

VOLVO EXCAVATOR

EC360B LC



- **Engine power, gross:**
198 kW 265 hp
- **Operating weight:**
36.5 ~ 38.4 t
80,480 ~ 84,580 lb
- **Buckets (SAE):**
1,600 ~ 3,000 l
2.09 ~ 3.92 yd³
- Turbocharged Volvo diesel engine with direct injection and charged air cooler meets EPA Tier 2 emission standards
- Contronics advanced mode selection system and electronically-controlled system
- Two variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by "Automatic Sensing Work Mode."
- Cab
 - Ergonomic environment
 - Low sound level
 - Filtered air
- Hydraulic dampening mounts
- Fabric seat with heater and air suspension
- Strong digging equipment produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Auxiliary hydraulic valve as standard
- Prepared for a number of optional items

VOLVO



ENGINE

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

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

Air Filter: 3-stage, includes pre-cleaner

Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise level.

Low-Emission Engine

Make	VOLVO	
Model	D10B EAE2	
Power output at	28 r/s	1,700 rpm
Net (ISO 9249/ DIN 6271)	184 kW	247 hp
Gross (SAE J1349)	198 kW	265 hp
Max. torque	1,255 N·m at 1,400 rpm	926 lb·ft at 1,400 rpm
No. of cylinders	6	
Displacement	9.6 l	586 cu.in
Bore	120.65 mm	4.75"
Stroke	140 mm	5.51"



ELECTRICAL SYSTEM

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

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

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



SERVICE REFILL CAPACITIES

Fuel tank	620 l	164 gal
Hydraulic system, total	500 l	132 gal
Hydraulic tank	220 l	58 gal
Engine oil	39.5 l	10 gal
Engine coolant	58.7 l	16 gal
Swing reduction unit	6.0 l	1.6 gal
Travel reduction unit	2 x 5.5 l	2 x 1.5 gal



SWING SYSTEM

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

Max. swing speed 9.7 rpm



DRIVE

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

Max. drawbar pull (tractive effort) ... 256.9 kN

57,770 lb

Max. travel speed 3.3/4.5 km/h

2.1/2.8 mph

Gradeability 35° 70%



UNDERCARRIAGE

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

No. of track pads 2 x 50

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 9

No. of top rollers 2 x 2



GROUND PRESSURE

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

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	36,500 kg 80,480 lb	65.7 kPa 9.5 psi	3,340 mm 10' 11"
	700 mm 28"	36,940 kg 81,450 lb	56.9 kPa 8.3 psi	3,440 mm 11' 3"
	800 mm 32"	37,370 kg 82,400 lb	51.0 kPa 7.4 psi	3,540 mm 11' 7"
	900 mm 36"	37,810 kg 83,370 lb	46.1 kPa 6.7 psi	3,640 mm 11' 11"
Double grouser	600 mm 24"	36,610 kg 80,730 lb	65.7 kPa 9.5 psi	3,340 mm 10' 11"

- Machine with Std. HD 6.45 m, 21' 2" boom, Std. HD 3.2 m, 10' 6" arm, 1,460 kg, 3,220 lb bucket and 7,250 kg, 15,990 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	37,050 kg 81,700 lb	66.7 kPa 9.7 psi	3,340 mm 10' 11"
	700 mm 28"	37,490 kg 82,670 lb	57.9 kPa 8.4 psi	3,440 mm 11' 3"
	800 mm 32"	37,920 kg 83,610 lb	51.0 kPa 7.4 psi	3,540 mm 11' 7"
	900 mm 36"	38,360 kg 84,580 lb	46.1 kPa 6.7 psi	3,640 mm 11' 11"
Double grouser	600 mm 24"	37,160 kg 81,940 lb	66.7 kPa 9.7 psi	3,340 mm 10' 11"

MAX. PERMITTED BUCKETS

Note: 1. Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose.
2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.

