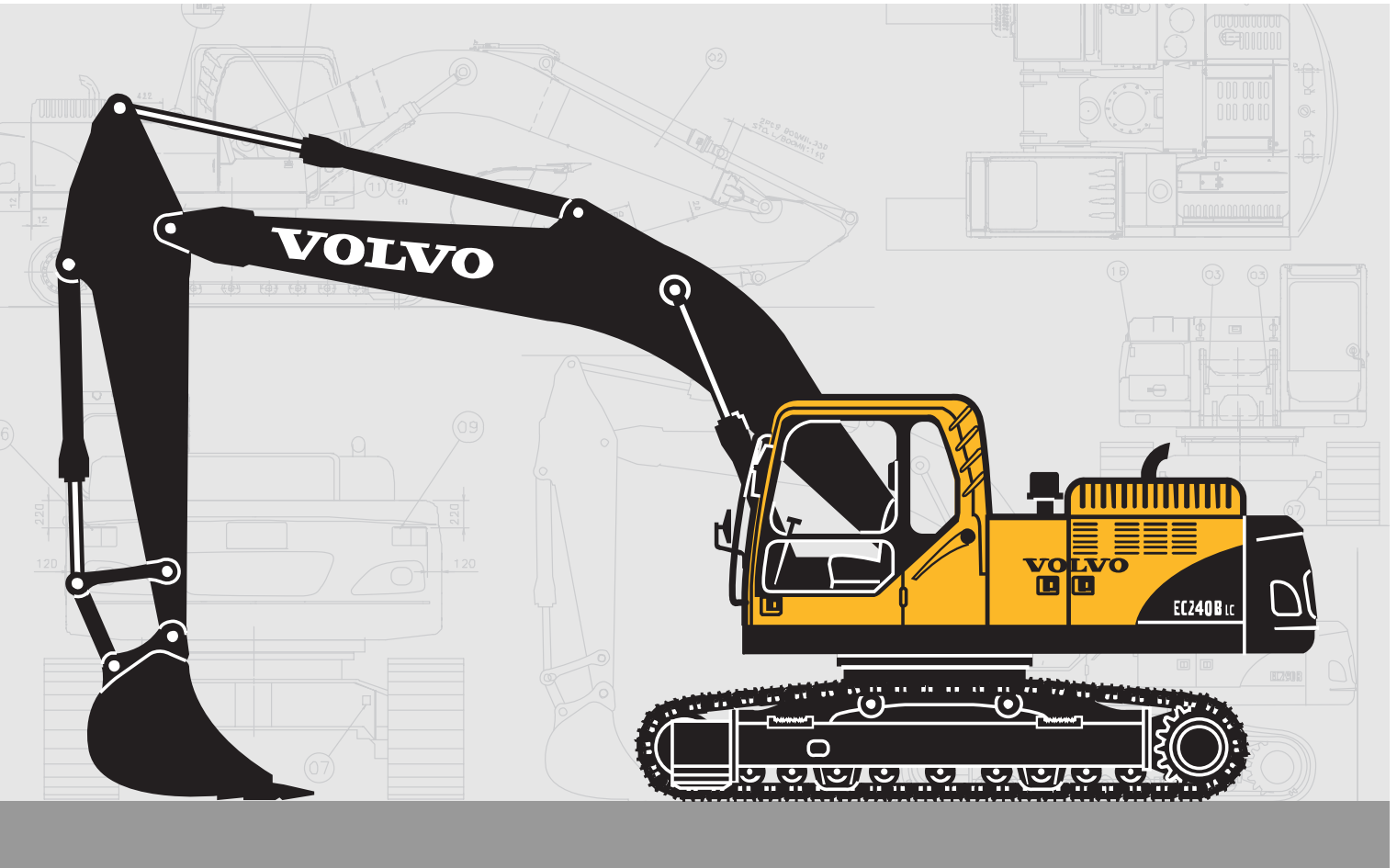


VOLVO EXCAVATOR

EC240B LC



- **Engine power, gross:**
134 kW 180 hp
- **Operating weight:**
24.2 ~ 25.8 t
53,360 ~ 56,820 lb
- **Buckets (SAE):**
1,050 ~ 1,975 l
1.37 ~ 2.58 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
- Long 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	D7D EBE2	
Power output at	33 r/s	2,000 rpm
Net (ISO 9249/		
SAE J1349)	125 kW	168 hp
Gross (SAE J1995)	134 kW	180 hp
Max. torque	735 N·m at 1,400 rpm	
	543 lb-ft at 1,400 rpm	
No. of cylinders	6	
Displacement	7.1 l	436 cu.in
Bore	108 mm	4.25"
Stroke	130 mm	5.12"



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	380 l	100 gal
Hydraulic system, total	320 l	85 gal
Hydraulic tank	190 l	50 gal
Engine oil	32 l	8 gal
Engine coolant	44 l	12 gal
Swing reduction unit	12 l	3.2 gal
Travel reduction unit	2 x 5.2 l	2 x 1.4 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 11.4 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)	209 kN
	46,960 lb
Max. travel speed	3.2/5.5 km/h
	2.0/3.4 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 51
Link pitch	190 mm 7.5"
Shoe width, triple grouser	600/700/800(Std.)/900 mm
	24"/28"/32"(Std.)/36"
Shoe width, double grouser	700 mm 28"
No. of bottom track rollers	2 x 9
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 230 l/min **2 x 61 gpm**

Pilot pump:

Type Gear pump
Maximum flow 1 x 20 l/min **5.3 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 26.5 Mpa **3,840 psi**
Pilot circuit 3.9 Mpa **570 psi**

Hydraulic cylinders:

Boom 2
Bore x Stroke .. $\varnothing 135 \times 1,345$ mm
 $\varnothing 5.3" \times 53.0"$
Arm 1
Bore x Stroke .. $\varnothing 140 \times 1,665$ mm
 $\varnothing 5.5" \times 65.6"$
