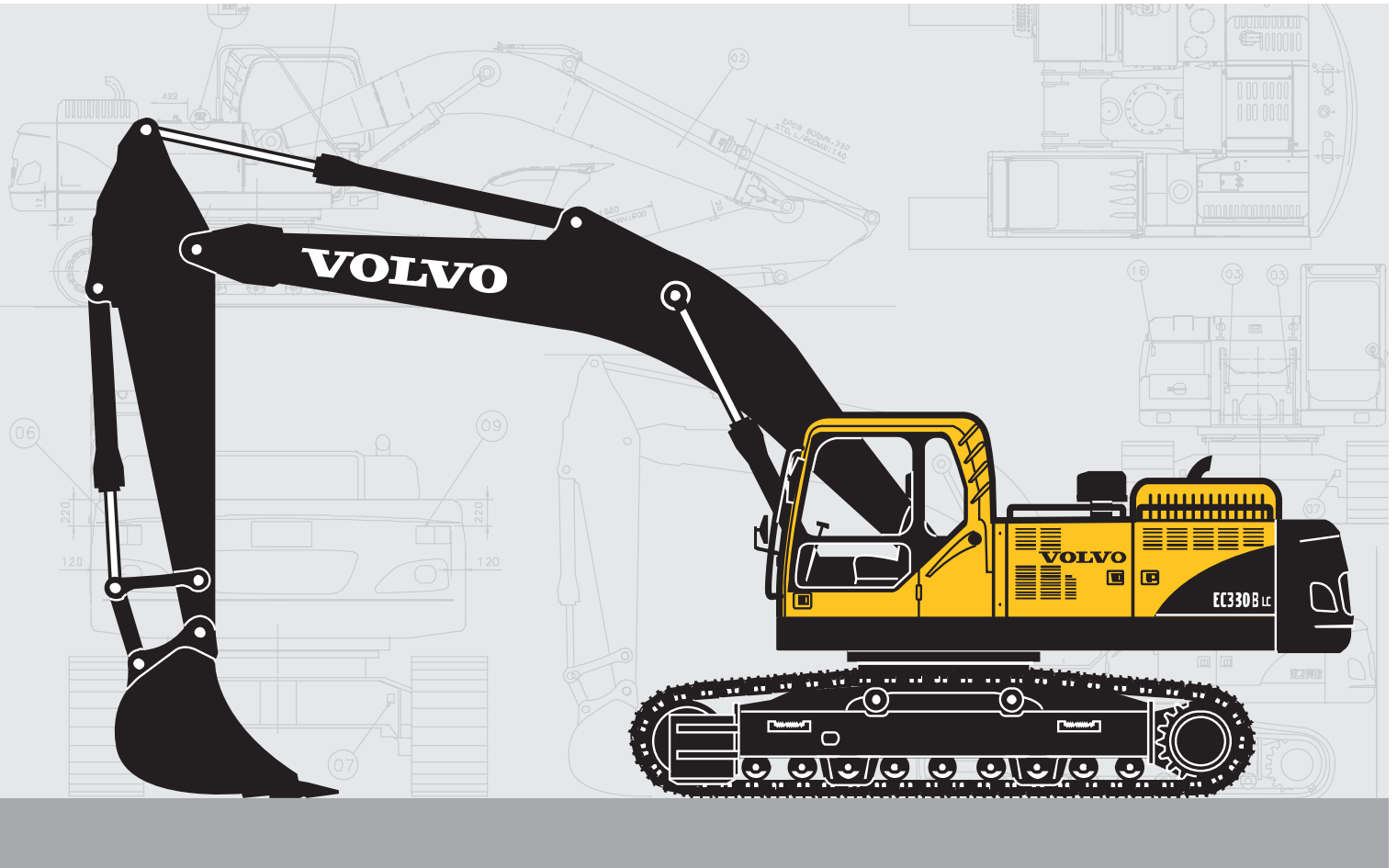


VOLVO EXCAVATOR

EC330B LC



- **Engine power, gross:**
198 kW 265 hp
- **Operating weight:**
33.7 ~ 36.6 t
74,310 ~ 80,640 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 3 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 next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions and maintain superior performance and fuel efficiency. The Tier 3 compliant engine uses precise, high-pressure fuel injectors, internal recirculation of engine exhaust and electronic engine controls to optimize machine performance.

