	-	-	-	6 160	3 410	7.4 m
	-1.5 m kg	-	-	-	-	*11 130	6 600	*8 290	4 460	-	-	-	-	6 880	3 780	6.9 m
	-3.0 m kg	-	-	*13 280	12 670	*9 870	6 750	-	-	-	-	-	-	*7 320	4 730	5.9 m

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 EC220EN

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		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	Along UC	Across UC	m
Boom: 5.7m Arm: 2.5m Shoe: 600mm CWT: 4 200kg	7.5 m kg													*5 670	*5 670	5.6
	6.0 m kg							*5 500	5 130					*5 600	4 100	6.9
	4.5 m kg					*7 000	*7 000	*6 020	4 980	5 240	3 490			5 130	3 420	7.6
	3.0 m kg					*9 020	7 150	*6 910	4 740	5 140	3 410			4 670	3 090	8.0
	1.5 m kg					*10 780	6 680	6 980	4 510	5 030	3 300			4 510	2 970	8.1
	0.0 m kg					10 590	6 470	6 810	4 360	4 950	3 230			4 630	3 030	7.9
	-1.5 m kg			*10 840	*10 840	10 560	6 440	6 760	4 320					5 080	3 310	7.4
	-3.0 m kg			*14 760	12 500	*10 560	6 540	6 840	4 390					6 170	4 000	6.5
	-4.5 m kg			*11 400	*11 400	*8 140	6 820							*7 150	5 960	5.0
Boom: 5.7m Arm: 2.9m Shoe: 600mm CWT: 4 200kg	7.5 m kg							*5 180	*5 180					*4 910	*4 910	6.2
	6.0 m kg							*5 080	*5 080					*4 580	3 750	7.3
	4.5 m kg							*5 660	5 050	5 300	3 550			*4 520	3 180	8.0
	3.0 m kg					*8 440	7 290	*6 590	4 800	5 180	3 440			4 360	2 890	8.4
	1.5 m kg					*10 370	6 780	7 030	4 560	5 050	3 320			4 230	2 780	8.5
	0.0 m kg			*5 420	*5 420	10 640	6 510	6 840	4 390	4 960	3 230			4 320	2 830	8.3
	-1.5 m kg	*6 270	*6 270	*10 320	*10 320	10 560	6 430	6 760	4 310	4 920	3 210			4 680	3 060	7.8
	-3.0 m kg	*11 380	*11 380	*15 660	12 390	10 630	6 500	6 800	4 350					5 540	3 600	6.9
	-4.5 m kg			*12 740	*12 740	*9 050	6 710							*6 920	5 000	5.6
Boom: 5.7m Arm: 3.5m Shoe: 600mm CWT: 4 200kg	7.5 m kg													*4 940	3 980	7.1
	6.0 m kg									*4 650	3 690			4 740	3 180	8.1
	4.5 m kg							*4 910	*4 910	*4 800	3 620			4 160	2 770	8.8
	3.0 m kg							*5 790	4 900	*5 220	3 490	3 930	2 600	3 860	2 550	9.1
	1.5 m kg							*6 770	4 620	5 090	3 350	3 860	2 540	3 760	2 470	9.2
	0.0 m kg							6 870	4 410	4 960	3 230			3 820	2 500	9.0
