

VOLVO EXCAVATOR

EC330B LC



- **Engine power, gross:**
198 kW 265 hp
- **Operating weight:**
32.4 ~ 33.8 t
71,440 ~ 74,530 lb
- **Buckets (SAE)**
1,250 ~ 2,500 l
1.64 ~ 3.27 yd³
- Turbocharged VOLVO diesel engine with direct injection and charged air cooler meets EPA Tier 2 emission standards
- Contronics, advanced mode selection system and electronically controlled system
- 2 variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by "Automatic Sensing Work Mode".
- Cab
 - Ergonomic environment
 - Low sound level
 - Filtered air
- Hydraulic dampening mounts
- Fabric seat, with heater and air suspension
- Strong digging equipment, produced by robotic welding
- High-lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Auxiliary hydraulic valve as standard
- Prepared for a number of optional items

VOLVO



ENGINE

The engine is a turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EPA Tier 2 emission standards.

The engine has been developed especially for excavator use, providing good fuel economy, low noise levels and a long service life.

Air Filter: 3-stage, includes pre-cleaner

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 level.

Low-Emission Engine

Make	VOLVO	
Model	D10B EAE2	
Power output at	28 r/s	1,700 rpm
Net (ISO 9249/ DIN 6271)	184 kW	247 hp
Gross (SAE J1349)	198 kW	265 hp
Max. torque	1,255 N·m at 1,400 rpm	926 lb·ft at 1,400 rpm
No. of cylinders	6	
Displacement	9.6 l	586 cu.in
Bore	121 mm	4.75"
Stroke	140 mm	5.51"



ELECTRICAL SYSTEM

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

Contronics provides advanced monitoring of machine function and important diagnostic information.

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	200 Ah
Alternator	28 V / 55 A



SERVICE REFILL CAPACITIES

Fuel tank	565 l	149 gal
Hydraulic system, total	500 l	132 gal
Hydraulic tank	220 l	58 gal
Engine oil	39.5 l	10 gal
Engine coolant	58.7 l	16 gal
Swing reduction unit	6.0 l	1.6 gal
Travel reduction unit	2 x 5.5 l	2 x 1.5 gal



SWING SYSTEM

The superstructure is swung by the means of an axial piston motor and a planetary reduction gear. Automatic swing holding brake and anti-rebound valve are standard.

Max. swing speed 9.7 rpm



DRIVE

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

Max. drawbar pull (tractive effort)	256.9 kN	57,770 lb
Max. travel speed	3.3 / 4.5 km/h	2.1 / 2.8 mph
Gradeability	35°	70%



UNDERCARRIAGE

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

No. of track pads	2 x 48	
Link pitch	215.9 mm	8.5"
Shoe width, triple grouser	600/700/800(Std.)/900 mm	24"/28"/32"(Std.)/36"
Shoe width, double grouser	600 mm	24"
No. of bottom track roller	2 x 8	
No. of top roller	2 x 2	



HYDRAULIC SYSTEM

The hydraulic system, named "Automatic Sensing Work Mode", is designed for high-productivity, high-digging capacity, high-maneuvering precision and good fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provides optimum performance.

The following important functions are included in the system:

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

Boom priority: Gives priority to the boom operation for fast raising when loading or deep excavation.

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

Swing priority: Supplies priority to the swing operation for faster swing during 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

Type 2 x variable displacement axial piston pumps

Maximum flow . . . 2 x 280 l/min **2 x 74 gpm**

Pilot pump

Type Gear pump

Maximum flow . . . 1 x 25.5 l/min **6.7 gpm**

Hydraulic motors

Travel Variable displacement axial piston motors

Swing Fixed displacement axial piston motor with mechanical brake

Relief valve setting

Implement 31.4 / 34.3 Mpa **4,550/4,980 psi**

Travel circuit 34.3 Mpa **4,980 psi**

Swing circuit 25.5 Mpa **3,700 psi**

Pilot circuit 3.9 Mpa **570 psi**

Hydraulic cylinders

Boom 2

bore x stroke . . . \varnothing 150 x 1,530 mm
 \varnothing 5.9" x 60.2"

Arm 1

bore x stroke . . . \varnothing 175 x 1,700 mm
 \varnothing 6.9" x 66.9"

Bucket 1

bore x stroke . . . \varnothing 145 x 1,285 mm
 \varnothing 5.7" x 50.6"

ME bucket 1

bore x stroke . . . \varnothing 160 x 1,250 mm
 \varnothing 6.3" x 49.2"



CAB

The operators 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 a 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. The glass is stored in the door.

Integrated air conditioning and heating system:

The pressurized and filtered cab air is supplied by automatically controlled fan. The air is distributed via 13 vents.

