

**VOLVO EXCAVATOR**

# EC360



- **Engine power, gross:**  
198 kW 265 hp
- **Operating weight:**  
36.8 ~ 38.1 t  
81140 ~ 84030 lb
- **Buckets (SAE):**  
1525 ~ 2975 l  
1.99 ~ 3.89 yd<sup>3</sup>
- Low-emission, turbocharged Cummins diesel engine with direct injection
- Integrated mode selection system and electronically controlled system (ACS)
- 2 variable displacement axial piston pumps. Independent and simultaneous movements of the digging equipment are controlled by the "Automatic sensing work mode."
- Cab
  - Ergonomic environment
  - Low sound level
  - Filtered air
  - Hydraulic dampening mounts
- Strong attachment, produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Long undercarriage for good stability
- Prepared for a number of optional items

**VOLVO**



## ENGINE

The engine is a low-emission turbocharged, 4-stroke diesel engine with water cooling, direct injection and aftercooler, especially developed for excavator use.

The machine can work at any job site, contributing to good fuel economy, low sound level, less wear and a longer life.

**Air filter:** 3-stage, includes pre-cleaner

**Automatic idling system:** Reduces the engine speed to an idling speed when levers and pedals are not activated.

Maker .....	CUMMINS	
Model .....	M11-C	
Power output at .....	28 r/s	<b>1700 rpm</b>
Net (ISO 9249/DIN 6271) ...	184 kW	<b>247 hp</b>
Gross (SAE J1349) .....	198 kW	<b>265 hp</b>
Max. torque .....	1177 N-m at 1300 rpm	
	<b>868 lb-ft at 1300 rpm</b>	
No. of cylinders .....	6	
Displacement .....	10.8 l	<b>659 cu.in</b>
Bore .....	125 mm	<b>4.92"</b>
Stroke .....	147 mm	<b>5.79"</b>



## ELECTRICAL SYSTEM

Well-protected electrical system with high capacity.

Double lock harness plugs are waterproof to ensure secure connections and prevent corrosion.

The relays and solenoid valves are shielded to prevent accidental damage or terminal contact.

The master switch, for disconnecting the battery, is standard.

**ACS system,** providing integrated mode selection functions and self-diagnostic mode, is standard.

Voltage .....	24 V
Batteries .....	2 x 12 V
Battery capacity .....	200 Ah
Alternator .....	24 V / 50 A



## SERVICE REFILL CAPACITIES

Fuel tank .....	565 l	<b>149 gal</b>
Hydraulic system, total .....	500 l	<b>132 gal</b>
Hydraulic tank .....	235 l	<b>62 gal</b>
Engine oil .....	34 l	<b>9 gal</b>
Engine coolant .....	49 l	<b>13 gal</b>
Swing reduction unit .....	6 l	<b>1.6 gal</b>
Travel reduction units .....	2 x 5.5 l	<b>2 x 1.5 gal</b>



## SWING SYSTEM

The superstructure is swung by the means of an axial piston motor and a planetary reduction unit. Automatic swing holding brake is standard.

Max. swing speed ..... 9.5 rpm



## UNDERCARRIAGE

The undercarriage has an X-shaped frame.

The greased and sealed track chain is standard.

No. of track pads .....	2 x 50	
Link pitch .....	216 mm	<b>8.5"</b>
Shoe width, triple grouser .....	600 / 700 / 800 (Std.) / 900 mm	
	<b>24" / 28" / 32" (Std.) / 36"</b>	
Shoe width, double grouser ...	600 mm	<b>24"</b>
No. of lower track rollers .....	2 x 9	
No. of upper rollers .....	2 x 2	



## DRIVE

Each track is powered by an automatic two-speed travel motor.

The track brakes are multi-disc, spring-applied and hydraulic-released.

The travel motors, brake and planetary gears are well-protected in the track frame.