Bucket 1
Bore x Stroke .. $\varnothing 130 \times 1,150$ mm
 $\varnothing 5.1" \times 45.3"$



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. 6.0 m, 19' 8" boom, 2.97 m, 9' 9" arm, 820 kg, 1,810 lb bucket and 4,600 kg, 10,140 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	24,200 kg 53,360 lb	47.9 kPa 6.9 psi	3,190 mm 10' 6"
	700 mm 28"	24,490 kg 54,000 lb	41.5 kPa 6.0 psi	3,290 mm 10' 10"
	800 mm 32"	24,780 kg 54,640 lb	36.8 kPa 5.3 psi	3,390 mm 11' 1"
	900 mm 36"	25,070 kg 55,280 lb	33.1 kPa 4.8 psi	3,490 mm 11' 5"
Double grouser	700 mm 28"	24,850 kg 54,790 lb	42.1 kPa 6.1 psi	3,290 mm 10' 10"

- Machine with Std. 6.0 m, 19' 8" boom, 2.97 m, 9' 9" arm, 820 kg, 1,810 lb bucket and 5,300 kg, 11,690 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	24,900 kg 54,900 lb	49.3 kPa 7.1 psi	3,190 mm 10' 6"
	700 mm 28"	25,190 kg 55,540 lb	42.7 kPa 6.2 psi	3,290 mm 10' 10"
	800 mm 32"	25,480 kg 56,180 lb	37.8 kPa 5.5 psi	3,390 mm 11' 1"
	900 mm 36"	25,770 kg 56,820 lb	34.0 kPa 4.9 psi	3,490 mm 11' 5"
Double grouser	700 mm 28"	25,550 kg 56,340 lb	43.2 kPa 6.3 psi	3,290 mm 10' 10"

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 4,600 kg, 10,140 lb

Boom	Unit	Std. 6.0 m, 19' 8"			
Arm		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	HD 2.97 m, 9' 9"	3.6 m, 11' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	1,825, 2.39	1,700, 2.22	1,675, 2.19	1,575, 2.06
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,600, 2.09	1,500, 1.96	1,450, 1.90	1,375, 1.80
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,400, 1.83	1,325, 1.73	1,275, 1.67	1,225, 1.60
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,300, 1.70	1,225, 1.60	1,200, 1.57	1,125, 1.47