	-1.5 m kg					10 520	6 400	6 740	4 290	4 890	3 170			4 090	2 670	8.6
	-3.0 m kg			*15 400	12 180	10 530	6 410	6 720	4 280	4 910	3 190			4 680	3 050	7.8
	-4.5 m kg	*16 740	*16 740	*13 110	12 480	*9 330	6 550	6 860	4 400					*5 890	3 900	6.6
Boom: 5.57m 2-piece Arm: 2.0m Shoe: 600mm CWT: 4 200kg	7.5 m kg					*8 600	8 040							*8 480	7 260	4.8
	6.0 m kg					*8 580	7 980	*7 470	4 960					7 160	4 710	6.2
	4.5 m kg					*9 580	7 520	7 400	4 830					5 750	3 770	7.0
	3.0 m kg					*10 890	6 890	7 120	4 590					5 140	3 340	7.4
	1.5 m kg							6 870	4 360	4 960	3 200			4 950	3 190	7.5
	0.0 m kg					10 460	6 280	6 730	4 230					5 110	3 280	7.3
	-1.5 m kg					*9 360	6 310	6 730	4 230					5 740	3 660	6.7
	-3.0 m kg					*6 690	6 500									5.7
	-3.0 m kg			*10 990	*10 990	*8 600	7 240	*6 370	4 810					*4 980	4 080	6.8
Boom: 5.57m 2-piece Arm: 2.5m Shoe: 600mm CWT: 4 200kg	7.5 m kg					*7 840	*7 840							*6 800	5 890	5.5
	6.0 m kg					*8 000	*8 000	*7 020	5 100					*6 230	4 160	6.7
	4.5 m kg			*12 730	*12 730	*9 040	7 740	*7 360	4 940					5 210	3 430	7.5
	3.0 m kg					*10 490	7 110	7 230	4 680	5 110	3 340			4 720	3 080	7.9
	1.5 m kg					10 820	6 580	6 950	4 430	4 990	3 230			4 560	2 950	8.0
	0.0 m kg					10 530	6 330	6 770	4 270	4 910	3 150			4 670	3 010	7.8
	-1.5 m kg			*11 490	*11 490	*10 080	6 310	6 720	4 220					5 150	3 300	7.3
	-3.0 m kg					*7 830	6 430	*5 670	4 330					*5 010	4 040	6.3
	-3.0 m kg													*6 130	*6 130	4.0
Boom: 5.57m 2-piece Arm: 2.9m Shoe: 600mm CWT: 4 200kg	7.5 m kg					*7 030	*7 030	*5 140	*5 140					*4 940	*4 940	6.0
	6.0 m kg					*7 080	*7 080	*6 680	5 200					*4 560	3 780	7.2
	4.5 m kg			*9 140	*9 140	*8 560	7 900	*7 090	5 030	5 280	3 490			*4 470	3 180	7.9
	3.0 m kg					*10 090	7 270	7 310	4 760	5 160	3 380			4 400	2 870	8.3
	1.5 m kg					10 960	6 700	7 010	4 490	5 020	3 250			4 260	2 760	8.4
	0.0 m kg			*5 940	*5 940	10 580	6 380	6 800	4 290	4 920	3 160			4 360	2 810	8.2
	-1.5 m kg			*10 850	*10 850	10 490	6 300	6 710	4 220	4 900	3 140			4 740	3 050	7.7
	-3.0 m kg			*10 990	*10 990	*8 600	6 380	*6 370	4 270					*4 980	3 630	6.8