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

Sound Level:

Sound level in cab

according to ISO 6396 LpA 73 dB(A)

External sound level

according to ISO 6395 LwA105 dB(A)

(Directive 2000/14/EC)



GROUND PRESSURE

- Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,460 kg, 3,220 lb bucket and 5,800 kg, 12,790 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	32,400 kg 71,440 lb	61.8 kPa 9.0 psi	3,190 mm 10' 6"
	700 mm 28"	33,040 kg 72,850 lb	53.9 kPa 7.8 psi	3,190 mm 10' 6"
	800 mm 32"	33,440 kg 73,740 lb	48.0 kPa 7.0 psi	3,390 mm 11' 1"
	900 mm 36"	33,820 kg 74,570 lb	43.1 kPa 6.3 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	32,940 kg 72,630 lb	62.8 kPa 9.1 psi	3,190 mm 10' 6"

- Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,460 kg, 3,220 lb bucket and 6,700 kg, 14,770 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	33,300 kg 73,430 lb	62.8 kPa 9.1 psi	3,190 mm 10' 6"
	700 mm 28"	33,940 kg 74,840 lb	54.9 kPa 8.0 psi	3,190 mm 10' 6"
	800 mm 32"	34,340 kg 75,720 lb	49.0 kPa 7.1 psi	3,390 mm 11' 1"
	900 mm 36"	34,720 kg 76,560 lb	44.1 kPa 6.4 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	33,840 kg 74,620 lb	63.7 kPa 9.2 psi	3,190 mm 10' 6"

MAX. PERMITTED BUCKETS

*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.*

- Max. permitted sizes for pin on buckets:
Counterweight 5,800 kg, 12,790 lb

Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	2,300, 3.01	2,200, 2.88	2,075, 2.71	1,800, 2.35
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,000, 2.62	1,925, 2.52	1,825, 2.39	1,575, 2.06
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,850, 2.42	1,775, 2.32	1,675, 2.19	1,450, 1.90
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,725, 2.26	1,650, 2.16	1,550, 2.03	1,350, 1.77

- Max. permitted sizes for hook on buckets:
Counterweight 5,800 kg, 12,790 lb

Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	2,175, 2.84	2,050, 2.68	1,950, 2.55	1,675, 2.19
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,900, 2.49	1,800, 2.35	1,700, 2.22	1,475, 1.93
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,750, 2.29	1,650, 2.16	1,575, 2.06	1,350, 1.77
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,625, 2.13	1,550, 2.03	1,450, 1.90	1,250, 1.64

- Max. permitted sizes for pin on buckets:
Counterweight 6,700 kg, 14,770 lb

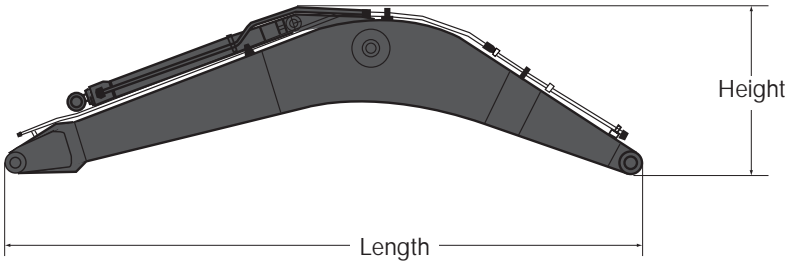
Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	2,500, 3.27	2,400, 3.14	2,275, 2.98	1,975, 2.58
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,200, 2.88	2,100, 2.75	1,975, 2.58	1,725, 2.26
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,025, 2.65	1,925, 2.52	1,825, 2.39	1,600, 2.09
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,875, 2.45	1,800, 2.35	1,700, 2.22	1,475, 1.93

- Max. permitted sizes for hook on buckets:
Counterweight 6,700 kg, 14,770 lb

Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	2,375, 3.11	2,275, 2.98	2,125, 2.78	1,850, 2.42
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,075, 2.71	1,975, 2.58	1,875, 2.45	1,625, 2.13
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,925, 2.52	1,825, 2.39	1,725, 2.26	1,500, 1.96
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,775, 2.32	1,700, 2.22	1,600, 2.09	1,375, 2.32

DIMENSIONS

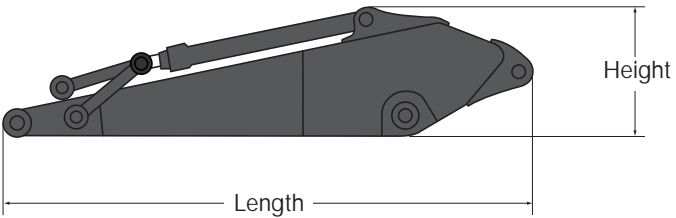
• Boom



Description	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"
Length	6,460 mm, 21' 2"	6,700 mm, 22' 0"
Height	1,740 mm, 5' 9"	1,800 mm, 5' 11"
Width	820 mm, 2' 8"	820 mm, 2' 8"
Weight	3,230 kg, 7,120 lb	3,010 kg, 6,640 lb