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	D12D EBE3
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 at 1,275 rpm	1,475 N·m 1,088 lb-ft
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	42 l	11 gal
Engine coolant	60 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 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, provide 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 motor with mechanical brake
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 .. $\varnothing 150 \times 1,530$ mm
 $\varnothing 5.9" \times 60.2"$
Arm 1
Bore x Stroke .. $\varnothing 175 \times 1,700$ mm
 $\varnothing 6.9" \times 66.9"$
Bucket 1
Bore x Stroke .. $\varnothing 145 \times 1,285$ mm
 $\varnothing 5.7" \times 50.6"$
ME bucket 1
Bore x Stroke .. $\varnothing 160 \times 1,250$ mm
 $\varnothing 6.3" \times 49.2"$



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 105 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"	33,700 kg 74,310 lb	63.5 kPa 9.2 psi	3,190 mm 10' 6"
	700 mm 28"	34,340 kg 75,720 lb	55.4 kPa 8.0 psi	3,290 mm 10' 10"
	800 mm 32"	34,740 kg 76,600 lb	49.0 kPa 7.1 psi	3,390 mm 11' 1"
	900 mm 36"	35,120 kg 77,440 lb	44.0 kPa 6.4 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	34,240 kg 75,500 lb	64.4 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 6,700 kg, 14,770 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	34,600 kg 76,290 lb	65.2 kPa 9.5 psi	3,190 mm 10' 6"
	700 mm 28"	35,240 kg 77,700 lb	56.8 kPa 8.2 psi	3,290 mm 10' 10"
	800 mm 32"	35,640 kg 78,590 lb	50.3 kPa 7.3 psi	3,390 mm 11' 1"
	900 mm 36"	36,020 kg 79,420 lb	45.2 kPa 6.6 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	35,140 kg 77,480 lb	66.1 kPa 9.6 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"	35,150 kg 77,510 lb	66.2 kPa 9.6 psi	3,190 mm 10' 6"
	700 mm 28"	35,790 kg 78,920 lb	57.7 kPa 8.4 psi	3,290 mm 10' 10"
	800 mm 32"	36,190 kg 79,800 lb	51.1 kPa 7.4 psi	3,390 mm 11' 1"
	900 mm 36"	36,570 kg 80,640 lb	45.9 kPa 6.7 psi	3,490 mm 11' 5"
Double grouser	600 mm 24"	35,670 kg 78,650 lb	67.1 kPa 9.7 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
HD 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
HD 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
HD 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
HD 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

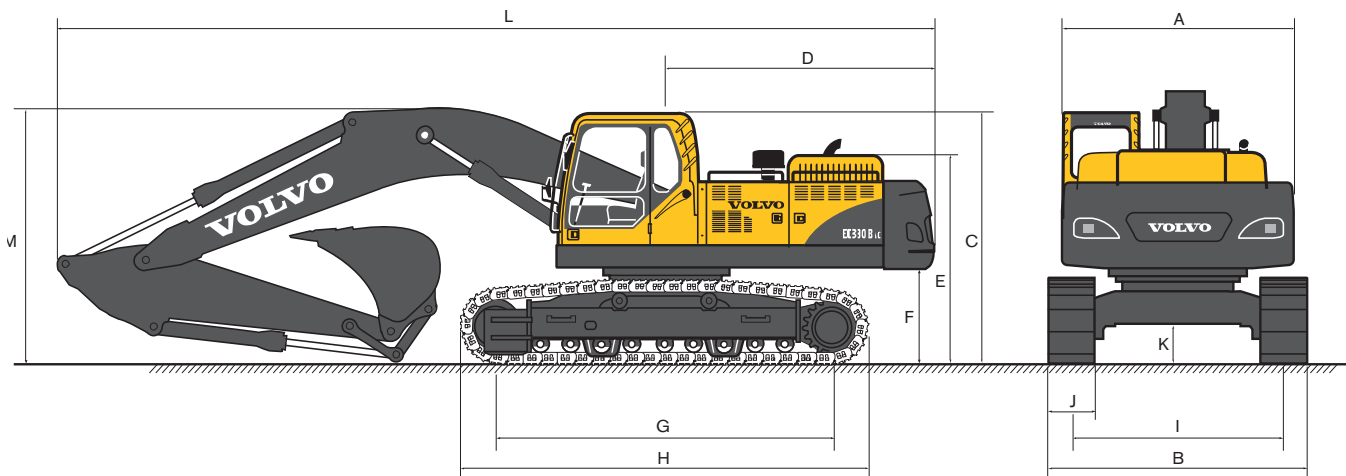
- Max. permitted sizes for pin-on buckets:
Counterweight 6,700 kg, 14,770 lb/7,250 kg, 15,990 lb

