

VOLVO EXCAVATOR

EC330B LC



- Engine power, gross:
198 kW 265 hp
- Operating weight:
32.7 ~ 35.6 t
72,100 ~ 78,430 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, Volvo's 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 for easier operator use
 - 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
- Longer undercarriage for excellent stability
- Auxiliary hydraulic valve is 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 easily 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 and 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.

Low-Emission Engine:

Make	VOLVO
Model	D12C ECE2
Power output at	28 r/s 1,700 rpm
Net (ISO 9249/ SAE J1349)	184 kW 247 hp
Gross (SAE J1995)	198 kW 265 hp
Max. torque	1,353 N·m at 1,275 rpm 998 lb·ft at 1,275 rpm
No. of cylinders	6
Displacement	12.1 l 738 cu.in
Bore	131 mm 5.15"
Stroke	150 mm 5.90"



ELECTRICAL SYSTEM

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

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

Voltage	24 V
Batteries	2 x 12 V
Battery capacity	200 Ah
Alternator	28 V / 80 A



SERVICE REFILL CAPACITIES

Fuel tank	620 l	164 gal
Hydraulic system, total	500 l	132 gal
Hydraulic tank	220 l	58 gal
Engine oil	41 l	10.8 gal
Engine coolant	65.4 l	17.3 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 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 (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 rollers	2 x 8
No. of top rollers	2 x 2



HYDRAULIC SYSTEM

The hydraulic system, also known as the "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: 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.

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 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 13 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 73 dB(A)

External sound level

according to ISO 6395

and EU Directive 2000/14/EC LwA 106 dB(A)



GROUND PRESSURE

- Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,110 kg, 2,450 lb bucket and 5,800 kg, 12,790 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	32,700 kg 72,100 lb	61.5 kPa 8.9 psi	3,190 mm 10' 6"
	700 mm 28"	33,340 kg 73,510 lb	53.7 kPa 7.8 psi	3,290 mm 10' 10"
	800 mm 32"	33,740 kg 74,400 lb	47.6 kPa 6.9 psi	3,390 mm 11' 1"
	900 mm 36"	34,120 kg 75,230 lb	42.8 kPa 6.2 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	33,240 kg 73,290 lb	62.5 kPa 9.1 psi	3,190 mm 10' 6"

- Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,110 kg, 2,450 lb bucket and 6,700 kg, 14,770 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	33,600 kg 74,090 lb	63.2 kPa 9.2 psi	3,190 mm 10' 6"
	700 mm 28"	34,240 kg 75,500 lb	55.2 kPa 8.0 psi	3,290 mm 10' 10"
	800 mm 32"	34,640 kg 76,380 lb	48.9 kPa 7.1 psi	3,390 mm 11' 1"
	900 mm 36"	35,020 kg 77,220 lb	43.9 kPa 6.4 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	34,140 kg 75,280 lb	64.2 kPa 9.3 psi	3,190 mm 10' 6"

- Machine with Std. 6.45 m, 21' 2" boom, 3.2 m, 10' 6" arm, 1,110 kg, 2,450 lb bucket and 7,250 kg, 15,990 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	34,150 kg 75,300 lb	64.2 kPa 9.3 psi	3,190 mm 10' 6"
	700 mm 28"	34,790 kg 76,710 lb	56.1 kPa 8.1 psi	3,290 mm 10' 10"
	800 mm 32"	35,190 kg 77,590 lb	49.6 kPa 7.2 psi	3,390 mm 11' 1"
	900 mm 36"	35,570 kg 78,430 lb	44.6 kPa 6.5 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	34,670 kg 76,450 lb	65.2 kPa 9.5 psi	3,190 mm 10' 6"

MAX. PERMITTED BUCKETS

*Note: 1. Bucket size based on ISO 7451, 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