* Includes cylinder, pin and piping

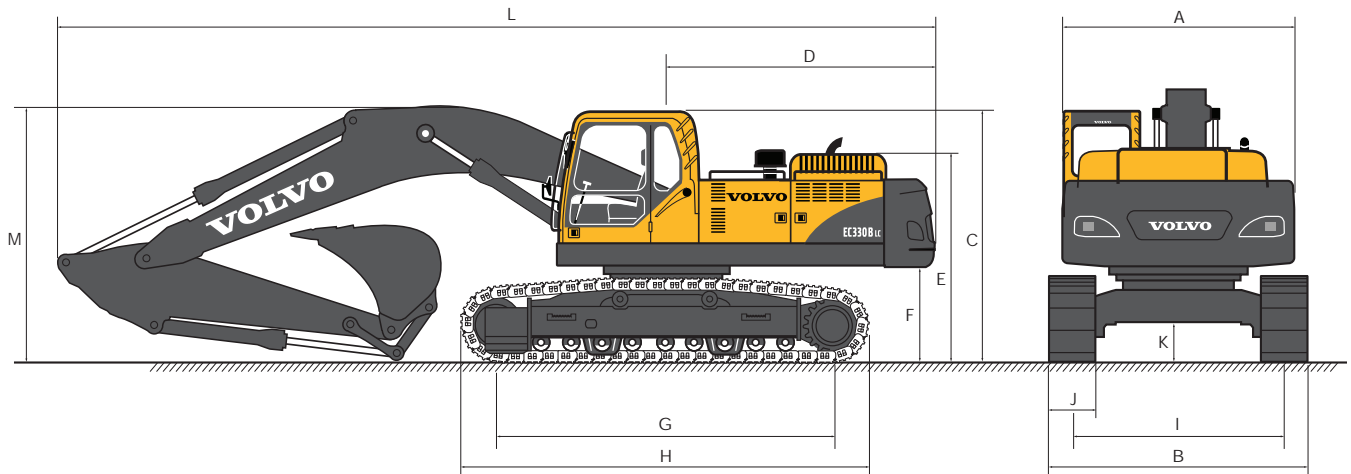
• Arm



Description	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
Length	3,780 mm, 12' 5"	4,360 mm, 14' 4"	5,080 mm, 16' 8"
Height	1,145 mm, 3' 9"	1,145 mm, 3' 9"	1,140 mm, 3' 9"
Width	560 mm, 1' 10"	560 mm, 1' 10"	560 mm, 1' 10"
Weight	1,975 kg, 4,350 lb	1,850 kg, 4,080 lb	2,165 kg, 4,770 lb