- Max. permitted sizes for hook-on buckets:
Counterweight 4,600 kg, 10,140 lb

Boom	Unit	Std. 6.0 m, 19' 8"			
Arm		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	HD 2.97 m, 9' 9"	3.6 m, 11' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	1,725, 2.26	1,600, 2.09	1,575, 2.06	1,475, 1.93
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,500, 1.96	1,400, 1.83	1,375, 1.80	1,275, 1.67
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,325, 1.73	1,225, 1.60	1,200, 1.57	1,125, 1.47
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,225, 1.60	1,150, 1.50	1,125, 1.47	1,050, 1.37

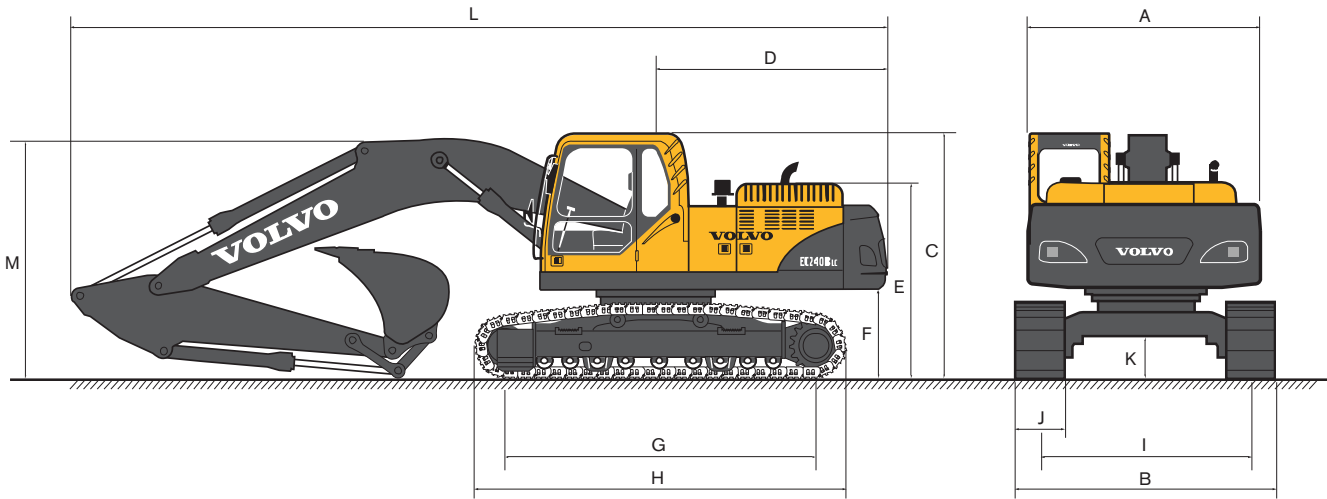
- Max. permitted sizes for pin-on buckets:
Counterweight 5,300 kg, 11,690 lb

Boom	Unit	Std. 6.0 m, 19' 8"			
Arm		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	HD 2.97 m, 9' 9"	3.6 m, 11' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	1,975, 2.58	1,850, 2.42	1,800, 2.35	1,700, 2.22
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,725, 2.26	1,625, 2.13	1,575, 2.06	1,500, 1.96
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,525, 1.99	1,425, 1.86	1,400, 1.83	1,325, 1.73
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,400, 1.83	1,325, 1.73	1,300, 1.70	1,225, 1.60

- Max. permitted sizes for hook-on buckets:
Counterweight 5,300 kg, 11,690 lb

Boom	Unit	Std. 6.0 m, 19' 8"			
Arm		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	HD 2.97 m, 9' 9"	3.6 m, 11' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	1,875, 2.45	1,750, 2.29	1,700, 2.22	1,600, 2.09
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,625, 2.13	1,525, 1.99	1,500, 1.96	1,400, 1.83
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	1,450, 1.90	1,350, 1.77	1,325, 1.73	1,250, 1.64
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	1,325, 1.73	1,250, 1.64	1,225, 1.60	1,150, 1.50