Max. tractive effort .....	256.9 kN	<b>57,770 lb</b>
Max. travel speed(1st/2nd) .....	3.2 / 4.4 km/h	<b>2.0 / 2.7 mph</b>
Gradeability .....	35°	<b>70 %</b>



## HYDRAULIC SYSTEM

The hydraulic system, named "Automatic Sensing Work Mode", is designed for high productivity, high digging capacity, high maneuvering precision and good fuel economy.

The summation system, boom priority, arm priority, swing priority, and regeneration system of the boom and arm flows are provided for the best operation.

**The following important functions are included in the system;**

**Summation system:** Providing full use of the pump oil flow.

**Boom priority:** Providing priority to the boom operation for fast raising during loading or deep excavation.

**Arm priority:** Providing priority to the arm operation for faster cycle times during leveling and for increased bucket filling factors while digging.

**Swing priority:** Providing priority to the swing operation for faster swing during simultaneous operations.

**Regeneration system:** Enhancing the cylinder life cycle, preventing cavitation and providing priority to other movements during simultaneous operations.

**Power boost:** All digging and lifting forces are increased.

**Holding valves:** Boom and arm holding valves are standard.

**Power Max:** All function speeds are increased.

### Pumps

#### Main pumps:

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 ..... 25.5 l/min **6.7 gpm**

### Hydraulic motors

Travel ..... 2 x variable displacement axial piston motors

Swing ..... Fixed displacement piston motor with mechanical brake

### Relief valve setting

Attachment ..... 31.4/34.3 MPa **4550/4980 psi**

Travel circuit ..... 34.3 MPa **4980 psi**

Swing circuit ..... 25.5 MPa **3700 psi**

Pilot circuit ..... 3.9 MPa **570 psi**

### Hydraulic cylinders

Boom ..... 2

bore x stroke ..... Ø 160 mm x 1530 mm  
**Ø 6.3" x 60.2"**

Arm ..... 1

bore x stroke ..... Ø 170 mm x 1760 mm  
**Ø 6.7" x 69.3"**

Bucket ..... 1

bore x stroke ..... Ø 150 mm x 1305 mm  
**Ø 5.9" x 51.4"**



## CAB

Easily accessible cab with a wide door and lined with sound-absorbing material.

The cab, which is supported by hydraulic dampening mounts to reduce shock and vibration, has all-around visibility.

The front windshield can slide up into the ceiling, and the lower front glass can be removed.

### Integrated air-conditioning and heating system:

The pressurized and filtered cab air is supplied by a 4-speed fan.

The air is distributed via 8 vents.

**Ergonomic operator's seat:** The adjustable seat and control consoles move independently to accommodate the operator well.

The seat has eight different adjustments and a seat belt to meet any operator's requirement.

**Sound level (Preliminary):** According to the Directive 86/662/EEC.

Exterior noise (ISO 6395)

mean value of  $L_{WA}$  (sound power level) 105 dB(A)

Operator's position (ISO 6396)

with the door closed

mean value of  $L_{PA}$  (sound pressure level) 77 dB(A)