* Includes cylinder, piping and linkage

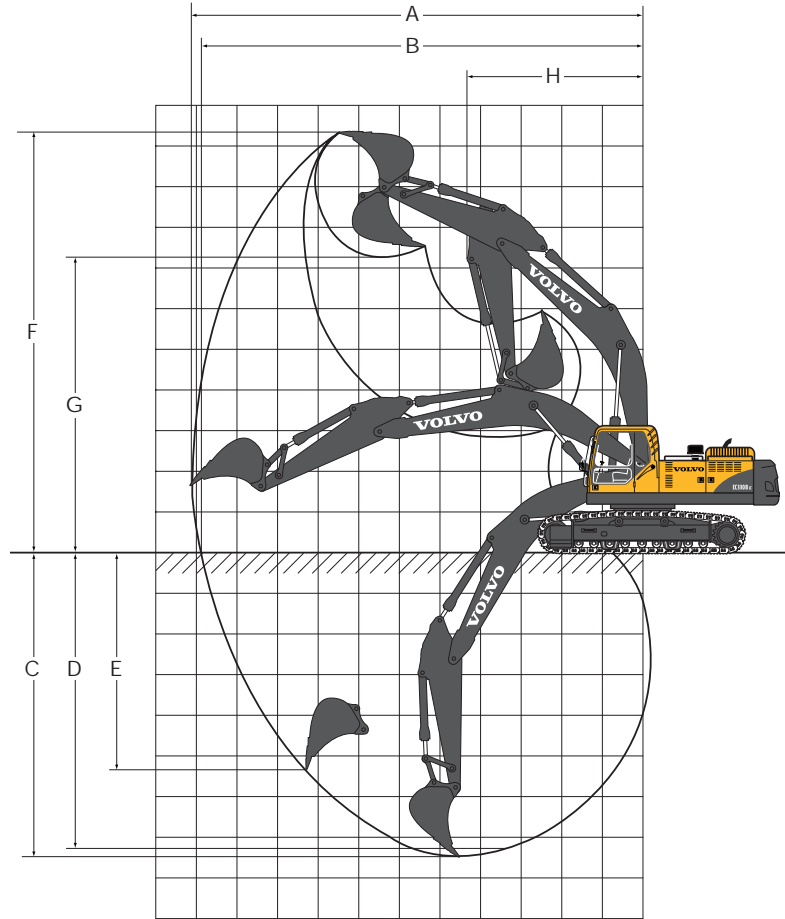
DIMENSIONS



Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
Arm					
A. Overall width of superstructure	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
B. Overall width	mm, ft-in	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"
C. Overall height of cab	mm, ft-in	3,190, 10' 6"	3,190, 10' 6"	3,190, 10' 6"	3,190, 10' 6"
D. Tail swing radius	mm, ft-in	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"
E. Overall height of engine hood	mm, ft-in	2,700, 8' 10"	2,700, 8' 10"	2,700, 8' 10"	2,700, 8' 10"
F. Counterweight clearance *	mm, ft-in	1,210, 4' 0"	1,210, 4' 0"	1,210, 4' 0"	1,210, 4' 0"
G. Tumbler length	mm, ft-in	4,020, 13' 2"	4,020, 13' 2"	4,020, 13' 2"	4,020, 13' 2"
H. Track length	mm, ft-in	4,962, 16' 3"	4,962, 16' 3"	4,962, 16' 3"	4,962, 16' 3"
I. Track gauge	mm, ft-in	2,590, 8' 6"	2,590, 8' 6"	2,590, 8' 6"	2,590, 8' 6"
J. Shoe width	mm, in	800, 32"	800, 32"	800, 32"	800, 32"
K. Min. ground clearance *	mm, ft-in	500, 1' 8"	500, 1' 8"	500, 1' 8"	500, 1' 8"
L. Overall length	mm, ft-in	10,910, 35' 10"	11,160, 36' 7"	11,070, 36' 4"	11,120, 36' 6"
M. Overall height of boom	mm, ft-in	3,700, 12' 2"	3,580, 11' 9"	3,350, 11' 0"	3,590, 11' 9"

* Without shoe grouser

WORKING RANGES & DIGGING FORCES



● Machine with pin on bucket:

Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
A. Max. digging reach	mm, ft-in	10,480, 34' 5"	10,540, 34' 7"	11,060, 36' 3"	11,700, 38' 5"
B. Max. digging reach on ground	mm, ft-in	10,250, 33' 8"	10,320, 33' 10"	10,850, 35' 7"	11,500, 37' 9"
C. Max. digging depth	mm, ft-in	6,720, 22' 1"	6,770, 22' 3"	7,370, 24' 2"	8,080, 26' 6"
D. Max. digging depth (8' level)	mm, ft-in	6,540, 21' 5"	6,570, 21' 7"	7,190, 23' 7"	7,930, 26' 0"
E. Max. vertical wall digging depth	mm, ft-in	4,880, 16' 0"	4,900, 16' 1"	5,290, 17' 4"	5,920, 19' 5"
F. Max. cutting height	mm, ft-in	10,070, 33' 0"	10,100, 33' 2"	10,260, 33' 8"	10,530, 34' 7"
G. Max. dumping height	mm, ft-in	6,830, 22' 5"	7,170, 23' 6"	7,360, 24' 2"	7,630, 25' 0"
H. Min. front swing radius	mm, ft-in	4,180, 13' 9"	4,390, 14' 5"	4,340, 14' 3"	4,320, 14' 2"



● Digging forces with pin on bucket

Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"			
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"	
Bucket tip radius	mm, in	1,810, 71"	1,623, 64"	1,623, 64"	1,623, 64"	
Breakout force – bucket (Normal / Power boost)	SAE	kN lb	208.0 / 228.0 46,970 / 51,380	192.0 / 209.0 43,220 / 47,190	192.0 / 209.0 43,220 / 47,190	192.0 / 209.0 43,220 / 47,190
Tearout force – arm (Normal / Power boost)	SAE	kN lb	182.0 / 200.0 41,020 / 44,980	190.0 / 207.0 42,780 / 46,750	157.0 / 172.0 35,500 / 38,810	137.0 / 150.0 30,870 / 33,740
Rotation angle, bucket	deg		164°	177°	177°	177°

LIFTING CAPACITY (At the arm end without bucket)

Note: For lifting capacity including bucket, simply subtract actual weight of the pin on bucket or the bucket with quick coupler from the following values.

