

VOLVO EXCAVATOR

EC460B LC



- **Engine power, gross:**
239 kW 321 hp
- **Operating weight:**
44.3 ~ 48.6 t
97,570 ~ 107,120 lb
- **Buckets (SAE):**
1,725 ~ 3,775 l
2.26 ~ 4.94 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	D12C EAE2	
Power output at	32 r/s	1,900 rpm
Net (ISO 9249/ SAE J1349)	228 kW	306 hp
Gross (SAE J1995)	239 kW	321 hp
Max. torque	1,549 N·m at 1,400 rpm	1,143 lb-ft at 1,400 rpm
No. of cylinders	6	
Displacement	12.1 l	738 cu.in
Bore	131 mm	5.16"
Stroke	150 mm	5.91"



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	685 l	181 gal
Hydraulic system, total	525 l	139 gal
Hydraulic tank	270 l	71 gal
Engine oil	39 l	10 gal
Engine coolant	65.4 l	17 gal
Swing reduction unit	2 x 6.0 l	2 x 1.6 gal
Travel reduction unit	2 x 5.5 l	2 x 1.5 gal



SWING SYSTEM

The swing system uses 2 axial piston motors, driving 2 planetary gearboxes for maximum torque. An automatic holding brake and anti-rebound valves are standard.

Max. swing speed 8.5 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)	324.6 kN
	72,990 lb
Max. travel speed	2.9/4.8 km/h
	1.8/3.0 mph
Gradeability	35° 70%



UNDERCARRIAGE

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

Fixed undercarriage (Std.):

No. of track pads	2 x 52
Link pitch	215.9 mm 8.5"
Shoe width, triple grouser	600/700/800/900(Std.) mm
	24"/28"/32"/36"(Std.)
Shoe width, double grouser	600 mm 24"
No. of bottom track rollers	2 x 9
No. of top rollers	2 x 2

Retractable undercarriage (Opt.):

No. of track pads	2 x 52
Link pitch	215.9 mm 8.5"
Shoe width, triple grouser	600/700/800/900(Std.) mm
	24"/28"/32"/36"(Std.)
Shoe width, double grouser	600 mm 24"
No. of bottom track rollers	2 x 9
No. of top rollers	2 x 3



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 345 l/min **2 x 91 gpm**

Pilot pump:

Type Gear pump
Maximum flow 1 x 28 l/min **7.4 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 31.4 Mpa **4,550 psi**
Swing circuit 24.5 Mpa **3,560 psi**
Pilot circuit 3.9 Mpa **570 psi**

Hydraulic cylinders:

Boom 2
Bore x Stroke .. $\varnothing 165 \times 1,590$ mm
 $\varnothing 6.5'' \times 62.6''$
Arm 1
Bore x Stroke .. $\varnothing 190 \times 1,850$ mm
 $\varnothing 7.5'' \times 72.8''$
Bucket 1
Bore x Stroke .. $\varnothing 165 \times 1,335$ mm
 $\varnothing 6.5'' \times 52.6''$
ME bucket 1
Bore x Stroke .. $\varnothing 175 \times 1,335$ mm
 $\varnothing 6.9'' \times 52.6''$



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 109 dB(A)



GROUND PRESSURE

- **Machine with fixed undercarriage**

Std. 7.0 m, 23' 0" boom, 3.35 m, 11' 0" arm, 1,730 kg, **3,810 lb** bucket and 8,700 kg, **19,180 lb** counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	44,500 kg 98,120 lb	77.5 kPa 11.2 psi	3,340 mm 10' 11"
	700 mm 28"	45,000 kg 99,230 lb	66.7 kPa 9.7 psi	3,440 mm 11' 3"
	800 mm 32"	45,500 kg 100,330 lb	59.8 kPa 8.5 psi	3,540 mm 11' 7"
	900 mm 36"	46,020 kg 101,470 lb	53.9 kPa 7.7 psi	3,640 mm 11' 11"
Double grouser	600 mm 24"	44,250 kg 97,570 lb	77.5 kPa 11.1 psi	3,340 mm 10' 11"