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 EC220ENH

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		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	Along UC	Across UC	m
Boom: 5.7m Arm: 2.5m Shoe: 500mm CWT: 5 000kg	7.5 m kg													*5 670	*5 670	5.6
	6.0 m kg							*5 500	5 440					*5 600	4 380	6.9
	4.5 m kg					*7 000	*7 000	*6 020	5 290	*5 680	3 750			*5 690	3 670	7.6
	3.0 m kg					*9 020	7 550	*6 910	5 050	*5 990	3 660			5 530	3 330	8.0
	1.5 m kg					*10 780	7 090	*7 800	4 830	5 970	3 560			5 360	3 210	8.1
	0 m kg					*11 570	6 880	8 110	4 680	5 890	3 490			5 500	3 270	7.9
	-1.5 m kg			*10 840	*10 840	*11 480	6 860	8 060	4 640					6 040	3 570	7.4
	-3.0 m kg			*14 760	13 020	*10 560	6 950	*7 790	4 710					*7 010	4 290	6.5
	-4.5 m kg			*11 400	*11 400	*8 140	7 220							*7 150	6 330	5.0
Boom: 5.7m Arm: 2.9m Shoe: 500mm CWT: 5 000kg	7.5 m kg							*5 180	*5 180					*4 910	*4 910	6.2
	6.0 m kg							*5 080	*5 080					*4 580	4 000	7.3
	4.5 m kg							*5 660	5 360	*5 350	3 800			*4 520	3 420	8.0
	3.0 m kg					*8 440	7 690	*6 590	5 120	*5 750	3 700			*4 640	3 120	8.4
	1.5 m kg					*10 370	7 190	*7 570	4 870	6 000	3 580			*4 950	3 010	8.5
	0 m kg			*5 420	*5 420	*11 430	6 920	8 140	4 700	5 900	3 490			5 140	3 060	8.3
	-1.5 m kg	*6 270	*6 270	*10 320	*10 320	*11 590	6 850	8 060	4 630	5 860	3 460			5 580	3 300	7.8
	-3.0 m kg	*11 380	*11 380	*15 660	12 910	*10 930	6 910	*8 080	4 670					6 590	3 880	6.9
	-4.5 m kg			*12 740	*12 740	*9 050	7 120							*6 920	5 340	5.6
Boom: 5.7m Arm: 3.5m Shoe: 500mm CWT: 5 000kg	7.5 m kg													*4 940	4 250	7.1
	6.0 m kg									*4 650	3 940			*4 900	3 420	8.1
	4.5 m kg							*4 910	*4 910	*4 800	3 870			4 920	2 990	8.8
	3.0 m kg							*5 790	5 210	*5 220	3 750	4 660	2 810	4 590	2 760	9.1
	1.5 m kg							*6 770	4 930	*5 730	3 610	4 600	2 750	4 470	2 680	9.2
	0 m kg							*7 580	4 720	5 900	3 490			4 560	2 710	9.0
	-1.5 m kg					*10 830	6 820	*8 010	4 610	5 830	3 430			4 870	2 890	8.6
	-3.0 m kg			*15 400	12 700	*10 550	6 820	*7 900	4 600	5 850	3 450			5 570	3 300	7.8
	-4.5 m kg	*16 740	*16 740	*13 110	13 000	*9 330	6 970	*6 880	4 710					*5 890	4 190	6.6
Boom: 5.57m 2-piece Arm: 2.0m Shoe: 500mm CWT: 5 000kg	7.5 m kg					*8 600	8 410							*8 480	7 620	4.8
	6.0 m kg					*8 580	8 350	*7 470	5 270					*7 400	5 010	6.2
	4.5 m kg					*9 580	7 900	*7 670	5 140					6 800	4 030	7.0
	3.0 m kg					*10 890	7 280	*8 130	4 890					6 100	3 590	7.4
	1.5 m kg							8 180	4 670	5 900	3 450			5 900	3 440	7.5
	0 m kg					*10 870	6 690	8 040	4 550					6 090	3 530	7.3
	-1.5 m kg					*9 360	6 720	*7 120	4 550					*5 890	3 940	6.7
	-3.0 m kg					*6 690	*6 690									5.7
Boom: 5.57m 2-piece Arm: 2.5m Shoe: 500mm CWT: 5 000kg	7.5 m kg					*7 840	*7 840							*6 800	6 210	5.5
	6.0 m kg					*8 000	*8 000	*7 020	5 400					*6 230	4 430	6.7
	4.5 m kg			*12 730	*12 730	*9 040	8 110	*7 360	5 250					*6 120	3 680	7.5
	3.0 m kg					*10 490	7 500	*7 930	4 990	6 060	3 590			5 600	3 310	7.9
	1.5 m kg					*11 420	6 980	8 260	4 740	5 940	3 480			5 430	3 180	8.0
	0 m kg					*11 250	6 740	8 080	4 580	5 860	3 410			5 570	3 250	7.8
	-1.5 m kg			*11 490	*11 490	*10 080	6 710	*7 590	4 540					*5 700	3 560	7.3
	-3.0 m kg					*7 830	6 840	*5 670	4 640					*5 010	4 340	6.3
Boom: 5.57m 2-piece Arm: 2.9m Shoe: 500mm CWT: 5 000kg	9.0 m kg													*6 130	*6 130	4.0
	7.5 m kg					*7 030	*7 030	*5 140	*5 140					*4 940	*4 940	6.0
	6.0 m kg					*7 080	*7 080	*6 680	5 500					*4 560	4 040	7.2
	4.5 m kg			*9 140	*9 140	*8 560	8 280	*7 090	5 330	*6 230	3 740			*4 470	3 410	7.9
	3.0 m kg					*10 090	7 660	*7 720	5 060	6 110	3 630			*4 570	3 100	8.3
	1.5 m kg					*11 260	7 090	*8 260	4 800	5 970	3 500			*4 850	2 990	8.4
	0 m kg			*5 940	*5 940	*11 410	6 790	8 110	4 610	5 860	3 410			5 200	3 040	8.2
	-1.5 m kg			*10 850	*10 850	*10 530	6 700	*7 870	4 530	*5 790	3 390			*5 490	3 290	7.7
	-3.0 m kg			*10 990	*10 990	*8 600	6 790	*6 370	4 580					*4 980	3 900	6.8