EC330 B LC (Std. shoe 800 mm, 32", counterweight 5,800 kg, 12,790 lb)

 Across under-carriage  Along under-carriage	Lifting hook related to ground level	4.5 m, 15'		6.0 m, 20'		7.5 m, 25'		9.0 m, 30'		Max. reach		
		t	lb	t	lb	t	lb	t	lb	t	lb	t















Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'													*8.9	*19,670	7.2	16,310	7.0 / 22.79								
	6.0 20'					*10.8	*23,460	9.3	20,010	10.0	21,410	6.4	13,820			*8.6	*18,980	5.8	12,850	8.0 / 26.04						
	4.5 15'	*15.9	*34,150	13.7	29,640	*12.4	*26,800	8.8	19,060	9.8	21,010	6.3	13,450			7.9	17,390	5.0	11,120	8.6 / 28.02						
	3.0 10'	*20.1	*43,120	12.5	27,100	13.5	29,010	8.3	17,970	9.5	20,430	6.0	12,930			7.3	16,170	4.6	10,250	8.8 / 29.01						
	1.5 5'	*15.6	*38,070	11.9	25,640	13.0	28,000	7.9	17,090	9.2	19,910	5.8	12,460			7.2	15,840	4.5	9,970	8.9 / 29.10						
	0 0'	*20.1	44,570	11.7	25,250	12.8	27,450	7.7	16,610	9.1	19,570	5.6	12,160			7.4	16,350	4.6	10,240	8.6 / 28.29						
	-1.5 -5'	20.9	44,670	11.8	25,330	12.7	27,320	7.7	16,500	9.1	19,520	5.6	12,110			8.1	17,960	5.1	11,210	8.1 / 26.52						
	-3.0 -10'	*19.9	*43,020	12.0	25,750	12.8	27,610	7.8	16,750							9.7	21,620	6.0	13,430	7.2 / 23.56						
-4.5 -15'	*16.0	*34,250	12.4	26,670											*12.0	*26,490	8.5	19,120	5.8 / 18.82							
Boom Std. 6.45 m 21' 2" + Arm Std. 3.2 m 10' 6"	7.5 25'													*7.9	*16,010	6.8	14,480			*7.1	*15,760	6.4	14,430	7.7 / 25.05		
	6.0 20'													*8.1	*17,650	6.7	14,400			*6.9	*15,280	5.3	11,780	8.6 / 28.04		
	4.5 15'	*12.3	*26,390	*12.3	*26,390	*9.9	*21,430	9.2	19,750	*8.7	*18,990	6.5	13,950			*7.0	*15,400	4.7	10,370	9.1 / 29.89						
	3.0 10'	*15.9	*34,110	13.1	28,220	*11.6	*25,090	8.6	18,580	*9.6	*20,870	6.2	13,370	7.3	15,720	4.7	10,070	6.8	15,060	4.4	9,640	9.4 / 30.81				
	1.5 5'	*18.5	*39,890	12.2	26,300	*13.1	*28,380	8.1	17,550	9.4	20,290	5.9	12,810	7.2	15,430	4.6	9,800	6.7	14,760	4.3	9,380	9.5 / 30.89				
	0 0'	*19.4	*42,110	11.8	25,490	12.9	27,780	7.8	16,910	9.2	19,850	5.8	12,410	7.1	15,240	4.5	9,630	6.9	15,140	4.3	9,560	9.2 / 30.14				
	-1.5 -5'	*19.2	*41,640	11.8	25,350	12.8	27,480	7.7	16,650	9.1	19,660	5.7	12,250			7.4	16,360	4.7	10,300	8.7 / 28.49						
	-3.0 -10'	*18.0	*38,910	11.9	25,630	12.8	27,610	7.8	16,760	9.2	19,820	5.7	12,390			8.6	19,030	5.4	11,940	7.9 / 25.76						
-4.5 -15'	*15.4	*33,070	12.2	26,360	*11.5	*24,590	8.0	17,310							*10.0	*22,040	7.0	15,710	6.6 / 21.52							
Boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'													*8.0	*17,720	6.9	14,860			*5.7	*12,520	5.5	12,310	8.5 / 27.64		
	6.0 20'													*8.4	*18,350	6.8	14,610	*7.0	*13,560	4.9	10,520	*5.5	*12,180	4.6	10,270	9.3 / 30.36
	4.5 15'					*10.2	*22,170	9.3	20,100	*9.2	*20,130	6.5	14,050	7.5	16,050	4.8	10,320	*5.6	*12,240	4.1	9,110	9.8 / 32.08				
	3.0 10'	*16.3	*34,950	13.4	28,850	*12.3	*26,600	8.7	18,720	9.7	20,940	6.2	13,330	7.3	15,660	4.6	9,960	*5.8	*12,680	3.8	8,480	10.0 / 32.94				
	1.5 5'	*19.9	*42,860	12.2	26,280	13.2	28,480	8.1	17,420	9.4	20,150	5.9	12,620	7.1	15,250	4.5	9,580	6.0	13,140	3.7	8,220	10.1 / 33.02				
	0 0'	20.7	44,250	11.2	24,870	12.8	27,430	7.7	16,510	9.1	19,540	5.6	12,070	6.9	14,920	4.3	9,280	6.1	13,380	3.8	8,320	9.8 / 32.31				
	-1.5 -5'	20.4	43,650	11.3	24,370	12.5	26,890	7.4	16,040	8.9	19,200	5.5	11,760	6.9	14,780	4.2	9,150	6.5	14,270	4.0	8,850	9.4 / 30.78				
	-3.0 -10'	20.4	43,760	11.4	24,470	12.5	26,820	7.4	15,980	8.9	19,180	5.4	11,740			7.3	16,170	4.5	10,010	8.6 / 28.27						
-4.5 -15'	*19.4	*41,790	11.6	25,050	12.7	27,240	7.6	16,350							9.0	20,220	5.6	12,480	7.5 / 24.50							