- **Machine with retractable undercarriage**

Std. 7.0 m, 23' 0" boom, 3.35 m, 11' 0" arm, 1,730 kg, **3,810 lb** bucket and 8,700 kg, **19,180 lb** counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	45,700 kg 100,770 lb	79.4 kPa 11.5 psi	3,490 mm 11' 5"
	700 mm 28"	46,220 kg 101,920 lb	68.6 kPa 10.0 psi	3,590 mm 11' 9"
	800 mm 32"	46,740 kg 103,060 lb	60.8 kPa 8.8 psi	3,690 mm 12' 1"
	900 mm 36"	47,280 kg 104,250 lb	54.9 kPa 8.0 psi	3,790 mm 12' 5"
Double grouser	600 mm 24"	45,450 kg 100,220 lb	79.4 kPa 11.4 psi	3,490 mm 11' 5"

- **Machine with fixed undercarriage**

Std. 7.0 m, 23' 0" boom, 3.35 m, 11' 0" arm, 1,730 kg, **3,810 lb** bucket and 9,300 kg, **20,510 lb** counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	45,100 kg 99,450 lb	78.4 kPa 11.4 psi	3,340 mm 10' 11"
	700 mm 28"	45,600 kg 100,550 lb	67.7 kPa 9.8 psi	3,440 mm 11' 3"
	800 mm 32"	46,100 kg 101,650 lb	59.8 kPa 8.7 psi	3,540 mm 11' 7"
	900 mm 36"	46,620 kg 102,800 lb	53.9 kPa 7.8 psi	3,640 mm 11' 11"
Double grouser	600 mm 24"	44,850 kg 98,890 lb	78.4 kPa 11.4 psi	3,340 mm 10' 11"

- **Machine with retractable undercarriage**

Std. 7.0 m, 23' 0" boom, 3.35 m, 11' 0" arm, 1,730 kg, **3,810 lb** bucket and 9,300 kg, **20,510 lb** counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	46,300 kg 102,090 lb	80.4 kPa 11.7 psi	3,490 mm 11' 5"
	700 mm 28"	46,820 kg 103,240 lb	69.6 kPa 10.1 psi	3,590 mm 11' 9"
	800 mm 32"	47,340 kg 104,380 lb	61.8 kPa 9.0 psi	3,690 mm 12' 1"
	900 mm 36"	47,880 kg 105,580 lb	55.9 kPa 8.1 psi	3,790 mm 12' 5"
Double grouser	600 mm 24"	46,050 kg 101,540 lb	80.4 kPa 11.7 psi	3,490 mm 11' 5"



GROUND PRESSURE

- **Machine with fixed undercarriage**

Std. 7.0 m, **23' 0"** boom, 3.35 m, **11' 0"** arm, 1,730 kg, **3,810 lb** bucket and 10,000 kg, **22,050 lb** counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	45,800 kg 100,990 lb	79.2 kPa 11.5 psi	3,340 mm 10' 11"
	700 mm 28"	46,300 kg 102,090 lb	68.6 kPa 10.0 psi	3,440 mm 11' 3"
	800 mm 32"	46,800 kg 103,190 lb	60.7 kPa 8.8 psi	3,540 mm 11' 7"
	900 mm 36"	47,320 kg 104,340 lb	54.5 kPa 7.9 psi	3,640 mm 11' 11"
Double grouser	600 mm 24"	45,550 kg 100,440 lb	78.7 kPa 11.4 psi	3,340 mm 10' 11"

- **Machine with retractable undercarriage**

Std. 7.0 m, **23' 0"** boom, 3.35 m, **11' 0"** arm, 1,730 kg, **3,810 lb** bucket and 10,000 kg, **22,050 lb** counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm 24"	47,000 kg 103,640 lb	81.2 kPa 11.8 psi	3,490 mm 11' 5"
	700 mm 28"	47,520 kg 104,780 lb	71.2 kPa 10.3 psi	3,590 mm 11' 9"
	800 mm 32"	48,040 kg 105,930 lb	63.0 kPa 9.1 psi	3,690 mm 12' 1"
	900 mm 36"	48,580 kg 107,120 lb	56.6 kPa 8.2 psi	3,790 mm 12' 5"
Double grouser	600 mm 24"	46,750 kg 103,080 lb	81.7 kPa 11.8 psi	3,490 mm 11' 5"