DIMENSIONS

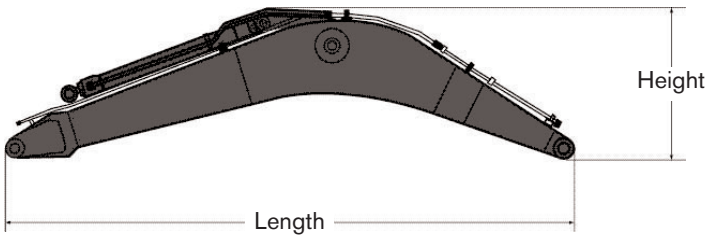


Boom	Unit	Std. 6.0 m, 19' 8"		
		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	3.6 m, 11' 10"
Arm				
A. Overall width of superstructure	mm, ft-in	2,840, 9' 4"	2,840, 9' 4"	2,840, 9' 4"
B. Overall width	mm, ft-in	3,390, 11' 1"	3,390, 11' 1"	3,390, 11' 1"
C. Overall height of cab	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
D. Tail swing radius	mm, ft-in	2,940, 9' 8"	2,940, 9' 8"	2,940, 9' 8"
E. Overall height of engine hood	mm, ft-in	2,390, 7' 10"	2,390, 7' 10"	2,390, 7' 10"
F. Counterweight clearance *	mm, ft-in	1,080, 3' 7"	1,080, 3' 7"	1,080, 3' 7"
G. Tumbler length	mm, ft-in	3,850, 12' 8"	3,850, 12' 8"	3,850, 12' 8"
H. Track length	mm, ft-in	4,650, 15' 3"	4,650, 15' 3"	4,650, 15' 3"
I. Track gauge	mm, ft-in	2,590, 8' 6"	2,590, 8' 6"	2,590, 8' 6"
J. Shoe width	mm, in	800, 32"	800, 32"	800, 32"
K. Min. ground clearance *	mm, ft-in	470, 1' 7"	470, 1' 7"	470, 1' 7"
L. Overall length	mm, ft-in	10,110, 33' 2"	10,020, 32' 10"	10,100, 33' 2"
M. Overall height of boom	mm, ft-in	3,220, 10' 7"	3,040, 10' 0"	3,220, 10' 7"

* Without shoe grouser

DIMENSIONS

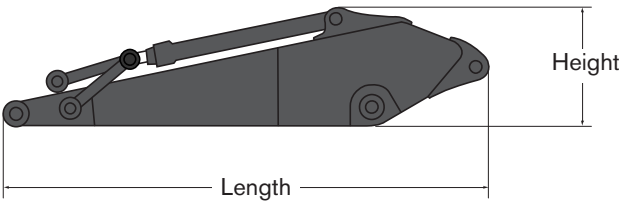
• Boom



Description	6.0 m, 19' 8"	
	Standard	Heavy-duty
Length	6,210 mm, 20' 4"	6,210 mm, 20' 4"
Height	1,630 mm, 5' 4"	1,630 mm, 5' 4"
Width	730 mm, 2' 5"	730 mm, 2' 5"
Weight	2,040 kg, 4,500 lb	2,130 kg, 4,700 lb