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

Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 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	2,875, 3.76	2,700, 3.53	2,500, 3.27	2,275, 2.98
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,500, 3.27	2,375, 3.11	2,175, 2.84	1,975, 2.58
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,300, 3.01	2,175, 2.84	2,000, 2.62	1,825, 2.39
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	2,150, 2.81	2,025, 2.65	1,875, 2.45	1,700, 2.22

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

Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 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	2,725, 3.56	2,575, 3.37	2,350, 3.07	2,125, 2.78
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,375, 3.11	2,250, 2.94	2,050, 2.68	1,875, 2.45
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,200, 2.88	2,075, 2.71	1,900, 2.49	1,725, 2.26
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	2,050, 2.68	1,925, 2.52	1,775, 2.32	1,600, 2.09

- Max. permitted sizes for pin-on buckets:
Counterweight 7,250 kg, 15,990 lb

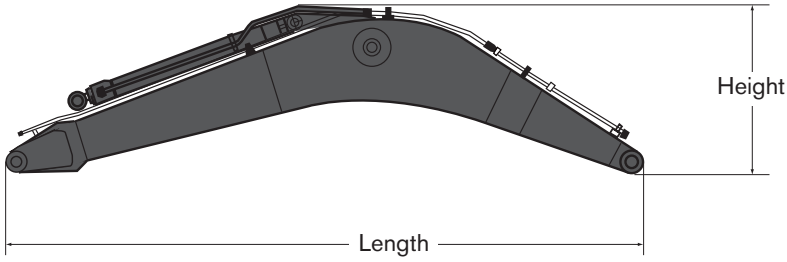
Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 3.2 m, 10' 6"	3.9 m, 12' 10"
GP bucket 1.5 t/m ³ , 2,530 lb/yd ³	l, yd ³	3,000, 3.92	2,825, 3.70	2,600, 3.40	2,375, 3.11
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,625, 3.43	2,475, 3.24	2,275, 2.98	2,075, 2.71
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,425, 3.17	2,300, 3.01	2,100, 2.75	1,925, 2.52
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	2,250, 2.94	2,125, 2.78	1,950, 2.55	1,775, 2.32

- Max. permitted sizes for hook-on buckets:
Counterweight 7,250 kg, 15,990 lb

Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 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	2,850, 3.73	2,700, 3.53	2,475, 3.24	2,250, 2.94
GP bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,500, 3.27	2,375, 3.11	2,175, 2.84	1,950, 2.55
RB bucket 1.8 t/m ³ , 3,030 lb/yd ³	l, yd ³	2,300, 3.01	2,175, 2.84	2,000, 2.62	1,800, 2.35
RB bucket 2.0 t/m ³ , 3,370 lb/yd ³	l, yd ³	2,150, 2.81	2,025, 2.65	1,850, 2.42	1,675, 2.19

DIMENSIONS

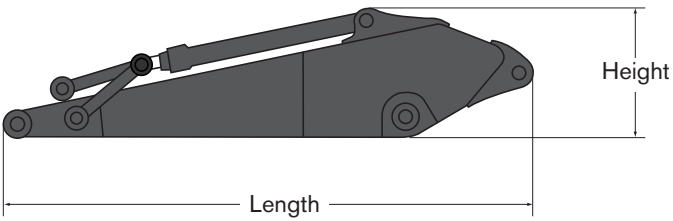
• Boom



Description	ME 6.2 m, 20' 4"	Std. HD 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	3,210 kg, 7,080 lb