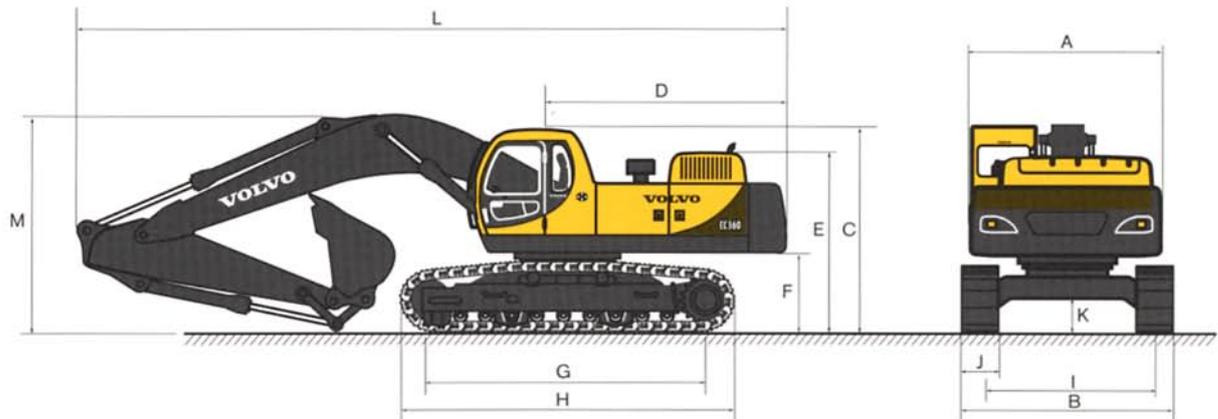


## GROUND PRESSURE

• Machine with Std. 6.45 m, 21' 2" boom, Std. 3.1 m, 10' 2" arm, 1460 kg, 3,220 lb bucket and 7000 kg, 15,440 lb counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	36800 kg 81,140 lb	65.7 kPa 9.5 psi	3350 mm 11' 0"
	700 mm 28"	37240 kg 82,110 lb	56.9 kPa 8.3 psi	3450 mm 11' 4"
	Std. 800 mm Std. 32"	37670 kg 83,060 lb	51.0 kPa 7.4 psi	3550 mm 11' 8"
	900 mm 36"	38110 kg 84,030 lb	45.1 kPa 6.5 psi	3650 mm 12' 0"
Double grouser	600 mm 24"	36910 kg 81,390 lb	65.7 kPa 9.5 psi	3350 mm 11' 0"

## DIMENSIONS

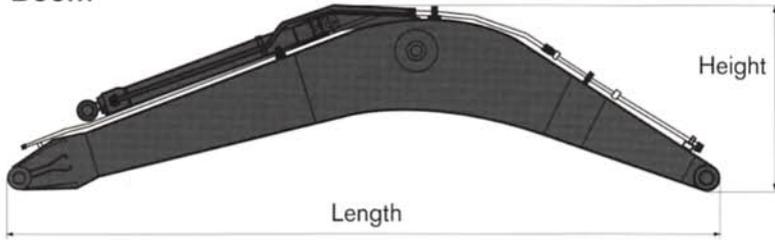


Boom	unit	6.0 m, 19' 8"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.1 m, 10' 2"	3.9 m, 12' 10"
A. Overall width of upper structure	mm, ft-in	2970, 9' 9"	2970, 9' 9"	2970, 9' 9"	2970, 9' 9"
B. Overall width	mm, ft-in	3550, 11' 8"	3550, 11' 8"	3550, 11' 8"	3550, 11' 8"
C. Overall height of cab	mm, ft-in	3190, 10' 6"	3190, 10' 6"	3190, 10' 6"	3190, 10' 6"
D. Tail swing radius	mm, ft-in	3380, 11' 1"	3380, 11' 1"	3380, 11' 1"	3380, 11' 1"
E. Overall height of engine hood	mm, ft-in	2810, 9' 3"	2810, 9' 3"	2810, 9' 3"	2810, 9' 3"
F. Counterweight clearance*	mm, ft-in	1230, 4' 0"	1230, 4' 0"	1230, 4' 0"	1230, 4' 0"
G. Tumbler length	mm, ft-in	4240, 13' 11"	4240, 13' 11"	4240, 13' 11"	4240, 13' 11"
H. Track length	mm, ft-in	5180, 17' 0"	5180, 17' 0"	5180, 17' 0"	5180, 17' 0"
I. Track gauge	mm, ft-in	2750, 9' 0"	2750, 9' 0"	2750, 9' 0"	2750, 9' 0"
J. Shoe width-Std.	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	10710, 35' 2"	11160, 36' 7"	11090, 36' 5"	11130, 36' 6"
M. Overall height of boom	mm, ft-in	3620, 11' 11"	3630, 11' 11"	3460, 11' 4"	3800, 12' 6"