* Includes cylinder, pin and piping

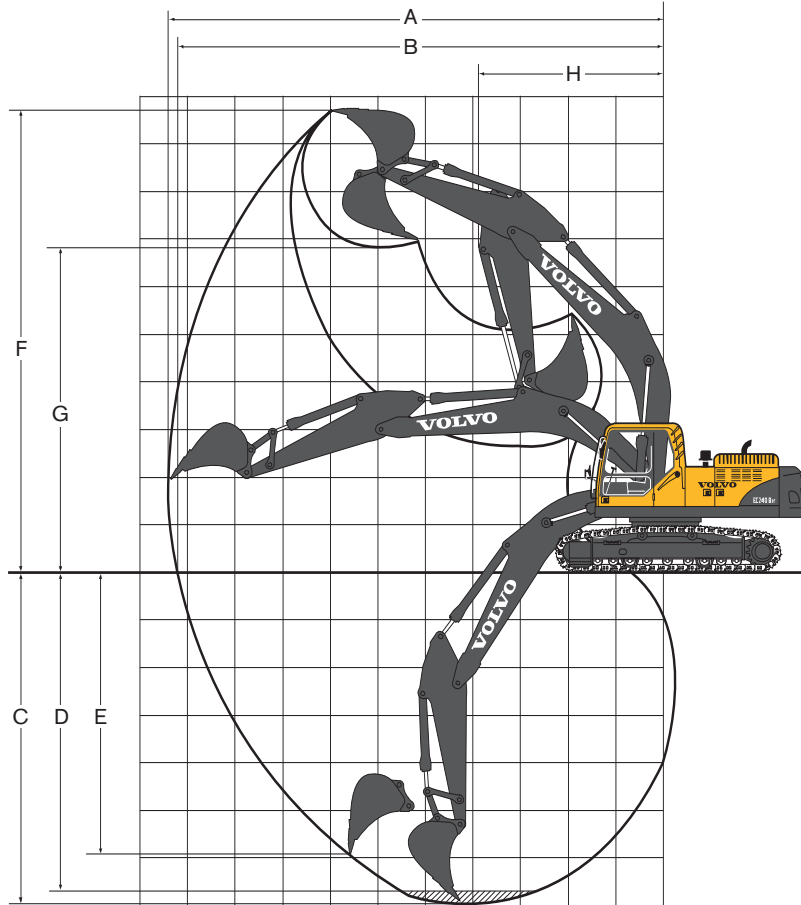
• Arm



Description	2.5 m, 8' 2"	2.97 m, 9' 9"		3.6 m, 11' 10"
		Standard	Heavy-duty	
Length	3,590 mm, 11' 9"	4,060 mm, 13' 4"	4,060 mm, 13' 4"	4,730 mm, 15' 6"
Height	930 mm, 3' 1"	920 mm, 3' 0"	920 mm, 3' 0"	920 mm, 3' 0"
Width	480 mm, 1' 7"	480 mm, 1' 7"	480 mm, 1' 7"	480 mm, 1' 7"
Weight	1,185 kg, 2,610 lb	1,210 kg, 2,670 lb	1,290 kg, 2,840 lb	1,290 kg, 2,840 lb

* Includes cylinder, piping and linkage

WORKING RANGES & DIGGING FORCES



• Machine with pin-on bucket

Boom	Unit	Std. 6.0 m, 19' 8"		
Arm		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	3.6 m, 11' 10"
A. Max. digging reach	mm, ft-in	9,880, 32' 5"	10,260, 33' 8"	10,730, 35' 2"
B. Max. digging reach on ground	mm, ft-in	9,690, 31' 9"	10,080, 33' 1"	10,560, 34' 8"
C. Max. digging depth	mm, ft-in	6,500, 21' 4"	6,980, 22' 11"	7,600, 24' 11"
D. Max. digging depth (8' level)	mm, ft-in	6,280, 20' 7"	6,740, 22' 1"	7,380, 24' 3"
E. Max. vertical wall digging depth	mm, ft-in	5,730, 18' 10"	5,970, 19' 7"	6,270, 20' 7"
F. Max. cutting height	mm, ft-in	9,620, 31' 7"	9,690, 31' 9"	9,660, 31' 8"
G. Max. dumping height	mm, ft-in	6,700, 22' 0"	6,800, 22' 4"	6,820, 22' 5"
H. Min. front swing radius	mm, ft-in	3,910, 12' 10"	3,890, 12' 9"	3,890, 12' 9"















• Digging forces with pin-on bucket

Boom	Unit	Std. 6.0 m, 19' 8"		
Arm		2.5 m, 8' 2"	Std. 2.97 m, 9' 9"	3.6 m, 11' 10"
Bucket tip radius	mm, in	1,540, 61"	1,540, 61"	1,540, 61"
Breakout force – bucket (Normal/Power boost)	SAE kN lb	143.2/156.9 32,190/35,280	143.2/156.9 32,190/35,280	143.2/156.9 32,190/35,280
Teaout force – arm (Normal/Power boost)	SAE kN lb	125.2/137.0 28,160/30,800	108.8/118.7 24,480/26,680	97.1/105.9 21,830/23,810
Rotation angle, bucket	deg	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.