* Includes cylinder, pin and piping

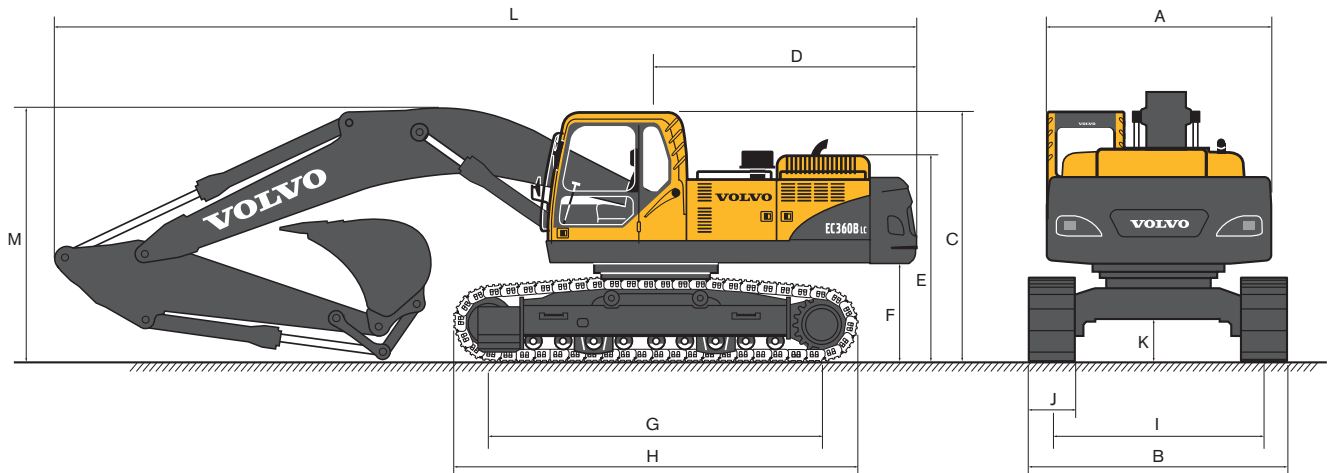
• Arm



Description	2.6 m, 8' 6"	Std. HD 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	2,025 kg, 4,470 lb	2,165 kg, 4,770 lb