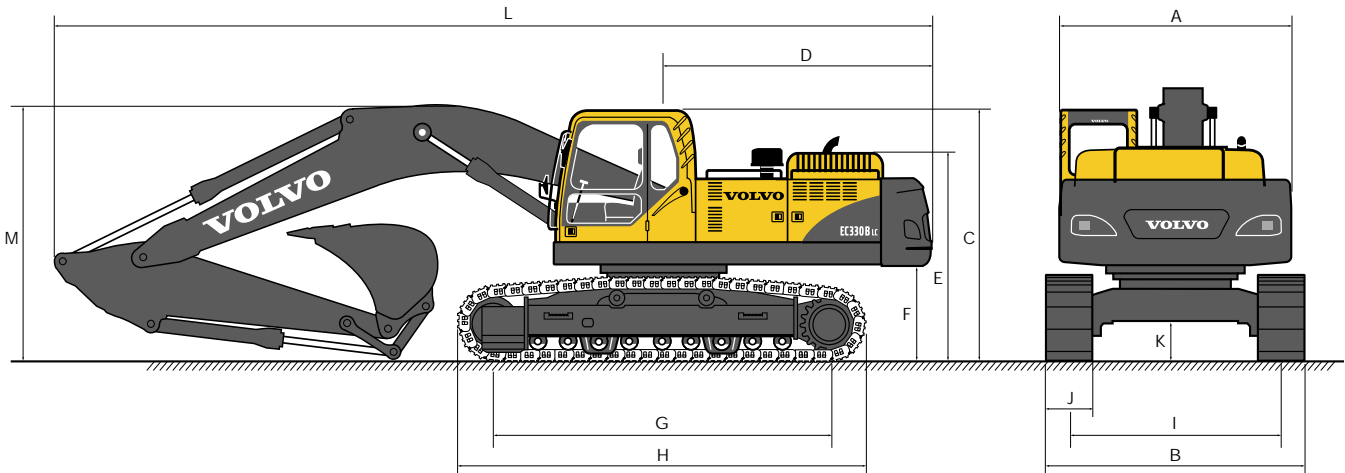
- Max. permitted sizes for pin-on buckets:
Counterweight 6,700 kg, 14,770 lb/7,250 kg, 15,990 lb

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/7,250 kg, 15,990 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, 1.80

DIMENSIONS

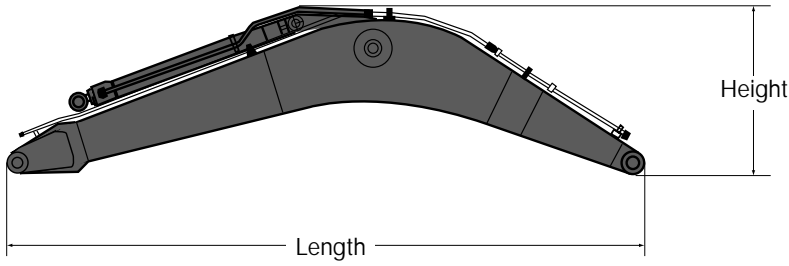


Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
A. Overall width of superstructure	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
B. Overall width	mm, ft-in	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"
C. 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