EC240B LC (Std. shoe 800 mm, 32", counterweight 4,600 kg, 10,140 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		
Std. boom 6.0 m 19' 8" + Arm 2.5 m 8' 2"	7.5 25'													*6.5 *14,370	6.5 *14,370	6.1 / 19.7
	6.0 20'					*6.5 *14,170	*6.5 *14,170							*6.5 *14,330	4.9 10,970	7.2 / 23.5
	4.5 15'	*8.7 *18,800	*8.7 *18,800	*7.3 *15,790	6.5 13,910	*6.7 *14,630	4.6 9,810							6.3 13,890	4.2 9,260	7.9 / 25.8
	3.0 10'	*11.3 *24,270	9.3 20,130	*8.4 *18,220	6.1 13,260	6.7 14,420	4.4 9,540							5.8 12,710	3.8 8,430	8.3 / 27.1
	1.5 5'	*13.3 *28,640	8.8 18,960	9.2 19,730	5.9 12,670	6.5 14,100	4.3 9,260							5.6 12,350	3.7 8,140	8.3 / 27.3
	0 0'	*14.0 *30,360	8.6 18,480	9.0 19,300	5.7 12,290	6.4 13,890	4.2 9,060							5.8 12,690	3.8 8,320	8.1 / 26.6
	-1.5 -5'	*13.8 *30,010	8.6 18,430	8.9 19,170	5.6 12,170									6.3 13,950	4.1 9,090	7.6 / 24.9
	-3.0 -10'	*12.8 *27,720	8.7 18,680	9.0 19,360	5.7 12,340									7.6 16,970	4.9 10,960	6.7 / 21.8
-4.5 -15'	*10.3 *21,970	9.0 19,340											*8.6 *18,940	7.2 16,250	5.3 / 16.9	
Std. boom 6.0 m 19' 8" + Std. arm 2.97 m 9' 9"	7.5 25'													*5.5 *12,240	*5.5 *12,240	6.6 / 21.4
	6.0 20'					*5.9 *12,920	*5.9 *12,920							*5.3 *11,660	4.5 10,060	7.7 / 25.0
	4.5 15'	*7.9 *16,950	*7.9 *16,950	*6.7 *14,650	6.5 14,080	*6.2 *13,650	4.6 9,910							*5.3 *11,680	3.9 8,610	8.3 / 27.2
	3.0 10'	*10.4 *22,430	9.5 20,500	*7.9 *17,200	6.2 13,390	6.7 14,480	4.5 9,590							5.4 11,880	3.6 7,870	8.6 / 28.3
	1.5 5'	*12.7 *27,310	8.9 19,140	*9.1 *19,760	5.9 12,720	6.6 14,110	4.3 9,260							5.2 11,540	3.4 7,600	8.7 / 28.5
	0 0'	*13.8 *29,850	8.6 18,460	9.0 19,290	5.7 12,270	6.4 13,840	4.2 9,000							5.4 11,810	3.5 7,730	8.5 / 27.9
	-1.5 -5'	*13.9 *30,200	8.5 18,280	8.9 19,070	5.6 12,070	6.4 13,730	4.1 8,910							5.8 12,820	3.8 8,350	8.0 / 26.2
	-3.0 -10'	*13.2 *28,620	8.6 18,430	8.9 19,150	5.6 12,140									6.8 15,190	4.4 9,830	7.2 / 23.4
-4.5 -15'	*11.3 *24,270	8.8 18,950											*8.4 *18,600	6.0 13,600	5.8 / 18.8	
Std. boom 6.0 m 19' 8" + Arm 3.6 m 11' 10"	7.5 25'													*4.6 *10,180	*4.6 *10,180	7.2 / 23.4
	6.0 20'							*5.3 *11,680	4.8 10,320					*4.5 *9,840	4.1 9,160	8.2 / 26.7
	4.5 15'					*6.0 *13,100	*6.0 *13,100	*5.7 *12,440	4.7 10,080					*4.5 *9,920	3.6 7,940	8.8 / 28.8
	3.0 10'	*9.2 *19,870	*9.2 *19,870	*7.3 *15,760	6.3 13,620	*6.3 *13,800	4.5 9,710							*4.7 *10,370	3.3 7,290	9.1 / 29.9
	1.5 5'	*11.7 *25,290	9.0 19,460	*8.6 *18,560	6.0 12,850	6.6 14,180	4.3 9,310	5.0 10,750	3.3 7,080					4.8 10,690	3.2 7,030	9.2 / 30.1
	0 0'	*13.3 *28,770	8.6 18,490	9.0 19,320	5.7 12,280	6.4 13,830	4.2 8,980							4.9 10,870	3.2 7,100	9.0 / 29.4
	-1.5 -5'	*13.9 *30,050	8.4 18,100	8.8 18,970	5.6 11,970	6.3 13,630	4.1 8,800							5.3 11,650	3.4 7,570	8.5 / 27.9
	-3.0 -10'	*13.6 *29,380	8.4 18,120	8.8 18,920	5.5 11,930	6.3 13,660	4.1 8,820							6.1 13,430	3.9 8,690	7.7 / 25.3
-4.5 -15'	*12.3 *26,400	8.6 18,490	8.9 19,230	5.6 12,200									7.9 17,680	5.0 11,310	6.5 / 21.1	