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:

Fixed undercarriage, counterweight 8,700 kg, **19,180 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,575, 4.68	3,300, 4.32	3,000, 3.92	2,750, 3.60	2,425, 3.17
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,125, 4.09	2,875, 3.76	2,625, 3.43	2,400, 3.14	2,125, 2.78
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	2,900, 3.79	2,650, 3.47	2,425, 3.17	2,200, 2.88	1,950, 2.55
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,675, 3.50	2,475, 3.24	2,250, 2.94	2,050, 2.68	1,825, 2.39

- Max. permitted sizes for hook-on buckets:

Fixed undercarriage, counterweight 8,700 kg, **19,180 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,450, 4.51	3,150, 4.12	2,850, 3.73	2,600, 3.40	2,300, 3.01
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,025, 3.96	2,775, 3.63	2,500, 3.27	2,275, 2.98	2,000, 2.62
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	2,775, 3.63	2,550, 3.34	2,300, 3.01	2,100, 2.75	1,850, 2.42
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,575, 3.37	2,350, 3.07	2,150, 2.81	1,950, 2.55	1,725, 2.26

- Max. permitted sizes for pin-on buckets:

Retractable undercarriage, counterweight 8,700 kg, **19,180 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,625, 4.74	3,350, 4.38	3,050, 3.99	2,775, 3.63	2,475, 3.24
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,175, 4.15	2,925, 3.83	2,650, 3.47	2,425, 3.17	2,150, 2.81
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	2,925, 3.83	2,700, 3.53	2,450, 3.20	2,250, 2.94	2,000, 2.62
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,725, 3.56	2,500, 3.27	2,275, 2.98	2,075, 2.71	1,850, 2.42

- Max. permitted sizes for hook-on buckets:

Retractable undercarriage, counterweight 8,700 kg, **19,180 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,500, 4.58	3,200, 4.19	2,900, 3.79	2,650, 3.47	2,325, 3.04
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,050, 3.99	2,800, 3.66	2,550, 3.34	2,325, 3.04	2,050, 2.68
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	2,825, 3.70	2,600, 3.40	2,350, 3.07	2,150, 2.81	1,875, 2.45
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,625, 3.43	2,400, 3.14	2,175, 2.84	1,975, 2.58	1,750, 2.29

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:

Fixed undercarriage, counterweight 9,300 kg, **20,510 lb/10,000 kg, 22,050 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,725, 4.87	3,425, 4.48	3,125, 4.09	2,850, 3.73	2,525, 3.30
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,275, 4.28	3,000, 3.92	2,725, 3.56	2,500, 3.27	2,225, 2.91
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,000, 3.92	2,775, 3.63	2,525, 3.30	2,300, 3.01	2,050, 2.68
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,800, 3.66	2,575, 3.37	2,325, 3.04	2,150, 2.81	1,900, 2.49

● Max. permitted sizes for hook-on buckets:

Fixed undercarriage, counterweight 9,300 kg, **20,510 lb/10,000 kg, 22,050 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,600, 4.71	3,300, 4.32	2,975, 3.89	2,725, 3.56	2,400, 3.14
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,150, 4.12	2,875, 3.76	2,600, 3.40	2,375, 3.11	2,100, 2.75
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	2,900, 3.79	2,650, 3.47	2,400, 3.14	2,200, 2.88	1,950, 2.55
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,700, 3.53	2,475, 3.24	2,225, 2.91	2,050, 2.68	1,800, 2.35

● Max. permitted sizes for pin-on buckets:

Retractable undercarriage, counterweight 9,300 kg, **20,510 lb/10,000 kg, 22,050 lb**