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 EC220ELR

Lifting capacity at the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		0.0 m		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC
Boom: 8.85m Arm: 6.25m Shoe: 800mm CWT: 5 000kg	4.5 m	kg											*2 820	*2 820	*3 340	*3 340
	3.0 m	kg					*6 300	*6 300	*4 590	*4 590	*3 720	*3 720	*3 210	3 070	*3 790	3 710
	1.5 m	kg					*7 880	7 320	*5 580	5 020	*4 330	3 700	*3 600	2 850	*4 210	3 410
	0.0 m	kg			*2 480	*2 480	*5 610	*5 610	*6 360	4 570	*4 860	3 410	*3 970	2 650	*4 550	3 160
	-1.5 m	kg	*2 650	*2 650	*3 360	*3 360	*5 620	*5 620	*6 860	4 290	*5 250	3 200	4 140	2 500	*4 810	2 980
	-3.0 m	kg	*3 570	*3 570	*4 340	*4 340	*6 320	6 270	*7 110	4 160	5 210	3 070	4 030	2 400	4 790	2 870
	-4.5 m	kg	*4 530	*4 530	*5 410	*5 410	*7 370	6 290	*7 120	4 120	5 150	3 020	3 980	2 350	4 740	2 830
	-6.0 m	kg	*5 560	*5 560	*6 600	*6 600	*8 740	6 410	*6 920	4 160	5 160	3 030	3 980	2 350	4 750	2 830
	-7.5 m	kg	*6 670	*6 670	*7 960	*7 960	*8 470	6 590	*6 480	4 270	*5 170	3 100	4 040	2 410	*4 710	2 900
	-9.0 m	kg			*9 560	*9 560	*7 360	6 870	*5 710	4 450	*4 560	3 240	*3 640	2 540	*4 280	3 020
	-10.5 m	kg					*5 630	*5 630	*4 390	*4 390	*3 350	*3 350			*3 520	3 230
	Lifting hook related to ground level		10.0 m		12 m		13.5 m		Max. reach							
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m					
	12.0 m	kg							*870	*870	10.3					
	10.5 m	kg							*800	*800	11.6					
	9.0 m	kg			*1 450	*1 450			*760	*760	12.6					
	7.5 m	kg	*2 230	*2 230	*2 060	*2 060			*740	*740	13.4					
	6.0 m	kg	*2 390	*2 390	*2 330	2 070	*1 330	*1 330	*740	*740	13.9					
	4.5 m	kg	*2 610	2 530	*2 470	1 980	*1 810	1 560	*750	*750	14.3					
	3.0 m	kg	*2 870	2 390	*2 640	1 890	*2 160	1 500	*780	*780	14.5					
	1.5 m	kg	*3 140	2 240	*2 830	1 790	2 400	1 440	*820	*820	14.6					
	0.0 m	kg	*3 390	2 110	2 820	1 700	2 340	1 390	*880	*880	14.4					
	-1.5 m	kg	3 330	2 000	2 740	1 630	2 300	1 350	*970	*970	14.2					
	-3.0 m	kg	3 250	1 930	2 690	1 580	*1 670	1 320	*1 100	*1 100	13.7					
	-4.5 m	kg	3 210	1 890	2 670	1 570			*1 280	*1 280	13.1					
	-6.0 m	kg	3 220	1 900	*2 410	1 590			*1 560	1 550	12.3					
	-7.5 m	kg	3 290	1 970					*2 030	1 830	11.2					
	-9.0 m	kg							*3 020	2 320	9.7					
	-10.5 m	kg							*3 250	*3 250	7.6					

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