\* Without shoe grouser

## DIMENSIONS

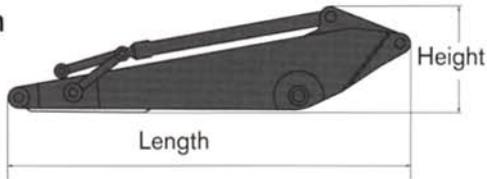
### • Boom



Description	6.0 m, 19' 8"	Std. 6.45 m, 21' 2"
Length	6250 mm, 20' 6"	6700 mm, 22' 0"
Height	1760 mm, 5' 9"	1800 mm, 5' 11"
Width	820 mm, 2' 8"	820 mm, 2' 8"
Weight *	3215 kg, 7,090 lb	3280 kg, 7,230 lb

\* Includes cylinder, piping and pin

### • Arm



Description	2.6 m, 8' 6"	Std. 3.1 m, 10' 2"	3.9 m, 12' 10"
Length	3780 mm, 12' 5"	4260 mm, 14' 0"	5080 mm, 16' 8"
Height	1145 mm, 3' 9"	1145 mm, 3' 9"	1140 mm, 3' 9"
Width	560 mm, 1' 10"	560 mm, 1' 10"	560 mm, 1' 10"
Weight *	1885 kg, 4,160 lb	2000 kg, 4,410 lb	2255 kg, 4,970 lb

\* Includes cylinder, linkage and pins

## BUCKET & ARM COMBINATION

*Note: Bucket size based on SAE-J296, heaped material with a 1:1 angle of repose.*

### • Max. permitted sizes for pin on buckets:

Counterweight: 7000 kg, 15,440 lb

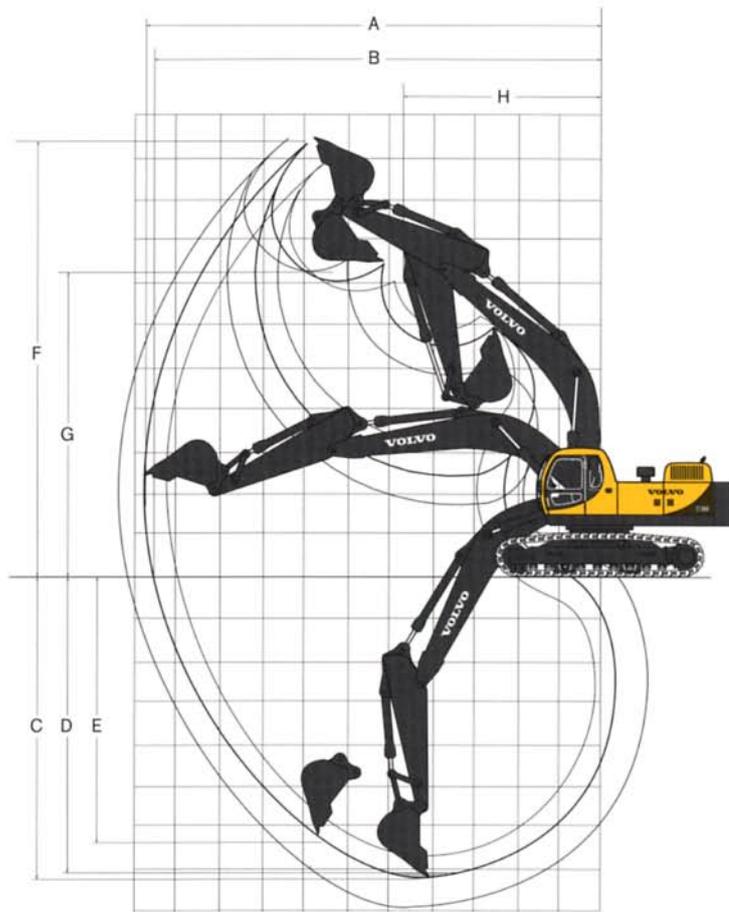
Boom	unit	6.0 m, 19' 8"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.1 m, 10' 2"	3.9 m, 12' 10"
GP bucket 1.5 t/m <sup>3</sup> , 2,530 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2975, 3.89	2700, 3.53	2475, 3.24	2175, 2.84
GP bucket 1.8 t/m <sup>3</sup> , 3,030 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2600, 3.40	2375, 3.11	2175, 2.84	1900, 2.49
RB bucket 1.8 t/m <sup>3</sup> , 3,030 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2400, 3.14	2175, 2.84	2000, 2.62	1750, 2.29
RB bucket 2.0 t/m <sup>3</sup> , 3,370 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2225, 2.91	2025, 2.65	1850, 2.42	1625, 2.13