DIMENSIONS

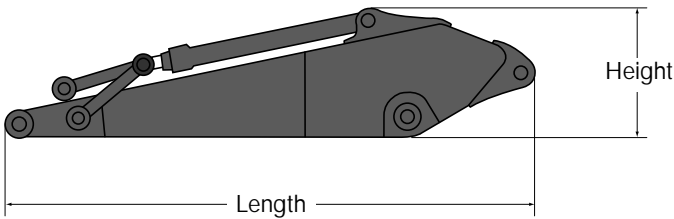
• Boom



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

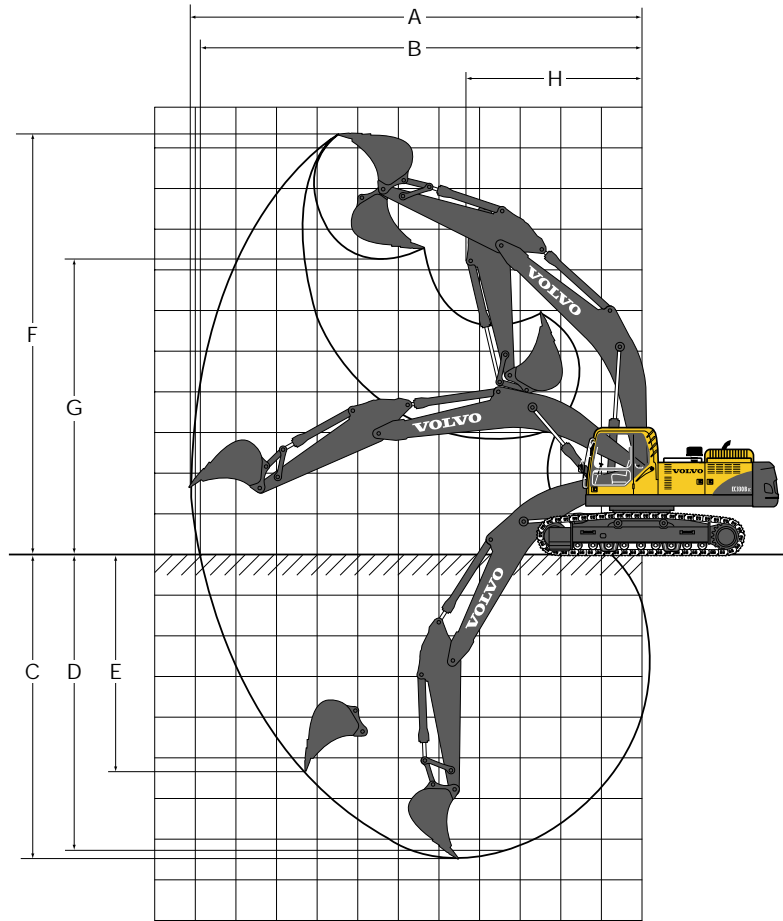
• Arm



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

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
Teaout 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
Rotation angle, bucket	deg		164°	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.

EC330B LC (Std. shoe 800 mm, 32", counterweight 5,800 kg, 12,790 lb)



	Lifting hook related to ground level	4.5 m, 15'		6.0 m, 20'				7.5 m, 25'				9.0 m, 30'				Max. reach			
		Along under-carriage		Across under-carriage		Along under-carriage		Across under-carriage		Along under-carriage		Across under-carriage		Along under-carriage		Across under-carriage			
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	Max. m / ft	
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 / 22.7
	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 / 26.0
	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 / 28.0
	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 / 29.0
	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 / 29.1
	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 / 28.2
	-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 / 26.5
	-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 / 23.5
-4.5 -15'	*16.0 *34,250	12.4 26,670														*12.0 *26,490	8.5 19,120	5.8 / 18.8	
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 / 25.0
	6.0 20'							*8.1 *17,650	6.7 14,400								*6.9 *15,280	5.3 11,780	8.6 / 28.0
	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 / 29.8
	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 / 30.8
	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 / 30.8
	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 / 30.1
	-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 / 28.4
	-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 / 25.7
-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 / 21.5	
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 / 27.6
	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 / 30.3
	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 / 32.0
	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 / 32.9
	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 / 33.0
	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 / 32.3
	-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 / 30.7
	-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 / 28.2
-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 / 24.5	

- 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.
 5. 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.

EC330B 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	lb	Max. m / ft							
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 / 21.8				
	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 / 25.2			
	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 / 27.2			
	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 / 28.2			
	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 / 28.3			
	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 / 27.5			
	-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 / 25.7			
	-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 / 22.6			
-4.5 -15'	*12.9	*27,420	*12.9	*27,420										*10.2	*22,350	10.0	*22,350	5.5 / 17.6				
Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'														*8.9	*19,670	7.8	17,510	7.0 / 22.7			
	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 / 26.0			
	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 / 28.0			
	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		7.8	17,270	5.0	11,140	8.8 / 29.0			
	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		7.7	16,940	4.9	10,860	8.9 / 29.1			
	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		7.9	17,490	5.1	11,150	8.6 / 28.2			
	-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 / 26.5			
	-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 / 23.5			
-4.5 -15'	*16.0	*34,250	13.3	28,760										*12.0	*26,490	9.2	20,650	5.8 / 18.8				
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 / 25.0			
	6.0 20'							*8.1	*17,650	7.2	15,470				*6.9	*15,280	5.7	12,710	8.6 / 28.0			
	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 / 29.8			
	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 / 30.8
	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 / 30.8
	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 / 30.1
	-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 / 28.4			
	-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 / 25.7			
-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 / 21.5				
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 / 27.6			
	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 / 30.3		
	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 / 32.0
	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 / 32.9
	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 / 33.0
	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 / 32.3
	-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 / 30.7
	-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 / 28.2			
-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 / 24.5				

- Notes:
- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
 - The above loads are in compliance with SAE J1097 and ISO 10567 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.