- Notes:
- Machine in "Fine Mode-F" (Power Boost), for lifting capacities.
 - The above loads are in compliance with SAE and ISO Hydraulic Excavator Lifting Capacity Standards.
 - Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 - Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
 - Contains metric and U.S. measurement charts.

LIFTING CAPACITY (At the arm end without bucket)

Note: For lifting capacity including bucket, simply subtract actual weight of the pin on bucket or the bucket with quick coupler from the following values.

EC330 B LC (Std. shoe 800 mm, 32", counterweight 6,700 kg, 14,770 lb)

 Across under-carriage  Along under-carriage	Lifting hook related to ground level	4.5 m, 15'		6.0 m, 20'		7.5 m, 25'		9.0 m, 30'		Max. reach												
		 t  lb		 t  lb		 t  lb		 t  lb		 t  lb		 t  lb		Max. m / ft								
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	lb								
ME boom 6.2 m 20' 4" + Arm 2.6 m 8' 6"	7.5 25'					*8.9	*19,750	*8.9	*19,750					*9.1	*20,060	8.2	18,640	6.8 / 21.84				
	6.0 20'					*9.4	*20,500	*9.4	*20,500	*9.0	*19,750	6.9	14,750			*9.0	*19,780	6.5	14,510	7.7 / 25.22		
	4.5 15'	*13.5	*28,880	*13.5	*28,880	*10.7	*23,090	9.5	20,500	*9.4	*20,440	6.7	14,460			8.7	19,280	5.6	12,510	8.3 / 27.27		
	3.0 10'	*16.9	*36,230	13.6	29,440	*12.2	*26,410	9.0	19,420	10.1	21,730	6.5	13,970			8.1	17,890	5.2	11,530	8.6 / 28.28		
	1.5 5'	*19.0	*41,040	12.9	27,800	*13.5	*29,250	8.6	18,510	9.9	21,210	6.3	13,500			8.0	17,540	5.1	11,230	8.6 / 28.37		
	0 0'	*19.4	*42,080	12.7	27,260	13.6	29,240	8.3	17,990	9.7	20,880	6.1	13,200			8.2	18,150	5.2	11,560	8.4 / 27.54		
	-1.5 -5'	*18.7	*40,530	12.7	27,290	13.5	29,100	8.3	17,870	9.7	20,860	6.1	13,180			9.1	20,050	5.8	12,720	7.9 / 25.72		
	-3.0 -10'	*16.8	*36,360	12.9	27,750	*12.7	*27,340	8.4	18,160							*10.4	*22,990	6.9	15,400	6.9 / 22.64		
-4.5 -15'	*12.9	*27,420	*12.9	*27,420											*10.2	*22,350	10.0	*22,350	5.5 / 17.66			
Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'						*22,050		21,900							*8.9	*19,670	7.8	17,510	7.0 / 22.79		
	6.0 20'					*10.8	*23,460	9.9	21,420	*10.1	*22,250	6.9	14,880			*8.6	*18,980	6.2	13,860	8.0 / 26.04		
	4.5 15'	*15.9	*34,150	14.7	31,730	*12.4	*26,800	9.5	20,470	10.4	22,350	6.7	14,520			8.4	18,540	5.4	12,040	8.6 / 28.02		
	3.0 10'	*20.1	*43,120	13.5	29,190	*14.3	30,850	9.0	19,380	10.1	21,770	6.5	14,000	16,740	10,910	7.8	17,270	5.0	11,140	8.8 / 29.01		
	1.5 5'	*15.6	*38,070	12.9	27,730	13.9	29,840	8.6	18,500	9.9	21,250	6.3	13,520	16,460	10,640	7.7	16,940	4.9	10,860	8.9 / 29.10		
	0 0'	*20.1	*47,260	12.7	27,340	13.6	29,290	8.4	18,020	9.7	20,910	6.1	13,220	16,260	10,460	7.9	17,490	5.1	11,150	8.6 / 28.29		
	-1.5 -5'	*21.8	*47,360	12.8	27,420	13.6	29,160	8.3	17,910	9.7	20,860	6.1	13,170			8.7	19,200	5.5	12,200	8.1 / 26.52		