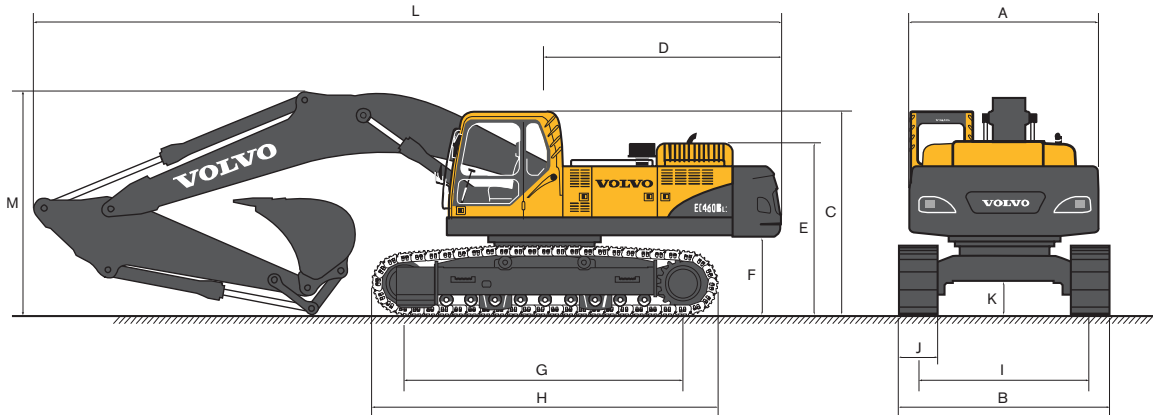
Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,775, 4.94	3,475, 4.55	3,175, 4.15	2,900, 3.79	2,575, 3.37
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,300, 4.32	3,050, 3.99	2,775, 3.63	2,550, 3.34	2,250, 2.94
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,050, 3.99	2,800, 3.66	2,550, 3.34	2,350, 3.07	2,075, 2.71
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,825, 3.70	2,600, 3.40	2,375, 3.11	2,175, 2.84	1,925, 2.52

● Max. permitted sizes for hook-on buckets:

Retractable undercarriage, counterweight 9,300 kg, **20,510 lb/10,000 kg, 22,050 lb**

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
GP bucket 1.5 t/m ³ , 2,530 lb/yd³	l, yd ³	3,650, 4.77	3,350, 4.38	3,025, 3.96	2,775, 3.63	2,450, 3.20
GP bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	3,200, 4.19	2,925, 3.83	2,650, 3.47	2,425, 3.17	2,150, 2.81
RB bucket 1.8 t/m ³ , 3,030 lb/yd³	l, yd ³	2,950, 3.86	2,700, 3.53	2,450, 3.20	2,250, 2.94	1,975, 2.58
RB bucket 2.0 t/m ³ , 3,370 lb/yd³	l, yd ³	2,725, 3.56	2,500, 3.27	2,275, 2.98	2,075, 2.71	1,825, 2.39

DIMENSIONS



• Std. fixed undercarriage

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
A. Overall width of superstructure	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
B. Overall width	mm, ft-in	3,640, 11' 11"	3,640, 11' 11"	3,640, 11' 11"	3,640, 11' 11"	3,640, 11' 11"
C. Overall height of cab	mm, ft-in	3,250, 10' 8"	3,250, 10' 8"	3,250, 10' 8"	3,250, 10' 8"	3,250, 10' 8"
D. Tail swing radius	mm, ft-in	3,730, 12' 3"	3,730, 12' 3"	3,730, 12' 3"	3,730, 12' 3"	3,730, 12' 3"
E. Overall height of engine hood	mm, ft-in	2,750, 9' 0"	2,750, 9' 0"	2,750, 9' 0"	2,750, 9' 0"	2,750, 9' 0"
F. Counterweight clearance *	mm, ft-in	1,275, 4' 2"	1,275, 4' 2"	1,275, 4' 2"	1,275, 4' 2"	1,275, 4' 2"
G. Tumbler length	mm, ft-in	4,370, 14' 4"	4,370, 14' 4"	4,370, 14' 4"	4,370, 14' 4"	4,370, 14' 4"
H. Track length	mm, ft-in	5,370, 17' 7"	5,370, 17' 7"	5,370, 17' 7"	5,370, 17' 7"	5,370, 17' 7"
I. Track gauge	mm, ft-in	2,740, 9' 0"	2,740, 9' 0"	2,740, 9' 0"	2,740, 9' 0"	2,740, 9' 0"
J. Shoe width	mm, in	900, 36"	900, 36"	900, 36"	900, 36"	900, 36"
K. Min. ground clearance *	mm, ft-in	550, 1' 10"	550, 1' 10"	550, 1' 10"	550, 1' 10"	550, 1' 10"
L. Overall length	mm, ft-in	11,560, 37' 11"	12,060, 39' 7"	12,070, 39' 7"	12,070, 39' 7"	11,940, 39' 2"
M. Overall height of boom	mm, ft-in	3,770, 12' 4"	3,630, 11' 11"	3,650, 12' 0"	3,690, 12' 1"	4,650, 15' 3"