* Includes cylinder, piping and linkage

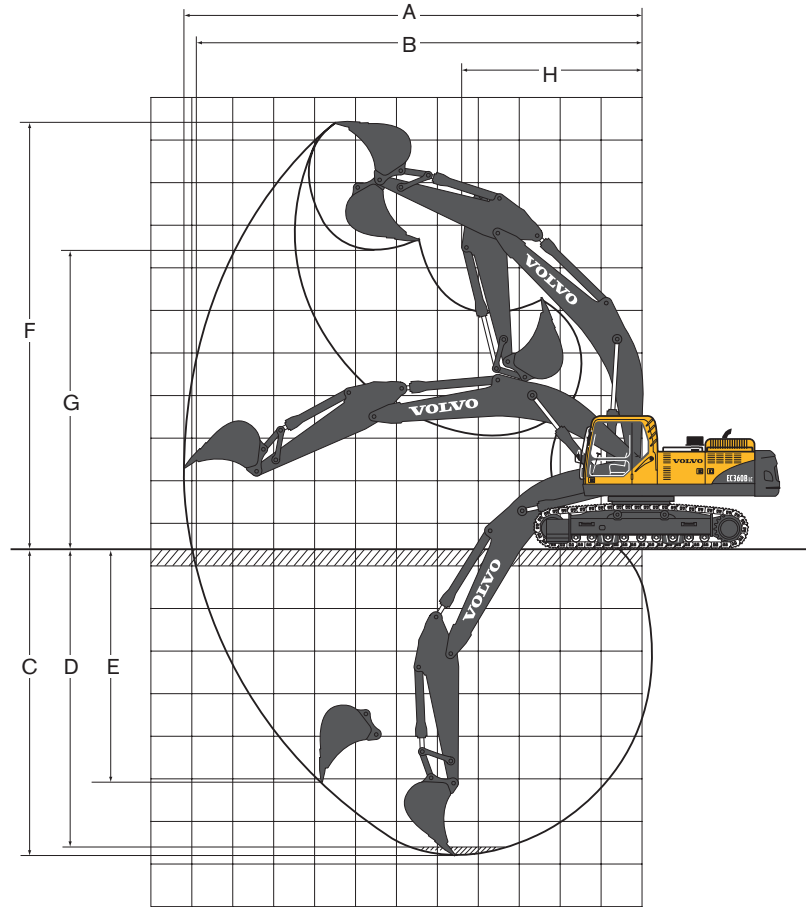
DIMENSIONS



Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 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	3,540, 11' 7"	3,540, 11' 7"	3,540, 11' 7"	3,540, 11' 7"
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	4,240, 13' 11"	4,240, 13' 11"	4,240, 13' 11"	4,240, 13' 11"
H. Track length	mm, ft-in	5,180, 17' 0"	5,180, 17' 0"	5,180, 17' 0"	5,180, 17' 0"
I. Track gauge	mm, ft-in	2,740, 9' 0"	2,740, 9' 0"	2,740, 9' 0"	2,740, 9' 0"
J. Shoe width	mm, in	800, 32"	800, 32"	800, 32"	800, 32"
K. Min. ground clearance *	mm, ft-in	500, 1' 8"	500, 1' 8"	500, 1' 8"	500, 1' 8"
L. Overall length	mm, ft-in	10,910, 35' 10"	11,160, 36' 7"	11,070, 36' 4"	11,120, 36' 6"
M. Overall height of boom	mm, ft-in	3,700, 12' 2"	3,580, 11' 9"	3,350, 11' 0"	3,590, 11' 9"

* Without shoe grouser

WORKING RANGES & DIGGING FORCES



• Machine with pin-on bucket:

Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 3.2 m, 10' 6"	3.9 m, 12' 10"
A. Max. digging reach	mm, ft-in	10,480, 34' 5"	10,660, 35' 0"	11,180, 36' 8"	11,820, 38' 9"
B. Max. digging reach on ground	mm, ft-in	10,250, 33' 8"	10,440, 34' 3"	10,970, 36' 0"	11,620, 38' 1"
C. Max. digging depth	mm, ft-in	6,720, 22' 1"	6,890, 22' 7"	7,490, 24' 7"	8,200, 26' 11"
D. Max. digging depth (8° level)	mm, ft-in	6,540, 21' 5"	6,690, 21' 11"	7,320, 24' 0"	8,050, 26' 5"
E. Max. vertical wall digging depth	mm, ft-in	4,800, 15' 9"	5,110, 16' 9"	5,510, 18' 1"	6,140, 20' 2"
F. Max. cutting height	mm, ft-in	10,070, 33' 0"	10,160, 33' 4"	10,320, 33' 10"	10,600, 34' 9"
G. Max. dumping height	mm, ft-in	6,830, 22' 5"	7,050, 23' 2"	7,240, 23' 9"	7,520, 24' 8"
H. Min. front swing radius	mm, ft-in	4,180, 13' 9"	4,380, 14' 4"	4,340, 14' 3"	4,320, 14' 2"

• Digging forces with pin-on bucket:

Boom	Unit	ME 6.2 m, 20' 4"	Std. HD 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. HD 3.2 m, 10' 6"	3.9 m, 12' 10"
Bucket tip radius	mm, in	1,810, 71"	1,623, 64"	1,623, 64"	1,623, 64"
Breakout force – bucket (Normal/Power boost)	SAE kN lb	208.0/228.0 46,970/51,380	192.0/209.0 43,220/47,190	192.0/209.0 43,220/47,190	192.0/209.0 43,220/47,190
Teaout force – arm (Normal/Power boost)	SAE kN lb	182.0/200.0 41,010/44,980	190.0/207.0 42,780/46,750	157.0/172.0 35,500/38,810	137.0/150.0 30,870/33,740
Rotation angle, bucket	deg	164°	177°	177°	177°

LIFTING CAPACITY (At the arm end without bucket)