EC330B LC (Std. shoe 800 mm, 32", counterweight 7,250 kg, 15,990 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		 t  lb		 t  lb		 t  lb		Max. m / ft		
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb			
ME boom 6.2 m 20' 4" + Arm 2.6 m 8' 6"	7.5 25'					*9.0	*19,800	*9.0	*19,800									*9.1	*20,110	8.7	19,580	6.8 / 21.8
	6.0 20'					*9.4	*20,560	*9.4	*20,560	*9.0	*19,800	7.2	15,540					*9.0	*19,830	6.9	15,300	7.7 / 25.2
	4.5 15'	*13.5	*28,910	*13.5	*28,910	*10.7	*23,130	10.0	21,530	*9.4	*20,490	7.1	15,250					*9.1	19,990	6.0	13,230	8.3 / 27.2
	3.0 10'	*16.9	*36,240	14.3	30,900	*12.2	*26,440	9.5	20,440	*10.1	*21,980	6.8	14,750					8.5	18,750	5.5	12,220	8.6 / 28.2
	1.5 5'	*19.0	*41,030	13.6	29,260	*13.5	*29,270	9.1	19,520	10.3	22,200	6.6	14,280					8.3	18,390	5.4	11,910	8.6 / 28.3
	0 0'	*19.4	*42,080	13.3	28,710	*14.2	30,570	8.8	19,000	10.2	21,870	6.5	13,980					8.6	19,040	5.6	12,270	8.4 / 27.5
	-1.5 -5'	*18.7	*40,520	13.4	28,750	*14.0	*30,330	8.8	18,880	10.1	21,850	6.5	13,960					9.5	21,020	6.1	13,470	7.9 / 25.7
	-3.0 -10'	*16.8	*36,360	13.6	29,210	*12.7	*27,370	8.9	19,170									*10.4	*23,020	7.3	16,280	6.9 / 22.6
-4.5 -15'	*12.9	*27,440	*12.9	*27,440														*10.2	*22,380	*10.2	*22,380	5.5 / 17.6
Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'																					
	6.0 20'					*10.8	*23,460	10.3	22,280	*10.1	*22,250	7.2	15,540					*8.9	*19,670	8.1	18,240	7.0 / 22.7
	4.5 15'	*15.9	*34,150	15.3	33,010	*12.4	*26,800	9.9	21,340	10.8	23,170	7.0	15,170					8.7	*19,150	5.7	12,610	8.6 / 28.0
	3.0 10'	*20.1	*43,120	14.1	30,470	*14.3	*30,860	9.4	20,250	10.5	22,590	6.8	14,650					8.1	17,940	5.3	11,680	8.8 / 29.0
	1.5 5'	*15.6	*38,070	13.5	29,010	14.4	30,970	9.0	19,370	10.2	22,060	6.6	14,170					8.0	17,610	5.2	11,400	8.9 / 29.1
	0 0'	*20.1	*47,260	13.3	28,620	14.1	30,410	8.8	18,880	10.1	21,870	6.4	13,870					8.2	18,180	5.3	11,720	8.6 / 28.2
	-1.5 -5'	*21.8	*47,360	13.3	28,690	14.1	30,280	8.7	18,770	10.1	21,670	6.4	13,820					9.0	19,950	5.8	12,800	8.1 / 26.5
	-3.0 -10'	*19.9	*43,020	13.5	29,120	14.2	30,570	8.8	19,020									10.8	23,960	6.9	15,270	7.2 / 23.5
-4.5 -15'	*16.0	*34,250	13.9	30,040														*12.0	*26,490	9.6	21,580	5.8 / 18.8
Boom Std. 6.45 m 21' 2" + Arm Std. 3.2 m 10' 6"	7.5 25'									*7.9	*16,020	7.6	*16,020					*7.1	*15,770	*7.1	*15,770	7.7 / 25.0
	6.0 20'									*8.1	*17,670	7.5	16,110					*6.9	*15,290	6.0	13,270	8.6 / 28.0
	4.5 15'	*12.3	*26,410	*12.3	*26,410	*9.9	*21,450	*9.9	*21,450	*8.7	*19,010	7.3	15,660					*7.0	*15,400	5.3	11,760	9.1 / 29.8
	3.0 10'	*15.9	*34,140	14.6	31,580	*11.6	*25,120	9.7	20,840	*9.6	*20,890	7.0	15,080	8.1	17,410	5.3	11,450	*7.3	*16,030	5.0	10,970	9.4 / 30.8
	1.5 5'	*18.5	*39,940	13.8	29,680	*13.1	*28,410	9.2	19,830	10.4	22,440	6.7	14,530	8.0	17,120	5.2	11,190	7.4	16,390	4.9	10,710	9.4 / 30.8