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
HD 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
HD 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
HD 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
HD 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

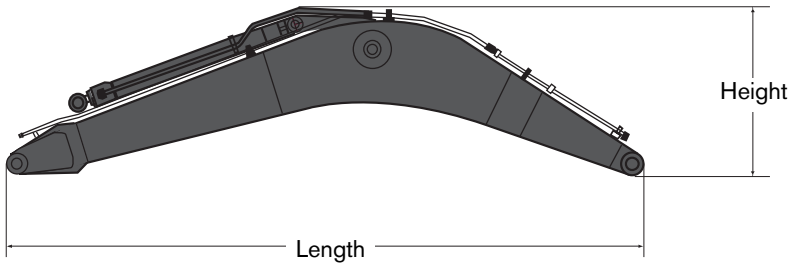


Boom	Unit	ME 6.2 m, 20' 4"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.2 m, 10' 6"	3.9 m, 12' 10"
A. Overall width of superstructure	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
B. Overall width	mm, ft-in	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"
C.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

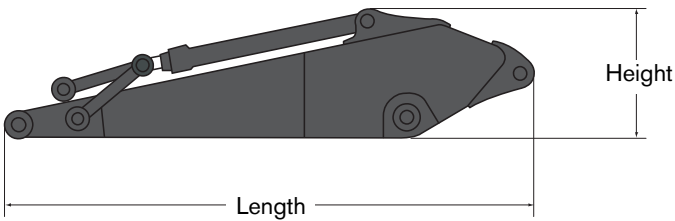
● Boom



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	3,290 kg, 7,250 lb	3,060 kg, 6,750 lb

* Includes cylinder, pin and piping

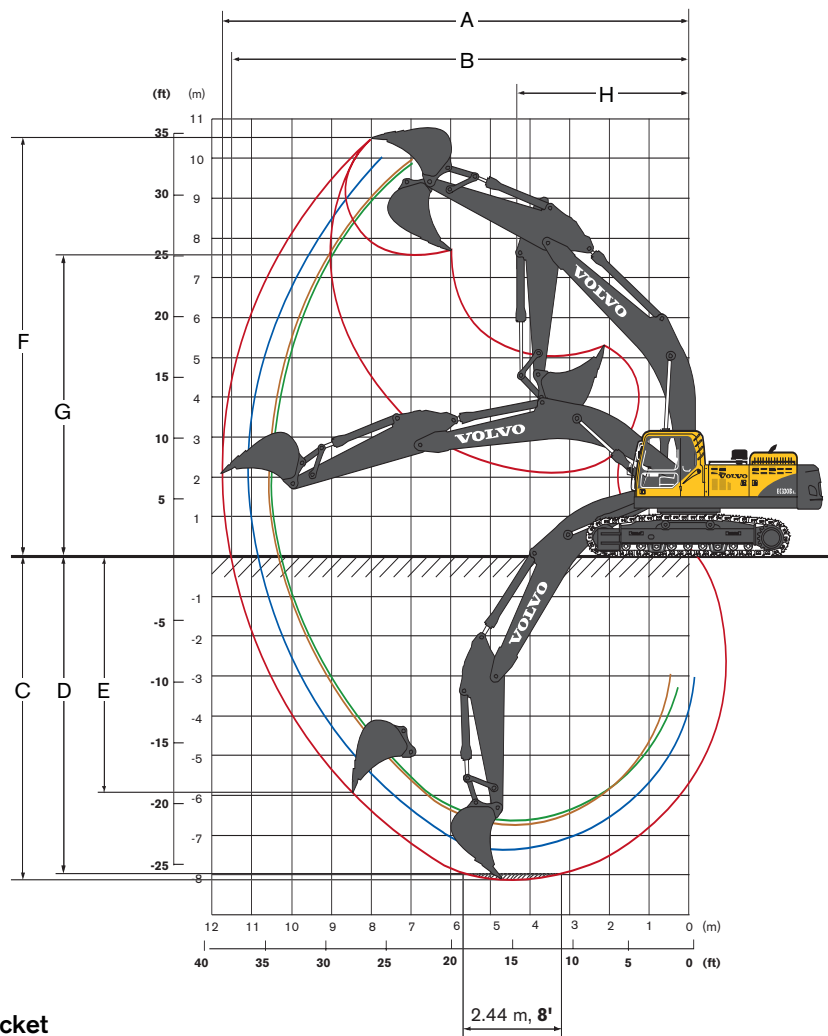
● Arm



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	2,020 kg, 4,450 lb	1,920 kg, 4,230 lb	2,240 kg, 4,940 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
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
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 quickcoupler from the following values.