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

EC360B LC (Std. shoe 800 mm, 32", counterweight 6,700 kg, 14,770 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		Max. m / ft				
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb					
Std. HD boom 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'									*8.5	*16,050	8.0	*16,050					*7.1	*15,800	*7.1	*15,800	7.0 / 22.7
	6.0 20'									*9.3	*20,420	7.9	17,050					*6.9	*15,320	6.3	14,000	8.0 / 26.0
	4.5 15'	*14.2	*30,390	*14.2	*30,390	*11.4	*24,740	10.8	23,380	*10.1	*21,960	7.7	16,550					*7.0	*15,430	5.6	12,370	8.6 / 28.0
	3.0 10'	*18.3	*39,250	15.6	33,670	*13.4	*28,940	10.2	22,070	*11.1	*24,120	7.4	15,900	8.7	18,780	5.6	12,030	*7.3	*16,060	5.2	11,530	8.8 / 29.0
	1.5 5'	*21.3	*45,900	14.6	31,510	*15.1	*32,720	9.7	20,930	11.3	24,280	7.1	15,290	8.6	18,460	5.5	11,740	*7.8	*17,260	5.1	11,240	8.9 / 29.1
	0 0'	*21.8	*48,450	14.2	30,600	15.6	33,440	9.4	20,210	11.0	23,790	6.9	14,850	8.5	18,250	5.4	11,550	8.2	18,130	5.2	11,470	8.6 / 28.2
	-1.5 -5'	*22.1	*47,930	14.2	30,450	15.4	33,120	9.2	19,930	11.0	23,580	6.8	14,670					8.9	19,600	5.6	12,350	8.1 / 26.5
	-3.0 -10'	*20.7	*44,820	14.3	30,780	15.5	33,260	9.3	20,060	11.0	23,770	6.9	14,830					10.3	22,810	6.4	14,290	7.2 / 23.5
-4.5 -15'	*17.7	*38,160	14.7	31,600	*13.3	*28,440	9.6	20,680									*11.6	*25,520	8.4	18,760	5.8 / 18.8	
Std. HD Boom 6.45 m 21' 2" + Std. HD arm 3.2 m 10' 6"	7.5 25'									*8.3	*15,690	7.9	*15,690					*7.0	*15,440	*7.0	*15,440	7.7 / 25.0
	6.0 20'									*9.2	*20,210	7.8	16,850					*6.8	*14,960	6.2	13,810	8.6 / 28.0
	4.5 15'	*14.1	*30,220	*14.1	*30,220	*11.3	*24,550	10.8	23,200	*10.0	*21,760	7.6	16,370					*6.8	*15,070	5.5	12,190	9.1 / 29.8
	3.0 10'	*18.3	*39,180	15.6	33,620	*13.3	*28,800	10.2	21,940	*11.0	*23,940	7.3	15,740	8.6	18,600	5.5	11,860	*7.1	*15,700	5.1	11,350	9.4 / 30.8
	1.5 5'	*21.3	*45,890	14.6	31,540	*15.1	*32,620	9.7	20,840	11.2	24,130	7.0	15,150	8.5	18,290	5.4	11,580	*7.7	*16,890	5.0	11,070	9.4 / 30.8
	0 0'	*21.6	*48,460	14.3	30,660	15.5	33,370	9.3	20,140	11.0	23,650	6.8	14,720	8.4	18,080	5.3	11,390	8.1	17,960	5.1	11,310	9.2 / 30.1
	-1.5 -5'	*22.1	*47,940	*14.2	30,500	15.4	33,050	9.2	19,860	10.9	23,450	6.7	14,540					8.8	19,440	5.5	12,190	8.7 / 28.4
	-3.0 -10'	*20.7	*44,810	14.3	30,800	15.4	33,180	9.3	19,970	11.0	23,620	6.8	14,690					10.2	22,660	6.4	14,140	7.9 / 25.7
-4.5 -15'	*17.7	*38,110	14.7	31,570	*13.3	*28,310	9.5	20,560									*11.5	*25,370	8.3	18,620	6.6 / 21.5	
Std. HD boom 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'									*8.2	*15,530	*7.8	*15,530					*6.9	*15,280	*6.9	*15,280	8.5 / 27.6
	6.0 20'									*9.1	*19,980	7.8	16,660					*6.7	*14,790	6.1	13,620	9.3 / 30.3
	4.5 15'	*14.0	*29,950	*14.0	*29,950	*11.2	*24,300	10.7	22,980	*9.9	*21,520	7.5	16,170					*6.8	*14,890	5.4	12,000	9.8 / 32.0
	3.0 10'	*18.1	*38,870	15.5	33,340	*13.2	*28,530	10.1	21,700	*10.9	*23,690	7.2	15,530	8.6	18,400	5.4	11,660	*7.0	*15,520	5.1	11,150	10.0 / 32.9
	1.5 5'	*21.1	*45,560	14.5	31,240	*14.9	*32,330	9.5	20,590	11.1	23,910	6.9	14,920	8.4	18,080	5.3	11,370	*7.6	*16,710	4.9	10,870	10.1 / 33.0
	0 0'	*21.6	*48,130	14.1	30,350	15.4	33,110	9.2	19,880	10.9	23,420	6.7	14,490	8.3	17,870	5.2	11,180	8.1	17,750	5.0	11,100	9.8 / 32.3
	-1.5 -5'	*22.0	*47,610	14.0	30,190	15.3	32,790	9.1	19,600	10.8	23,220	6.6	14,310					8.7	19,220	5.4	11,980	9.4 / 30.7
	-3.0 -10'	*20.5	*44,480	14.2	30,500	15.3	32,920	9.1	19,720	10.9	23,400	6.7	14,470					10.1	22,440	6.3	13,920	8.6 / 28.2
-4.5 -15'	*17.6	*37,790	14.5	31,290	*13.2	*28,030	9.4	20,320									*11.4	*25,100	8.2	18,390	7.5 / 24.5	