### • Max. permitted sizes for hook on buckets:

Counterweight: 7000 kg, 15,440 lb

Boom	unit	6.0 m, 19' 8"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.1 m, 10' 2"	3.9 m, 12' 10"
GP bucket 1.5 t/m <sup>3</sup> , 2,530 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2850, 3.73	2575, 3.37	2350, 3.07	2050, 2.68
GP bucket 1.8 t/m <sup>3</sup> , 3,030 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2475, 3.24	2250, 2.94	2050, 2.68	1800, 2.35
RB bucket 1.8 t/m <sup>3</sup> , 3,030 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2300, 3.01	2075, 2.71	1900, 2.49	1650, 2.16
RB bucket 2.0 t/m <sup>3</sup> , 3,370 lb/yd <sup>3</sup>	l, yd <sup>3</sup>	2125, 2.78	1925, 2.52	1750, 2.29	1525, 1.99

## WORKING RANGES



• Pin on bucket

Boom	unit	6.0 m, 19' 8"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.1 m, 10' 2"	3.9 m, 12' 10"
A. Max. digging reach	mm, ft-in	10,270, 33' 8"	10,710, 35' 2"	11,200, 36' 9"	11,900, 39' 1"
B. Max. digging reach on ground	mm, ft-in	10,040, 32' 11"	10,490, 34' 5"	10,990, 36' 1"	11,710, 38' 5"
C. Max. digging depth	mm, ft-in	6,630, 21' 9"	7,030, 23' 1"	7,530, 24' 8"	8,330, 27' 4"
D. Max. digging depth (8' level)	mm, ft-in	6,450, 21' 2"	6,850, 22' 6"	7,370, 24' 2"	8,200, 26' 11"
E. Max. vertical wall digging depth	mm, ft-in	5,790, 19' 0"	6,090, 20' 0"	6,620, 21' 9"	7,150, 23' 5"
F. Max. cutting height	mm, ft-in	10,010, 32' 10"	10,260, 33' 8"	10,550, 34' 7"	10,730, 35' 2"
G. Max. dumping height	mm, ft-in	6,810, 22' 4"	7,080, 23' 3"	7,360, 24' 2"	7,590, 24' 11"
H. Min. front swing radius	mm, ft-in	4,300, 14' 1"	4,640, 15' 3"	4,690, 15' 5"	4,640, 15' 3"

• Digging forces with pin on bucket

Boom	unit	6.0 m, 19' 8"	Std. 6.45 m, 21' 2"		
Arm		2.6 m, 8' 6"	2.6 m, 8' 6"	Std. 3.1 m, 10' 2"	3.9 m, 12' 10"
Bucket tip radius	mm, in	1700, 67"	1700, 67"	1700, 67"	1700, 67"
Breakout force-bucket (Normal / Power boost)	SAE	kN lb 195.7 / 214.1 44,010 / 48,140			
Tearout force-arm (Normal / Power boost)	SAE	kN lb 176.9 / 193.5 39,780 / 43,500	kN lb 176.9 / 193.5 39,780 / 43,500	kN lb 150.5 / 164.6 33,850 / 37,020	kN lb 130.7 / 143.0 29,390 / 32,150
Rotation angle, bucket	°	182°	182°	182°	182°