EC330B 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						
														Max. m / ft		
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb			
Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'					*8.5 *18,710	*8.5 *18,710							*8.6 *18,990	7.3 16,580	7.1 / 22.89
	6.0 20'					*9.1 *19,870	*9.1 *19,870	*8.5 *18,760	6.6 14,150					*8.5 *18,800	5.9 13,070	8.0 / 26.13
	4.5 15'	*13.5 *28,990	*13.5 *28,990			*10.5 *22,660	9.0 19,520	*9.1 *19,760	6.4 13,770					8.0 17,800	5.1 11,310	8.6 / 28.11
	3.0 10'					*12.1 *26,050	8.5 18,370	9.8 21,010	6.1 13,220					7.5 16,550	4.7 10,420	8.9 / 29.09
	1.5 5'					*13.3 *28,780	8.1 17,450	9.5 20,460	5.9 12,720					7.4 16,220	4.6 10,140	8.9 / 29.18
	0 0'	*19.2 *41,550	12.0 25,740	13.1 28,200	7.9 16,940	9.3 20,110	5.8 12,410							7.6 16,740	4.7 10,410	8.6 / 28.38
	-1.5 -5'	*18.4 *39,980	12.0 25,830	13.1 28,070	7.8 16,830	9.3 20,060	5.7 12,360							8.3 18,380	5.2 11,390	8.1 / 26.61
	-3.0 -10'	*16.7 *36,230	12.2 26,280	*12.8 *27,520	7.9 17,100									*9.9 *22,070	6.1 13,640	7.2 / 23.66
-4.5 -15'	*13.4 *28,660	12.6 27,250											*9.9 *21,840	8.6 19,370	5.9 / 18.95	
Boom Std. 6.45 m 21' 2" + Arm 3.2 m 10' 6"	7.5 25'							*7.9 *16,000	6.9 14,850					*7.1 *15,750	6.6 14,790	7.7 / 25.05
	6.0 20'							*8.0 *17,490	6.9 14,760					*6.9 *15,270	5.4 12,060	8.6 / 28.04
	4.5 15'	*12.2 *26,190	*12.2 *26,190	*9.8 *21,250	9.4 20,240	*8.6 *18,810	6.6 14,290	7.7 16,460	4.9 10,560					*7.0 *15,380	4.8 10,610	9.1 / 29.89
	3.0 10'	*15.7 *33,790	13.4 28,850	*11.5 *24,850	8.8 19,010	*9.5 *20,660	6.3 13,680	7.5 16,160	4.8 10,300					7.0 15,480	4.5 9,850	9.4 / 30.81
	1.5 5'	*18.3 *39,500	12.4 26,850	*13.0 *28,090	8.3 17,940	9.7 20,860	6.1 13,090	7.4 15,860	4.7 10,020					6.9 15,170	4.3 9,580	9.4 / 30.89
	0 0'	*19.3 *41,680	12.1 26,000	13.3 28,540	8.0 17,260	9.5 20,400	5.9 12,680	7.3 15,660	4.6 9,840					7.1 15,560	4.4 9,770	9.2 / 30.14
	-1.5 -5'	*19.0 *41,220	12.0 25,860	13.1 28,230	7.9 17,000	9.4 20,200	5.8 12,510							7.6 16,810	4.8 10,520	8.7 / 28.49
	-3.0 -10'	*17.8 *38,500	12.2 26,160	13.2 28,360	7.9 17,110	9.4 20,380	5.9 12,660							8.8 19,570	5.5 12,200	7.9 / 25.76
-4.5 -15'	*15.2 *32,690	12.5 26,920	*11.4 *24,300	8.2 17,690									*9.9 *21,780	7.2 16,070	6.6 / 21.52	
Boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'							*6.8 *14,970	*6.8 *14,970					*5.6 *12,460	*5.6 *12,460	8.5 / 27.64
	6.0 20'							*7.1 *15,490	7.0 14,970	*7.0 *13,500	5.0 10,790			*5.5 *12,120	4.7 10,530	9.3 / 30.36
	4.5 15'					*8.7 *18,790	*8.7 *18,790	*7.8 *16,980	6.7 14,400	*7.3 *16,050	4.9 10,580			*5.5 *12,180	4.2 9,350	9.8 / 32.08
	3.0 10'	*13.8 *29,680	13.7 29,560	*10.4 *22,500	8.9 19,180	*8.7 *18,980	6.3 13,670	7.5 16,120	4.8 10,210					*5.7 *12,620	3.9 8,700	10.0 / 32.94
	1.5 5'	*16.9 *36,340	12.5 26,940	*12.1 *26,100	8.3 17,870	9.6 20,750	6.0 12,950	7.3 15,700	4.6 9,830					*6.1 *13,450	3.8 8,440	10.1 / 33.02
	0 0'	*18.5 *40,020	11.9 25,520	13.1 28,250	7.9 16,940	9.4 20,130	5.7 12,390	7.1 15,370	4.4 9,530					6.3 13,790	3.9 8,550	9.8 / 32.31
	-1.5 -5'	*18.9 *40,890	11.6 25,030	12.9 27,710	7.6 16,470	9.2 19,780	5.6 12,070	7.1 15,230	4.4 9,400					6.7 14,710	4.1 9,090	9.4 / 30.78
	-3.0 -10'	*18.2 *39,410	11.7 25,140	12.9 27,650	7.6 16,420	9.2 19,770	5.6 12,060							7.5 16,670	4.6 10,290	8.6 / 28.27
-4.5 -15'	*16.4 *35,290	12.0 25,740	*12.3 *26,460	7.8 16,800	*9.2 *19,830	5.8 12,450							*9.1 *20,160	5.7 12,830	7.5 / 24.50	