- 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.

EC240B LC (Std. shoe 800 mm, 32", counterweight 5,300 kg, 11,690 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		
Std. boom 6.0 m 19' 8" + Arm 2.5 m 8' 2"	7.5 25'												*6.5 *14,370	*6.5 *14,370	6.1 / 19.7
	6.0 20'					*6.5 *14,170	*6.5 *14,170						*6.5 *14,330	5.3 11,760	7.2 / 23.5
	4.5 15'	*8.7 *18,800	*8.7 *18,800	*7.3 *15,790	6.9 14,890	*6.7 *14,630	4.9 10,550						*6.6 *14,620	4.5 9,960	7.9 / 25.8
	3.0 10'	*11.3 *24,270	10.0 21,570	*8.4 *18,220	6.6 14,230	7.1 15,330	4.8 10,280						6.1 13,540	4.1 9,090	8.3 / 27.1
	1.5 5'	*13.3 *28,640	9.5 20,400	*9.5 *20,550	6.3 13,640	7.0 15,020	4.6 9,990						6.0 13,160	4.0 8,800	8.3 / 27.3
	0 0'	*14.0 *30,360	9.3 19,920	9.6 20,550	6.2 13,260	6.9 14,800	4.5 9,790						6.1 13,530	4.1 9,000	8.1 / 26.6
	-1.5 -5'	*13.8 *30,010	9.2 19,870	9.5 20,420	6.1 13,150								6.7 14,870	4.5 9,830	7.6 / 24.9
	-3.0 -10'	*12.8 *27,720	9.3 20,120	9.6 20,600	6.2 13,310								8.1 18,070	5.3 11,830	6.7 / 21.8
-4.5 -15'	*10.3 *21,970	9.6 20,780										*8.6 *18,940	7.7 17,460	5.3 / 16.9	
Std. boom 6.0 m 19' 8" + Std. arm 2.97 m 9' 9"	7.5 25'												*5.5 *12,240	*5.5 *12,240	6.6 / 21.4
	6.0 20'					*5.9 *12,920	*5.9 *12,920						*5.3 *11,660	4.8 10,800	7.7 / 25.0
	4.5 15'	*7.9 *16,950	*7.9 *16,950	*6.7 *14,650	*6.7 *14,650	*6.2 *13,650	4.9 10,640						*5.3 *11,680	4.2 9,270	8.3 / 27.2
	3.0 10'	*10.4 *22,430	10.2 21,930	*7.9 *17,200	6.7 14,360	*6.8 *14,840	4.8 10,330						*5.5 *12,150	3.9 8,510	8.6 / 28.3
	1.5 5'	*12.7 *27,310	9.5 20,580	*9.1 *19,760	6.3 13,690	7.0 15,030	4.6 9,990						5.6 12,310	3.7 8,220	8.7 / 28.5
	0 0'	*13.8 *29,850	9.2 19,890	9.5 20,540	6.1 13,240	6.8 14,750	4.5 9,740						5.7 12,600	3.8 8,370	8.5 / 27.9
	-1.5 -5'	*13.9 *30,200	9.2 19,710	9.4 20,320	6.0 13,040	6.8 14,650	4.5 9,640						6.2 13,680	4.1 9,040	8.0 / 26.2
	-3.0 -10'	*13.2 *28,620	9.2 19,870	9.5 20,390	6.1 13,110								7.3 16,190	4.8 10,620	7.2 / 23.4
-4.5 -15'	*11.3 *24,270	9.5 20,380										8.4 *18,600	6.5 14,650	5.8 / 18.8	