## LIFTING CAPACITY (At the arm end without bucket)

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

### EC360 (Std. shoe 800 mm, 32", counterweight 7000 kg, 15,440 lb)

 Across under-carriage  Along under-carriage	Lifting hook related to ground level m / ft	4.5 m, 15'				6 m, 20'				7.5 m, 25'				9 m, 30'				Max.reach				
																						Max. m / ft
		t	lb	t	lb	t	lb	t	lb	t	lb											
Boom 6.0 m 19' 8" + Arm 2.6 m 8' 6"	7.5 25'					*10.1	*22,400	*10.1	*22,400									*8.7	*19,430	*8.7	*19,430	6.6 / 21.4
	6 20'					*10.4	*22,820	*10.4	*22,820									7.6	16,910	*8.2	*18,130	7.6 / 24.9
	4.5 15'	*14.5	*31,170	*14.5	*31,170	10.9	23,440	*11.9	*25,780	7.7	16,550	*10.8	*23,550					6.6	14,630	*8.1	*17,850	8.2 / 26.9
	3 10'	15.8	34,110	*18.7	*40,100	10.4	22,340	*13.8	*29,830	7.5	16,070	*11.6	25,100					6.1	13,530	*8.3	*18,260	8.5 / 28.0
	1.5 5'	15.0	32,290	*21.7	*46,790	9.9	21,380	*15.5	*33,560	7.2	15,600	11.4	24,570					6.0	13,220	*8.8	*19,390	8.5 / 28.1
	0 0'	14.7	31,600	*22.7	*49,270	9.7	20,810	15.8	34,060	7.1	15,300	11.3	24,230					6.2	13,650	9.7	21,430	8.3 / 27.2
	-1.5 -5'	14.7	31,580	*22.4	*48,480	9.6	20,670	15.8	33,890	7.1	15,310	11.2	24,250					6.8	15,040	10.8	23,760	7.7 / 25.4
-3 -10'	14.9	32,060	*20.6	*44,460	9.7	21,000	*15.4	*33,040									8.2	18,280	*12.6	*28,290	6.8 / 22.3	
-4.5 -15'	15.4	33,290	*16.1	*34,200													12.1	27,420	*12.9	*28,360	5.3 / 17.1	
Boom 6.45 m 21' 2" + Arm 2.6 m 8' 6"	7.5 25'																	8.4	18,920	*9.0	*19,950	7.2 / 23.3
	6 20'					*10.0	*21,830	*10.0	*21,830	7.8	16,790	*9.6	*21,100					6.8	15,160	*8.6	*18,900	8.1 / 26.5
	4.5 15'	*14.9	*31,890	*14.9	*31,890	10.7	23,050	*11.7	*25,230	7.6	16,380	*10.3	*22,370					6.0	13,270	*8.5	*18,730	8.7 / 28.5
	3 10'					10.1	21,830	*13.6	*29,460	7.3	15,800	*11.2	*24,440					5.6	12,340	8.7	19,250	9.0 / 29.4
	1.5 5'					9.7	20,850	*15.3	*33,140	7.1	15,270	11.3	24,220					5.5	12,060	8.6	18,920	9.0 / 29.5
	0 0'	14.3	30,830	*17.9	*42,200	9.4	20,290	15.6	33,480	6.9	14,930	11.1	23,840					5.6	12,390	8.9	19,530	8.8 / 28.7
	-1.5 -5'	14.4	30,900	*22.0	*47,720	9.4	20,160	15.5	33,330	6.9	14,870	11.0	23,770					6.1	13,510	9.7	21,390	8.2 / 27.0
-3 -10'	14.6	31,370	*20.5	*44,350	9.5	20,430	*15.5	*33,560									7.2	16,010	11.5	25,540	7.4 / 24.1	
-4.5 -15'	15.0	32,400	*17.2	*36,890													9.9	22,230	*12.3	*27,080	6.0 / 19.5	