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

LIFTING CAPACITY (At the arm end without bucket)

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

EC360B 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.		
		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'					*10.4	*23,020	*10.4	*23,020									*10.3	*22,880	9.6	21,600	6.8 / 21.8
	6.0 20'					*11.0	*23,920	*11.0	*23,920	*10.5	*23,110	8.0	17,180					*9.9	*21,870	7.6	16,920	7.7 / 25.2
	4.5 15'	*15.7	*33,620	*15.7	*33,620	*12.4	*26,970	11.1	23,840	*11.0	*23,930	7.8	16,890					*10.0	*21,910	6.6	14,660	8.3 / 27.2
	3.0 10'	*19.7	*42,230	16.0	34,600	*14.3	*30,860	10.5	22,720	*11.8	25,500	7.6	16,380					9.5	21,020	6.1	13,570	8.6 / 28.2
	1.5 5'	*21.0	*47,870	15.3	32,900	*15.8	*34,190	10.1	21,780	11.6	24,960	7.4	15,890					9.4	20,640	6.0	13,260	8.6 / 28.3
	0 0'	*22.7	*49,100	15.0	32,320	16.1	34,650	9.9	21,240	11.4	24,620	7.2	15,580					9.7	21,380	6.2	13,660	8.4 / 27.5
	-1.5 -5'	*21.8	*47,320	15.0	32,360	16.1	34,500	9.8	21,110	11.4	24,590	7.2	15,560					10.7	23,630	6.8	15,010	7.9 / 25.7
	-3.0 -10'	*19.7	*42,530	15.3	32,820	*14.9	*32,050	9.9	21,410									*12.2	*26,990	8.2	18,130	6.9 / 22.6
-4.5 -15'	*15.2	*32,260	*15.2	*32,260														*12.0	*26,350	11.8	*26,350	5.5 / 17.6
Std. HD boom 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'									*8.5	*16,050	8.3	*16,050					*7.1	*15,800	*7.1	*15,800	7.0 / 22.7
	6.0 20'									*9.3	*20,420	8.2	17,720					*6.9	*15,320	6.6	14,580	8.0 / 26.0
	4.5 15'	*14.2	*30,390	*14.2	*30,390	*11.4	*24,740	11.3	24,270	*10.1	*21,960	8.0	17,220					*7.0	*15,430	5.8	12,910	8.6 / 28.0
	3.0 10'	*18.3	*39,250	16.2	35,000	*13.4	*28,940	10.6	22,960	*11.1	*24,120	7.7	16,570	9.0	19,450	5.8	12,570	*7.3	*16,060	5.5	12,050	8.8 / 29.0
	1.5 5'	*21.3	*45,900	15.2	32,840	*15.1	*32,720	10.1	21,820	11.7	25,130	7.4	15,960	8.9	19,130	5.7	12,280	*7.8	*17,260	5.3	11,760	8.9 / 29.1
	0 0'	*21.8	*48,450	14.8	31,930	16.1	34,620	9.8	21,100	11.4	24,640	7.2	15,520	8.8	18,920	5.6	12,080	8.5	18,790	5.4	12,010	8.6 / 28.2
	-1.5 -5'	*22.1	*47,930	14.8	31,780	16.0	34,300	9.7	20,820	11.3	24,440	7.1	15,340					9.2	20,320	5.9	12,920	8.1 / 26.5
	-3.0 -10'	*20.7	*44,820	14.9	32,110	*15.7	*33,870	9.7	20,950	11.4	24,620	7.2	15,500					10.7	23,630	6.7	14,940	7.2 / 23.5