- 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 quickcoupler 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		 t lb		 t lb		Max.				
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m / ft		
ME boom 6.2 m 20' 4" + Arm 2.6 m 8' 6"	7.5 25'					*8.8	*19,530	*8.8	*19,530							*9.0	*19,830	8.5	19,170	6.8 / 21.84		
	6.0 20'					*9.3	*20,270	*9.3	*20,270	*8.8	*19,490	7.1	15,150			*8.9	*19,520	6.7	14,910	7.7 / 25.22		
	4.5 15'	*13.3	*28,580	*13.3	*28,580	*10.5	*22,820	9.8	21,080	*9.2	*20,170	6.9	14,850			*8.7	*19,670	5.8	12,840	8.3 / 27.27		
	3.0 10'	*16.7	*35,820	14.0	30,230	*12.1	*26,090	9.2	19,940	*10.0	*21,650	6.7	14,330			8.4	18,480	5.4	11,820	8.6 / 28.28		
	1.5 5'	*18.8	*40,570	13.2	28,520	*13.3	*28,880	8.8	18,990	10.2	21,900	6.4	13,840			8.2	18,110	5.2	11,510	8.6 / 28.37		
	0 0'	*19.2	*41,590	13.0	27,950	*14.0	*30,200	8.6	18,450	10.0	21,550	6.3	13,530			8.5	18,740	5.4	11,850	8.4 / 27.54		
	-1.5 -5'	*18.5	*40,030	13.0	27,990	*13.8	*29,920	8.5	18,320	10.0	21,530	6.3	13,510			9.4	20,700	5.9	13,030	7.9 / 25.72		
	-3.0 -10'	*16.6	*35,890	13.2	28,470	*12.5	*26,960	8.6	18,630							*10.3	*22,650	7.1	15,800	6.9 / 22.64		
-4.5 -15'	*12.7	*27,000	*12.7	*27,000											*10.0	*21,980	*10.0	*21,980	5.5 / 17.66			
Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'					*8.5	*18,710	*8.5	*18,710							*8.6	*18,990	7.9	17,770	7.1 / 22.89		
	6.0 20'					*9.1	*19,870	*9.1	*19,870	*8.5	*18,760	7.1	15,220			*8.5	*18,800	6.3	14,080	8.0 / 26.13		
	4.5 15'	*13.5	*28,990	*13.5	*28,990	*10.5	*22,660	9.7	20,930	*9.1	*19,760	6.9	14,830			8.6	18,940	5.5	12,230	8.6 / 28.11		
	3.0 10'					*12.1	*26,050	9.2	19,780	*9.8	*21,390	6.6	14,280			8.0	17,650	5.1	11,310	8.9 / 29.09		
	1.5 5'					*13.3	*28,870	8.7	18,860	10.1	21,800	6.4	13,790			7.9	17,310	5.0	11,020	8.9 / 29.18		
	0 0'	*19.2	*41,550	12.9	27,820	14.0	30,040	8.5	18,350	10.0	21,450	6.2	13,470			8.1	17,870	5.1	11,320	8.6 / 28.38		
	-1.5 -5'	*18.4	*39,980	13.0	27,910	*13.9	29,910	8.5	18,240	9.9	21,400	6.2	13,420			8.9	19,610	5.6	12,380	8.1 / 26.61		
	-3.0 -10'	*16.7	*36,230	13.2	28,360	*12.8	*27,520	8.6	18,500							*10.0	*22,070	6.7	14,780	7.2 / 23.66		
-4.5 -15'	*13.4	*28,660	*13.4	*28,660											*9.9	*21,840	9.3	20,880	5.9 / 18.95			