Boom 6.45 m 21' 2" + Arm 3.1 m 10' 2"	7.5 25'									8.0	*14,730	*8.1	*14,730					*5.8	*12,800	*5.8	*12,800	7.8 / 25.3
	6 20'									7.9	16,990	*8.8	*19,370					*5.5	*12,140	*5.5	*12,140	8.7 / 28.3
	4.5 15'					*10.8	23,340	*10.8	*23,380	7.7	16,500	*9.6	*20,960	5.7	12,210	*7.6	*12,860	*5.5	*12,020	*5.5	*12,020	9.2 / 30.1
	3 10'	15.6	33,670	*17.7	*37,960	10.2	22,060	*12.9	*27,800	7.4	15,870	*10.7	*23,250	5.6	11,980	8.7	18,700	5.1	11,340	*5.6	*12,280	9.5 / 31.0
	1.5 5'	14.7	31,600	*18.8	*45,100	9.7	20,950	*14.7	*31,870	7.1	15,270	11.3	24,230	5.4	11,700	8.5	18,390	5.0	11,080	*5.9	*12,960	9.5 / 31.1
	0 0'	14.3	30,760	*19.6	*45,860	9.4	20,250	15.6	33,460	6.9	14,840	11.0	23,760	5.3	11,520	8.4	18,200	5.1	11,340	*6.4	*14,190	9.3 / 30.4
	-1.5 -5'	14.2	30,630	*22.2	*48,210	9.3	19,990	15.4	33,150	6.8	14,670	10.9	23,570					5.5	12,230	*7.4	*16,330	8.8 / 28.7
-3 -10'	14.4	30,960	*21.1	*45,810	9.3	20,120	15.5	33,310	6.9	14,850	11.0	23,770					6.4	14,160	*9.1	*20,190	8.0 / 26.0	
-4.5 -15'	14.8	31,780	*18.6	*39,970	9.6	20,760	*13.9	*29,550									8.3	18,540	*11.7	*25,740	6.7 / 21.8	
Boom 6.45 m 21' 2" + Arm 3.9 m 12' 10"	7.5 25'																	*4.6	*10,160	*4.6	*10,160	8.6 / 28.1
	6 20'									*7.6	*16,680	*7.6	*16,680	*5.8	12,510	*6.7	*13,060	*4.4	*9,760	*4.4	*9,760	9.4 / 30.8
	4.5 15'									7.7	16,660	*8.5	*18,530	5.7	12,300	*8.1	*17,870	*4.4	*9,710	*4.4	*9,710	9.9 / 32.5
	3 10'	*15.1	*32,490	*15.1	*32,490	10.4	22,360	*11.4	*24,730	7.4	15,920	*9.7	*21,060	5.5	11,930	8.7	18,690	4.5	*9,960	*4.5	*9,960	10.2 / 33.3
	1.5 5'	14.9	32,020	*19.0	*40,930	9.8	21,030	*13.5	*29,310	7.0	15,190	*10.9	*23,700	5.4	11,540	8.5	18,260	4.4	9,730	*4.8	*10,510	10.2 / 33.4
	0 0'	14.2	30,540	*21.3	*45,980	9.3	20,070	*15.1	*32,800	6.8	14,610	10.9	23,550	5.2	11,220	8.3	17,920	4.5	9,880	*5.2	*11,450	10.0 / 32.7
	-1.5 -5'	14.0	30,010	*22.1	*47,770	9.1	19,580	15.2	32,750	6.6	14,280	10.8	23,190	5.1	11,080	8.2	17,760	4.8	10,520	*5.9	*13,030	9.5 / 31.2
-3 -10'	14.0	30,080	*21.7	*46,940	9.1	19,500	15.2	32,660	6.6	14,250	10.8	23,160					5.4	11,870	*7.1	*15,750	8.8 / 28.7	
-4.5 -15'	14.2	30,660	*20.0	*43,200	9.2	19,860	*15.0	*32,210	6.8	14,700	10.9	*21,760					6.6	14,680	*9.5	*21,290	7.7 / 25.0	
-6 -20'	14.8	31,930	*16.2	*34,420													9.6	21,950	*11.3	*24,920	6.0 / 19.4	