Std. boom 6.0 m 19' 8" + Arm 3.6 m 11' 10"	7.5 25'												*4.6 *10,180	*4.6 *10,180	7.2 / 23.4
	6.0 20'							*5.3 *11,680	5.1 11,050				*4.5 *9,840	4.4 9,840	8.2 / 26.7
	4.5 15'					*6.0 *13,100	*6.0 *13,100	*5.7 *12,440	5.0 10,810				*4.5 *9,920	3.9 8,560	8.8 / 28.8
	3.0 10'	*9.2 *19,870	*9.2 *19,870	*7.3 *15,760	6.8 14,590	*6.3 *13,800	4.8 10,440						*4.7 *10,370	3.6 7,890	9.1 / 29.9
	1.5 5'	*11.7 *25,290	9.7 20,900	*8.6 *18,560	6.4 13,830	7.0 15,100	4.7 10,040	5.3 11,480	3.6 7,670				*5.1 *11,210	3.5 7,620	9.2 / 30.1
	0 0'	*13.3 *28,770	9.3 19,920	9.6 20,570	6.1 13,250	6.8 14,740	4.5 9,720						5.3 11,600	3.5 7,710	9.0 / 29.4
	-1.5 -5'	*13.9 *30,050	9.1 19,540	9.4 20,220	6.0 12,940	6.8 14,540	4.4 9,530						5.6 12,440	3.7 8,220	8.5 / 27.9
	-3.0 -10'	*13.6 *29,380	9.1 19,550	9.4 20,170	6.0 12,900	6.8 14,570	4.4 9,560						6.5 14,330	4.2 9,410	7.7 / 25.3
-4.5 -15'	*12.3 *26,400	9.2 19,920	*9.1 *19,400	6.1 13,170								*8.1 *17,970	5.4 12,210	6.5 / 21.1	

- 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 2

Batteries, 2 x 12 V / 200 Ah

Start motor, 24 V / 4.8 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

5,300 kg, **11,690 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

– Tinted glass

– Door locks

– 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: 6.0 m, **19' 8"**

Arm: 2.97 m, **9' 9"**

OPTIONAL EQUIPMENT *(Standard in certain markets)*

Engine

Block heater: 120 V

Diesel coolant heater

Tropical cooling kit

Oil bath precleaner

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, S2 size

Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32

Hydraulic oil, biodegradable 46

Superstructure

Full height counterweight

4,600 kg, **10,140 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

700 mm, **28"** track shoe with double grouser

Digging equipment

Boom: 6.0 m, **19' 8"** heavy-duty

Arm: 2.5 m, **8' 2"**

3.6 m, **11' 10"**

2.97 m, **9' 9"** heavy-duty

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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