Boom Std. 6.45 m 21' 2" + Arm Std. 3.2 m 10' 6"	7.5 25'									*7.9	*16,000	7.4	15,910			*7.1	*15,750	*7.1	*15,750	7.7 / 25.05		
	6.0 20'									*8.0	*17,490	7.4	15,820			*6.9	*15,270	5.8	12,990	8.6 / 28.04		
	4.5 15'	*12.2	*26,190	*12.2	*26,190	*9.8	*21,250	*9.8	*21,250	*8.6	*18,810	7.1	15,350	*8.1	*17,730	5.3	11,430	*7.0	*15,380	5.2	11,470	9.1 / 29.89
	3.0 10'	*15.7	*33,790	14.3	30,940	*11.5	*24,850	9.5	20,420	*9.5	*20,660	6.8	14,740	8.0	17,220	5.2	11,150	*7.3	*16,010	4.8	10,680	9.4 / 30.81
	1.5 5'	*18.3	*39,500	13.4	28,930	*13.0	*28,090	9.0	19,350	10.3	22,200	6.6	14,160	7.9	16,920	5.1	10,870	7.3	16,190	4.7	10,410	9.4 / 30.89
	0 0'	*19.3	*41,680	13.0	28,080	*13.9	*30,110	8.7	18,670	10.1	21,740	6.4	13,740	7.8	16,720	5.0	10,690	7.5	16,610	4.8	10,620	9.2 / 30.14
	-1.5 -5'	*19.0	*41,220	13.0	27,940	14.0	30,070	8.5	18,400	10.0	21,540	6.3	13,570			8.1	17,940	5.2	11,430	8.7 / 28.49		
	-3.0 -10'	*17.8	*38,500	13.1	28,240	*13.4	*29,030	8.6	18,520	10.1	21,720	6.3	13,730			9.4	20,860	6.0	13,230	7.9 / 25.76		
-4.5 -15'	*15.2	*32,690	13.5	29,000	*11.4	*24,300	8.8	19,100							*9.9	*21,780	7.7	17,350	6.6 / 21.52			
Boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'									*6.8	*14,970	*6.8	*14,970			*5.6	*12,460	*5.6	*12,460	8.5 / 27.64		
	6.0 20'									*7.1	*15,490	*7.1	*15,490	*7.0	*13,500	5.4	11,640	*5.5	*12,120	5.1	11,370	9.3 / 30.36
	4.5 15'					*8.7	*18,790	*8.7	*18,790	*7.8	*16,980	7.2	15,460	*7.3	*16,050	5.3	11,430	*5.5	*12,180	4.6	10,140	9.8 / 32.08
	3.0 10'	*13.8	*29,680	*13.8	*29,680	*10.4	*22,500	9.5	20,590	*8.7	*18,980	6.8	14,730	*7.8	*17,050	5.1	11,070	*5.7	*12,620	4.3	9,460	10.0 / 32.94
	1.5 5'	*16.9	*36,340	13.5	29,030	*12.1	*26,100	8.9	19,280	*9.7	*21,040	6.5	14,010	7.8	16,750	5.0	10,680	*6.1	*13,450	4.2	9,210	10.1 / 33.02
	0 0'	*18.5	*40,020	12.8	27,610	*13.3	*28,710	8.5	18,350	10.0	21,470	6.2	13,450	7.6	16,420	4.8	10,380	6.7	14,750	4.2	9,330	9.8 / 32.31
	-1.5 -5'	*18.9	*40,890	12.6	27,120	13.7	29,550	8.3	17,880	9.8	21,120	6.1	13,140	7.6	16,290	4.8	10,260	7.1	15,730	4.5	9,920	9.4 / 30.78
	-3.0 -10'	*18.2	*39,410	12.7	27,220	*13.6	*29,340	8.3	17,830	9.8	21,110	6.1	13,130			8.0	17,810	5.1	11,210	8.6 / 28.27		
-4.5 -15'	*16.4	*35,290	12.9	27,820	*12.3	*26,460	8.4	18,210	*9.2	*19,830	6.3	13,510			*9.1	*20,160	6.2	13,920	7.5 / 24.50			