- Notes :
1. Machine in "Fine Mode-F" (Power Boost), for lift capacities.
  2. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift 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.

## STANDARD EQUIPMENT

### Engine

Low-emission engine with air heater, complying with EPA (Environment Protection Association, USA) emission standards  
2-stage air filter with indicator  
Pre-cleaner  
Electric engine shut-off  
Fuel filter and water separator  
Alternator, 50 AMP

### Electronic control system

Advanced control system (ACS)  
Integrated mode selection system  
Self-diagnostic system  
Machine status indication  
Engine speed sensing power control  
"Power Max" mode system  
Automatic idling system  
One-touch power boost  
Automatic engine warm-up  
Safety stop/start function  
Adjustable monitor  
Master disconnect switch

Engine restart prevention circuit  
Powerful halogen lights:  
- Frame mounted 2  
- Boom mounted 4  
Batteries, 2 x 12V/200Ah  
Start motor, 24V/7.8kW  
Travel alarm

### Hydraulic system

Automatic sensing work mode  
- Summation system  
- Boom priority  
- Arm priority  
- Swing priority  
Boom and arm flow regeneration  
Boom and arm holding valves  
Pilot-operated, wrist control joysticks, with 3 switches ea.  
Multi-stage filtering system  
Cylinder cushions  
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  
- 7000 kg, **15,440 lbs**  
Tool storage area  
Punched metal anti-slip plates

### Cab and interior

Air-conditioner  
Heater  
Hydraulic dampening cab mounts  
Adjustable operator seat and control consoles  
Flexible antenna  
Hydraulic safety lock lever  
Cab, all-weather sound suppressed, includes:  
- Ashtray  
- Cigar lighter  
- Clear tinted roof hatch  
- Door locks  
- Fabric seat with heater  
- Floor mat  
- Horn  
- Large storage area

- Pull-up type front window  
- Removable lower windshield  
- Seat belt  
- Safety glass  
- Sliding rear window  
- Sun shield, front  
- Windshield wiper with intermittent feature  
Master ignition key  
Stereo cassette radio (AM/FM)  
Vandal guard preparation

### Undercarriage

Hydraulic track adjusters  
Greased and sealed track chain  
Track guides

### Track shoes

Std. track shoes 800 mm, **32"**  
with triple grousers

### Attachment

Std. boom: 6.45 m, **21' 2"**  
Std. arm: 3.1 m, **10' 2"**

## OPTIONAL EQUIPMENT

### Engine

Alternator, 70 AMP  
Block and oil pan heater, 120V  
Fuel warmer  
Tropical kit  
Fuel filler pump: 50 lpm  
(13.2 gpm), with automatic shut-off

### Electronic control system

Pump flow control for hammer & shear  
Extra work lights-(4):  
- Cab mounted-3, (front 2, rear 1)  
- Counterweight mounted-1  
Rotating warning beacon

### Superstructure

Undercover (heavy duty), 4.5 mm, (.18")

### Hydraulic system

Hydraulic piping  
- Hammer & shear:  
1 pump flow / 2 pump flow  
Extra piping for slope & rotator  
Additional return filter  
- Slope & rotator  
- Grapple  
- Oil leak line  
Volvo quick coupler piping  
Volvo hydraulic quick coupler-S3 size  
Hydraulic oil, ISO VG 32  
Hydraulic oil, ISO VG 68

### Cab and interior

Fabric seat  
Fabric seat, with heater and air suspension  
Control joystick, with 5 switches ea.  
Falling object guard (FOG)  
Cab mounted falling object protective structures (FOPS)  
Rain shield, front  
Safety screen for front window  
Vandalism kit

### Undercarriage

Full track guides  
Undercover (heavy duty), 10 mm, (.39")

### Track shoes

600 mm / 700 mm / 900 mm  
**24" / 28" / 36"**  
track shoes with triple grousers  
600 mm, **24"** track shoes with double grousers

### Attachment

Boom: 6.0 m, **19' 8"** heavy duty  
Arms: 2.6 m / 3.9 m  
**8' 6" / 12' 10"**

### Service

Tool kit

\*Specifications may vary by the region without notice.

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\*Materials and specifications are subject to change without notice.

*Under our policy of continuous improvement, we reserve the right to change specifications and design 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, N.C. 28803-3447  
Tel: 828-650-2070, Fax: 828-650-2508

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