-4.5 -15'	*17.7	*38,160	15.3	32,930	*13.3	*28,440	10.0	21,570									*11.6	*25,520	8.7	19,570	5.8 / 18.8	
Std. HD boom 6.45 m 21' 2" + Std. HD arm 3.2 m 10' 6"	7.5 25'									*8.3	*15,690	*8.2	*15,690					*7.0	*15,440	*7.0	*15,440	7.7 / 25.0
	6.0 20'									*9.2	*20,210	8.1	17,520					*6.8	*14,960	6.5	14,400	8.6 / 28.0
	4.5 15'	*14.1	*30,220	*14.1	*30,220	*11.3	*24,550	11.2	24,090	*10.0	*21,760	7.9	17,040					*6.8	*15,070	5.8	12,730	9.1 / 29.8
	3.0 10'	*18.3	*39,180	16.2	34,950	*13.3	*28,800	10.6	22,830	*11.0	*23,940	7.6	16,410	9.0	19,270	5.8	12,400	*7.1	*15,700	5.4	11,870	9.4 / 30.8
	1.5 5'	*21.3	*45,890	15.3	32,870	*15.1	*32,620	10.1	21,730	11.6	24,980	7.3	15,820	8.8	18,960	5.6	12,110	*7.7	*16,890	5.3	11,590	9.4 / 30.8
	0 0'	*21.6	*48,460	14.9	31,990	16.1	34,560	9.8	21,030	11.4	24,510	7.1	15,390	8.7	18,750	5.5	11,920	8.4	18,620	5.4	11,850	9.2 / 30.1
	-1.5 -5'	*22.1	*47,940	14.8	31,830	15.9	34,230	9.6	20,760	11.3	24,310	7.1	15,210					9.1	20,150	5.8	12,770	8.7 / 28.4
	-3.0 -10'	*20.7	*44,810	14.9	32,130	*15.6	*33,770	9.7	20,860	11.4	24,480	7.1	15,360					10.6	23,480	6.8	14,790	7.9 / 25.7
-4.5 -15'	*17.7	*38,110	15.3	32,900	*13.3	*28,310	9.9	21,450									*11.5	*25,370	8.7	19,430	6.6 / 21.5	
Std. HD boom Std. 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'									*8.2	*15,530	8.1	*15,530					*6.9	*15,280	*6.9	*15,280	8.5 / 27.6
	6.0 20'									*9.1	*19,980	8.1	17,330					*6.7	*14,790	6.4	14,210	9.3 / 30.3
	4.5 15'	*14.0	*29,950	*14.0	*29,950	*11.2	*24,300	11.1	23,870	*9.9	*21,520	7.8	16,840					*6.8	*14,890	5.7	12,530	9.8 / 32.0
	3.0 10'	*18.1	*38,870	16.1	34,670	*13.2	*28,530	10.5	22,590	*10.9	*23,690	7.5	16,200	8.9	19,070	5.7	12,200	*7.0	*15,520	5.3	11,670	10.0 / 32.9
	1.5 5'	*21.1	*45,560	15.1	32,570	*14.9	*32,330	10.0	21,480	11.5	24,760	7.2	15,590	8.7	18,750	5.5	11,910	*7.6	*16,710	5.2	11,390	10.1 / 33.0
	0 0'	*21.6	*48,130	14.7	31,680	16.0	34,290	9.6	20,770	11.3	24,280	7.0	15,160	8.6	18,540	5.4	11,710	8.4	18,410	5.3	11,640	9.8 / 32.3
	-1.5 -5'	*22.0	*47,610	14.7	31,520	15.8	33,970	9.5	20,500	11.2	24,070	6.9	14,980					9.0	19,940	5.7	12,550	9.4 / 30.7
	-3.0 -10'	*20.5	*44,480	14.8	31,830	*15.5	*33,480	9.6	20,610	11.3	24,250	7.0	15,140					10.5	23,260	6.6	14,570	8.6 / 28.2
-4.5 -15'	*17.6	*37,790	15.2	32,620	*13.2	*28,030	9.8	21,210									*11.4	*25,100	8.6	19,200	7.5 / 24.5	