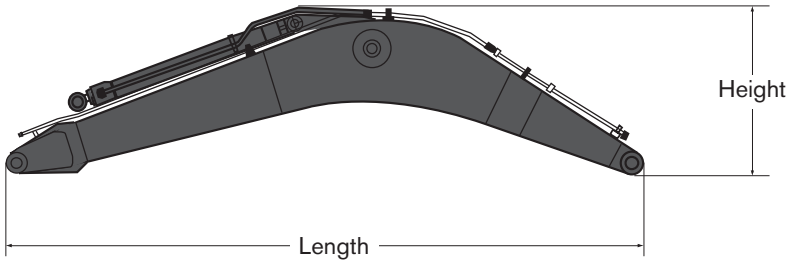
• Retractable undercarriage

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
A. Overall width of superstructure	mm, ft-in	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"	2,990, 9' 10"
B. Overall width (extended)	mm, ft-in	3,790, 12' 5"	3,790, 12' 5"	3,790, 12' 5"	3,790, 12' 5"	3,790, 12' 5"
Overall width (retracted)	mm, ft-in	3,290, 10' 10"	3,290, 10' 10"	3,290, 10' 10"	3,290, 10' 10"	3,290, 10' 10"
C. Overall height of cab	mm, ft-in	3,360, 11' 0"	3,360, 11' 0"	3,360, 11' 0"	3,360, 11' 0"	3,360, 11' 0"
D. Tail swing radius	mm, ft-in	3,730, 12' 3"	3,730, 12' 3"	3,730, 12' 3"	3,730, 12' 3"	3,730, 12' 3"
E. Overall height of engine hood	mm, ft-in	2,860, 9' 5"	2,860, 9' 5"	2,860, 9' 5"	2,860, 9' 5"	2,860, 9' 5"
F. Counterweight clearance *	mm, ft-in	1,385, 4' 7"	1,385, 4' 7"	1,385, 4' 7"	1,385, 4' 7"	1,385, 4' 7"
G. Tumbler length	mm, ft-in	4,370, 14' 4"	4,370, 14' 4"	4,370, 14' 4"	4,370, 14' 4"	4,370, 14' 4"
H. Track length	mm, ft-in	5,370, 17' 7"	5,370, 17' 7"	5,370, 17' 7"	5,370, 17' 7"	5,370, 17' 7"
I. Track gauge (extended)	mm, ft-in	2,890, 9' 6"	2,890, 9' 6"	2,890, 9' 6"	2,890, 9' 6"	2,890, 9' 6"
Track gauge (retracted)	mm, ft-in	2,390, 7' 10"	2,390, 7' 10"	2,390, 7' 10"	2,390, 7' 10"	2,390, 7' 10"
J. Shoe width	mm, in	900, 36"	900, 36"	900, 36"	900, 36"	900, 36"
K. Min. ground clearance *	mm, ft-in	746, 2' 5"	746, 2' 5"	746, 2' 5"	746, 2' 5"	746, 2' 5"
L. Overall length	mm, ft-in	11,540, 37' 10"	12,060, 39' 7"	12,070, 39' 7"	12,070, 39' 7"	11,940, 39' 2"
M. Overall height of boom	mm, ft-in	3,800, 12' 6"	3,770, 12' 4"	3,790, 12' 5"	3,830, 12' 7"	4,790, 15' 9"

* Without shoe grouser

DIMENSIONS

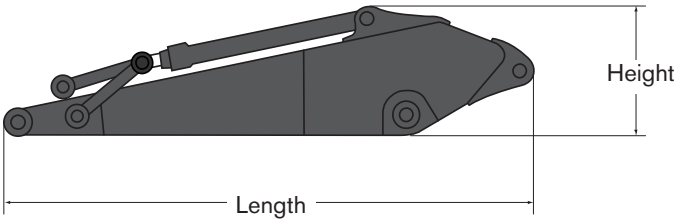
• Boom



Description	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"
Length	6,750 mm, 22' 2"	7,250 mm, 23' 9"
Height	2,000 mm, 6' 7"	1,840 mm, 6' 0"
Width	960 mm, 3' 2"	960 mm, 3' 2"
Weight	3,900 kg, 8,600 lb	3,880 kg, 8,560 lb