- 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 quickcoupler 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	 t lb	 t lb	 t lb	Max. m / ft		
ME boom 6.2 m 20' 4" + Arm 2.6 m 8' 6"	7.5 25'					*8.8 *19,530	*8.8 *19,530							*9.0 *19,830	*8.8 *19,830	6.8 / 21.84
	6.0 20'					*9.3 *20,270	*9.3 *20,270	*8.8 *19,490	7.4 15,800					*8.9 *19,520	7.0 15,550	7.7 / 25.22
	4.5 15'	*13.3 *28,580	*13.3 *28,580	*10.5 *22,820	10.2 21,940	*9.2 *20,170	7.2 15,500							*8.9 *19,670	6.1 13,420	8.3 / 27.27
	3.0 10'	*16.7 *35,820	14.6 31,500	*12.1 *26,090	9.6 20,800	*10.0 *21,650	7.0 14,980							8.7 19,170	5.6 12,380	8.6 / 28.28
	1.5 5'	*18.8 *40,570	13.8 29,790	*13.3 *28,880	9.2 19,850	10.6 22,720	6.7 14,490							8.5 18,800	5.5 12,070	8.6 / 28.37
	0 0'	*19.2 *41,590	13.6 29,220	*14.0 *30,310	9.0 19,310	10.4 22,370	6.6 14,180							8.8 19,460	5.6 12,420	8.4 / 27.54
	-1.5 -5'	*18.5 *40,030	13.6 29,260	*13.8 *29,920	8.9 19,180	10.4 22,350	6.6 14,160							9.7 21,490	6.2 13,660	7.9 / 25.72
	-3.0 -10'	*16.6 *35,890	13.8 29,740	*12.5 *26,960	9.0 19,490									*10.3 *22,650	7.4 16,530	6.9 / 22.64
-4.5 -15'	*12.7 *27,000	*12.7 *27,000											*10.0 *21,980	*10.0 *21,980	5.5 / 17.66	
Boom Std. 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'					*8.5 *18,710	*8.5 *18,710							*8.6 *18,990	8.2 18,490	7.1 / 22.89
	6.0 20'					*9.1 *19,870	*9.1 *19,870	*8.5 *18,760	7.4 15,870					*8.5 *18,800	6.6 14,690	8.0 / 26.13
	4.5 15'	*13.5 *28,990	*13.5 *28,990	*10.5 *22,660	10.1 21,790	*9.1 *19,760	7.2 15,480							*8.6 *18,990	5.8 12,790	8.6 / 28.11
	3.0 10'			*12.1 *26,050	9.6 20,640	*9.8 *21,390	6.9 14,930							8.3 18,320	5.4 11,850	8.9 / 29.09
	1.5 5'			*13.3 *28,870	9.1 19,720	10.5 22,620	6.7 14,440							8.2 17,980	5.2 11,560	8.9 / 29.18
	0 0'	*19.2 *41,550	13.5 29,100	*14.0 *30,290	8.9 19,210	10.3 22,270	6.5 14,120							8.4 18,560	5.4 11,880	8.6 / 28.38
	-1.5 -5'	*18.4 *39,980	13.6 29,180	*13.9 *30,000	8.9 19,100	10.3 22,210	6.5 14,070							9.2 20,360	5.9 12,980	8.1 / 26.61
	-3.0 -10'	*16.7 *36,230	13.8 29,640	*12.8 *27,520	9.0 19,360									*10.0 *22,070	7.0 15,480	7.2 / 23.66
-4.5 -15'	*13.4 *28,660	*13.4 *28,660											*9.9 *21,840	9.7 21,810	5.9 / 18.95	
Boom Std. 6.45 m 21' 2" + Arm Std. 3.2 m 10' 6"	7.5 25'							*7.9 *16,000	7.7 *16,000					*7.1 *15,750	*7.1 *15,750	7.7 / 25.05
	6.0 20'							*8.0 *17,490	7.7 16,470					*6.9 *15,270	6.1 13,560	8.6 / 28.04
	4.5 15'	*12.2 *26,190	*12.2 *26,190	*9.8 *21,250	*9.8 *21,250	*8.6 *18,810	7.4 16,000	*8.1 *17,730	5.6 11,950					*7.0 *15,380	5.4 11,990	9.1 / 29.89
	3.0 10'	*15.7 *33,790	14.9 32,210	*11.5 *24,850	9.9 21,280	*9.5 *20,660	7.1 15,390	8.3 17,860	5.4 11,670					*7.3 *16,010	5.1 11,190	9.4 / 30.81
	1.5 5'	*18.3 *39,500	14.0 30,200	*13.0 *28,090	9.4 20,210	*10.4 *22,470	6.9 14,810	8.2 17,560	5.3 11,400					7.6 16,810	5.0 10,910	9.4 / 30.89
	0 0'	*19.3 *41,680	13.6 29,360	*13.9 *30,110	9.1 19,530	10.5 22,550	6.7 14,390	8.1 17,360	5.2 11,210					7.8 17,250	5.1 11,400	9.2 / 30.14