	-3.0 -10'	*19.9	*43,020	12.9	27,840	13.7	29,450	8.4	18,160							10.4	23,070	6.6	14,570	7.2 / 23.56		
-4.5 -15'	*16.0	*34,250	13.3	28,760											*12.0	*26,490	9.2	20,650	5.8 / 18.82			
Boom Std. 6.45 m 21' 2" + Arm Std. 3.2 m 10' 6"	7.5 25'									*7.9	*16,010	7.3	15,550			*7.1	*15,760	6.9	15,490	7.7 / 25.05		
	6.0 20'									*8.1	*17,650	7.2	15,470			*6.9	*15,280	5.7	12,710	8.6 / 28.04		
	4.5 15'	*12.3	*26,390	*12.3	*26,390	*9.9	*21,430	9.8	21,160	*8.7	*18,990	7.0	15,020			*7.0	*15,400	5.1	11,230	9.1 / 29.89		
	3.0 10'	*15.9	*34,110	14.0	30,310	*11.6	*25,090	9.3	19,990	*9.6	*20,870	6.7	14,430	7.8	16,770	5.1	10,930	7.3	*16,030	4.7	10,460	9.4 / 30.81
	1.5 5'	*18.5	*39,890	13.2	28,400	*13.1	*28,380	8.8	18,970	10.0	21,630	6.4	13,880	7.7	16,480	5.0	10,660	7.2	15,780	4.6	10,200	9.4 / 30.89
	0 0'	*19.4	*42,110	12.8	27,580	13.8	29,620	8.5	18,320	9.8	21,190	6.3	13,480	7.6	16,290	4.9	10,480	7.3	16,180	4.7	10,420	9.2 / 30.14
	-1.5 -5'	*19.2	*41,640	12.8	27,440	13.6	29,330	8.4	18,060	9.8	21,000	6.2	13,310			7.9	17,490	5.1	11,210	8.7 / 28.49		
	-3.0 -10'	*18.0	*38,910	12.9	27,730	*13.6	*29,350	8.4	18,170	9.8	21,160	6.2	13,460			9.1	20,320	5.9	12,970	7.9 / 25.76		
-4.5 -15'	*15.4	*33,070	13.2	28,450	*11.5	*24,590	8.7	18,720							*10.0	*22,040	7.6	17,000	6.6 / 21.52			
Boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'									*8.0	*17,720	7.4	15,930			*5.7	*12,520	*5.7	*12,520	8.5 / 27.64		
	6.0 20'									*8.4	*18,350	7.3	15,680	*7.0	*13,560	5.3	11,380	*5.5	*12,180	5.0	11,120	9.3 / 30.36
	4.5 15'					*10.2	*22,170	10.0	21,510	*9.2	*20,130	7.0	15,120	8.0	17,100	5.2	11,170	*5.6	*12,240	4.5	9,910	9.8 / 32.08
	3.0 10'	*16.3	*34,950	14.3	30,940	*12.3	*26,600	9.3	20,130	10.4	22,280	6.9	14,400	7.8	16,710	5.0	10,810	*5.8	*12,680	4.2	9,240	10.0 / 32.94
	1.5 5'	*19.9	*42,860	13.2	28,370	14.1	30,320	8.7	18,840	10.0	21,490	6.3	13,690	7.6	16,300	4.8	10,430	*6.1	*13,520	4.1	8,990	10.1 / 33.02
	0 0'	*21.8	47,190	12.5	26,960	13.6	29,270	8.3	17,920	9.7	20,880	6.1	13,130	7.4	15,970	4.7	10,130	6.5	14,340	4.1	9,110	9.8 / 32.31
	-1.5 -5'	21.8	46,580	12.3	26,460	13.4	28,730	8.1	17,450	9.5	20,540	5.9	12,820	7.3	15,840	4.6	10,010	6.9	15,290	4.4	9,680	9.4 / 30.78
	-3.0 -10'	*21.5	*46,570	12.3	26,560	13.3	28,660	8.1	17,390	9.5	20,520	5.9	12,800			7.8	17,310	4.9	10,930	8.6 / 28.27		
-4.5 -15'	*19.4	*41,790	12.6	27,140	13.5	29,080	8.2	17,760							9.7	21,590	6.1	13,580	7.5 / 24.50			

- Notes:
- Machine in "Fine Mode-F" (Power Boost), for lifting capacities.
 - The above loads are in compliance with SAE and ISO Hydraulic Excavator Lifting Capacity Standards.
 - Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 - Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
 - Contains metric and U.S. measurement charts.