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

STANDARD EQUIPMENT

Engine

Turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EPA (Environment Protection Agency) Tier 2 emission standards
3-stage air filter with indicator, including pre-cleaner
Air intake heater
Electric engine shut-off
Fuel filter and water separator
Coolant filter
Alternator, 55 A

Electric/Electronic control system

Contronics
– Advanced mode control system
– Self-diagnostic system
Machine status indication
Engine speed sensing power control
Automatic idling system
One-touch power boost
Safety stop/start function
Travel alarm
Adjustable monitor
Master switch

Engine restart prevention circuit
High-capacity halogen lights:
– Frame mounted 2
– Boom mounted 4
Batteries, 2 x 12 V / 200 Ah
Start motor, 24 V / 6.6 kW

Hydraulic system

Automatic hydraulic system
– Summation system
– Boom priority
– Arm priority
– Swing priority
Boom and arm regeneration valves
Swing anti-rebound valves
Boom and arm holding valves
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: HD 6.45 m, **21' 2"**
Arm: HD 3.2 m, **10' 6"**

OPTIONAL EQUIPMENT *(Standard in certain markets)*

Engine

Alternator, 80 A
Block heater: 120 V
Oil bath pre-cleaner
Diesel coolant heater
Tropical cooling kit
Fuel 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:
1 pump flow
2 pump flow
Additional return filter
Extra piping for slope & rotator
– Slope & rotator
– Grapple
– Oil leak (drain) line
– Quick coupler piping
Volvo hydraulic quick-coupler, S3 size
Hydraulic oil, ISO VG 32
Hydraulic oil, ISO VG 68
Hydraulic oil, biodegradable 32
Hydraulic oil, biodegradable 46

Cab and interior

Fabric seat
Control joystick with semi-long levers
Control joystick with 5 switches each
Pilot control pattern change
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
Walk way

Superstructure

Full height counterweight
6,700 kg, **14, 770 lb**
7,800 kg, **17, 200 lb**
Hydraulic removable counterweight

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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