	-1.5 -5'	*19.0 *41,220	13.6 29,210	*14.1 *30,530	8.9 19,260	10.4 22,360	6.6 14,220							8.4 18,530	5.4 11,990	8.7 / 28.49
	-3.0 -10'	*17.8 *38,500	13.7 29,520	*13.4 *29,030	9.0 19,380	*10.4 *22,260	6.6 14,370							*9.6 *21,250	6.2 13,860	7.9 / 25.76
-4.5 -15'	*15.2 *32,690	14.1 30,280	*11.4 *24,300	9.2 19,960									*9.9 *21,780	8.1 18,130	6.6 / 21.52	
Boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'							*6.8 *14,970	*6.8 *14,970					*5.6 *12,460	*5.6 *12,460	8.5 / 27.64
	6.0 20'							*7.1 *15,490	*7.1 *15,490	*7.0 *13,500	5.7 12,160			*5.5 *12,120	5.3 11,890	9.3 / 30.36
	4.5 15'			*8.7 *18,790	*8.7 *18,790	*7.8 *16,980	7.5 16,110	*7.3 *16,050	5.6 11,950					*5.5 *12,180	4.8 10,620	9.8 / 32.08
	3.0 10'	*13.8 *29,680	*13.8 *29,680	*10.4 *22,500	9.9 21,450	*8.7 *18,980	7.1 15,380	*7.8 *17,050	5.4 11,590					*5.7 *12,620	4.5 9,930	10.0 / 32.94
	1.5 5'	*16.9 *36,340	14.1 30,300	*12.1 *26,100	9.3 20,140	*9.7 *21,040	6.8 14,660	8.1 17,400	5.2 11,210					*6.1 *13,450	4.4 9,670	10.1 / 33.02
	0 0'	*18.5 *40,020	13.4 28,880	*13.3 *28,710	8.9 19,210	10.4 22,290	6.5 14,100	7.9 17,070	5.1 10,900					*6.7 *14,820	4.5 9,810	9.8 / 32.31
	-1.5 -5'	*18.9 *40,890	13.2 28,390	*13.8 *29,870	8.7 18,740	10.2 21,940	6.4 13,790	7.9 16,930	5.0 10,780					7.4 16,350	4.7 10,420	9.4 / 30.78
	-3.0 -10'	*18.2 *39,410	13.2 28,500	*13.6 *29,340	8.7 18,690	10.2 21,930	6.4 13,780							8.4 18,500	5.3 11,770	8.6 / 28.27
-4.5 -15'	*16.4 *35,290	13.5 29,100	*12.3 *26,460	8.8 19,070	*9.2 *19,830	6.6 14,160							*9.1 *20,160	6.5 14,590	7.5 / 24.50	

- 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 3 emission standards
3-stage air filter with indicator and precleaner
Air intake heater
Electric engine shut-off
Remote diesel water separator
Coolant filter
Remote engine oil 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
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"**)
Front and rear towing eye

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
10kW diesel driven engine coolant heater
Fuel filler pump: 50 l/min, **13.2 gpm** with automatic shut-off
Water separator with heater

Electric

Extra lamps:
– Cab-mounted 3 (front 2, rear 1)
– Counterweight-mounted 1
Overload warning device
Rotating warning beacon
Anti-theft system

Hydraulic system

Hose rupture valve: boom, arm
Hydraulic piping
– Hammer & shear:
1 pump flow
2 pump flow
Additional return filter
Extra piping for slope & rotator
– Slope & rotator
– Grapple
– Oil leak (drain) line
– Quickcoupler piping
Volvo hydraulic quickcoupler, S3 size
Hydraulic oil, ISO VG 32
Hydraulic oil, ISO VG 68
Hydraulic oil, biodegradable 32
Hydraulic oil, biodegradable 46
Straight travel pedal

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

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Volvo Construction Equipment North America, Inc.

One Volvo Drive, Asheville, NC 28803-3447

www.volvoce.com

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