STANDARD EQUIPMENT

Engine

Turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EPA (Environment Protection Agency) Tier 2 emission standards

3-stage air filter with indicator, includes pre-cleaner

Air pre-cleaner

Air intake heater

Electric engine shut-off

Fuel filter and water separator

Coolant filter

Alternator, 55 A

Electric/Electronic control system

Contronics

– Advanced mode control system

– Self-diagnostic system

Machine status indication

Engine speed sensing power control

Automatic idling system

One-touch power boost

Safety stop/start function

Travel alarm

Adjustable monitor

Master switch

Engine restart prevention circuit

High capacity halogen lights:

– Frame mounted 2

– Boom mounted 4

Batteries, 2 x 12 V / 200 Ah

Start motor, 24 V / 6.6 kW

Hydraulic system

Automatic hydraulic system

– Summation system

– Boom priority

– Arm priority

– Swing priority

Hydraulic piping

– Hammer & shear:

1 pump flow

– Quick coupler piping

Boom and arm regeneration valve

Swing anti-rebound valve

Boom and arm holding valves

Pump flow control for hammer & shear

Multi-stage filtering system

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Straight travel circuit

Automatic two-speed travel motors

Hydraulic oil, ISO VG 46

Superstructure

Access way with handrail

Full height counterweight

6,700 kg, 14,770 lb

Tool storage area

Punched metal anti-slip plates

Undercover (heavy duty 4,5 mm,

0.18")

Cab and interior

Fabric seat, with heater and air suspension

Pilot-operated wrist control joysticks, with 3 switches each

Heater & air-conditioner, automatic

Hydraulic dampening cab mounts

Adjustable operator seat and joystick control console

Flexible antenna

Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:

– Ashtray

– Cup holder

– Lighter

– Door locks

– Tinted glass

– Floor mat

– Horn

– Large storage area
– Pull-up type front window
– Removable lower windshield
– Seat belt

– Safety glass

– Sun shield, front, roof, rear

– Rain shield, front

– Windshield wiper with

intermittent feature

– Stereo cassette radio

Anti-vandalism kit assembly

preparation

Master ignition key

Undercarriage

Hydraulic track adjusters

Greased and sealed track chain

Track guards

Undercover (4,5 mm, 0.18")

Track shoes

Track shoes 800 mm, 32" with triple grousers

Digging equipment

Boom: 6.45 m, 21' 2"

Arm: 3.2 m, 10' 6"

OPTIONAL EQUIPMENT (Standard in certain markets)

Engine

Alternator, 80 A

Block heater: 120 V

Oil bath pre-cleaner

Diesel coolant heater

Tropical cooling kit

Fuel filter pump: 50 l/min, 13.2 gpm with automatic shut-off

Electric

Extra lamps:

– Cab-mounted 3, (front 2, rear 1)

– Counterweight-mounted 1

Overload warning device

Rotating warning beacon

Hydraulic system

Hose rupture valve: boom, arm

Hydraulic piping

– Hammer & shear:

2 pump flow

Additional return filter

Extra piping for slope & rotator

– Slope & rotator

– Grapple

– Oil leak (drain) line

Volvo hydraulic quick-coupler, S3 size

Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32

Hydraulic oil, biodegradable 46

Superstructure

Full height counterweight

5,800 kg, 12,790 lb

Cab and interior

Fabric seat

Control joystick, with semi-long levers

Control joystick, with 5 switches each

Air-conditioner, manual

Falling object guard (FOG)

Cab mounted falling object protective structures (FOPS)

Sunlight protection, roof (steel)

Safety screen for front window

Lower wiper

Anti-vandalism kit

Undercarriage

Full track guards

Undercover (heavy duty 10 mm,

0.39

Track shoes

600/700/900 mm,

24"/28"/36" track shoes with

triple grousers

600 mm, 24" track shoe with

double grouser

Digging equipment

Boom: ME 6.2 m, 20' 4"

Arm: 2.6 m, 8' 6"

3.9 m, 12' 10"

Service

Hand lamp

Spare parts

Tool kit, full scale

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

VOLVO

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