	0 0'	*19.5	*42,160	13.4	28,870	*14.1	*30,460	8.9	19,190	10.2	22,000	6.6	14,130	7.9	16,930	5.1	11,010	7.6	16,820	5.0	10,940	9.2 / 30.1
	-1.5 -5'	*19.2	*41,700	13.4	28,730	14.2	30,440	8.8	18,940	10.1	21,820	6.5	13,970					8.2	18,170	5.3	11,770	8.7 / 28.4
	-3.0 -10'	*18.0	*38,970	13.5	29,020	*13.6	*29,390	8.8	19,040	10.2	21,980	6.5	14,120					9.5	21,110	6.1	13,610	7.9 / 25.7
-4.5 -15'	*15.4	*33,130	13.8	29,730	*11.6	*24,630	9.1	19,590										*10.0	*22,080	7.9	17,790	6.6 / 21.5
Boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'									*8.0	*17,780	7.7	16,580					*5.7	*12,520	*5.7	*12,520	8.5 / 27.6
	6.0 20'									*8.4	*18,410	7.6	16,330	*7.0	*13,560	5.6	11,930	*5.5	*12,180	*5.2	11,670	9.3 / 30.3
	4.5 15'					*10.3	*22,240	*10.3	*22,240	*9.3	*20,210	7.3	15,790	8.3	17,760	5.5	11,730	*5.6	*12,240	4.7	10,430	9.8 / 32.0
	3.0 10'	*16.3	*35,080	14.9	32,260	*12.3	*26,710	9.7	21,030	*10.4	*22,620	7.0	15,090	8.1	17,380	5.3	11,390	*5.8	*12,680	4.4	9,770	10.0 / 32.9
	1.5 5'	*20.0	*43,060	13.8	29,760	*14.3	*31,030	9.2	19,770	10.4	22,350	6.7	14,400	7.9	16,980	5.1	11,020	*6.1	*13,520	4.3	9,520	10.1 / 33.0
	0 0'	*21.9	*47,470	13.2	28,400	14.2	30,470	8.8	18,890	10.1	21,760	6.4	13,860	7.7	16,670	5.0	10,730	*6.8	14,890	4.4	9,660	9.8 / 32.3
	-1.5 -5'	*22.4	48,530	13.0	27,930	13.9	29,950	8.6	18,430	9.9	21,420	6.3	13,560	7.7	16,540	4.9	10,610	7.2	15,970	4.6	10,260	9.4 / 30.7
	-3.0 -10'	*21.6	*46,830	13.0	28,020	13.9	29,890	8.5	18,380	9.9	21,410	6.3	13,550					8.2	18,060	5.2	11,570	8.6 / 28.2
-4.5 -15'	*19.5	*42,040	13.3	28,590	14.1	30,300	8.7	18,740										10.1	22,500	6.4	14,330	7.5 / 24.5

- Notes:
- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
 - The above loads are in compliance with SAE J1097 and ISO 10567 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 and precleaner

Air intake heater

Electric engine shut-off

Fuel filter and water separator

Coolant filter

Alternator, 80 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 valves

Swing anti-rebound valves

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

7,250 kg, 15,990 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

– 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

Block heater: 120 V

Oil bath precleaner

Diesel coolant heater

Tropical cooling kit

Fuel filler 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

6,700 kg, 14,770 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)

Rain shield, front

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

Volvo Construction Equipment
North America, Inc.

One Volvo Drive, Asheville, NC 28803-3447
www.volvoce.com

Ref. No. 22 3 435 1644
Printed in USA 09/04 – 5,0
Volvo, Asheville

English
GMC