* Includes cylinder, pin and piping

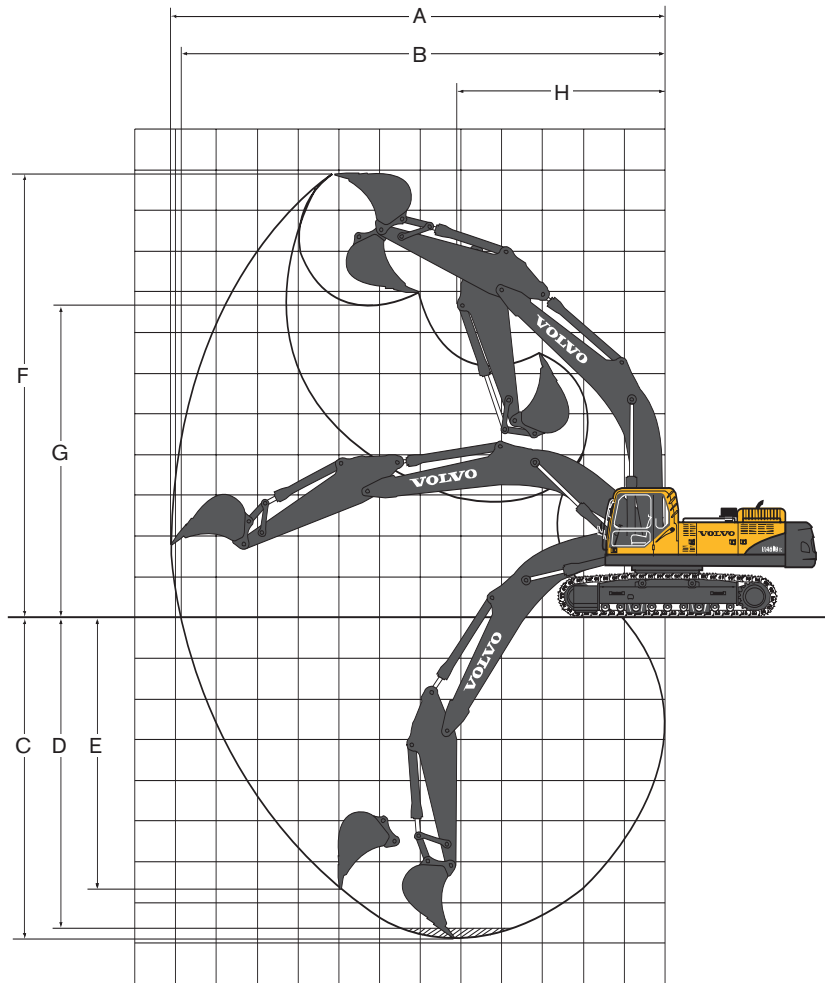
• Arm



Description	2.55 m, 8' 4"	3.35 m, 11' 0"		3.9 m, 12' 10"	4.8 m, 15' 9"
		Standard	Heavy-duty		
Length	3,770 mm, 12' 4"	4,590 mm, 15' 1"	4,590 mm, 15' 1"	5,140 mm, 16' 10"	6,100 mm, 20' 0"
Height	1,235 mm, 4' 1"	1,230 mm, 4' 0"	1,235 mm, 4' 1"	1,240 mm, 4' 1"	1,250 mm, 4' 1"
Width	600 mm, 2' 0"	600 mm, 2' 0"	600 mm, 2' 0"	600 mm, 2' 0"	600 mm, 2' 0"
Weight	2,200 kg, 4,850 lb	2,245 kg, 4,950 lb	2,400 kg, 5,290 lb	2,455 kg, 5,410 lb	2,615 kg, 5,770 lb

* Includes cylinder, piping and linkage

WORKING RANGES & DIGGING FORCES



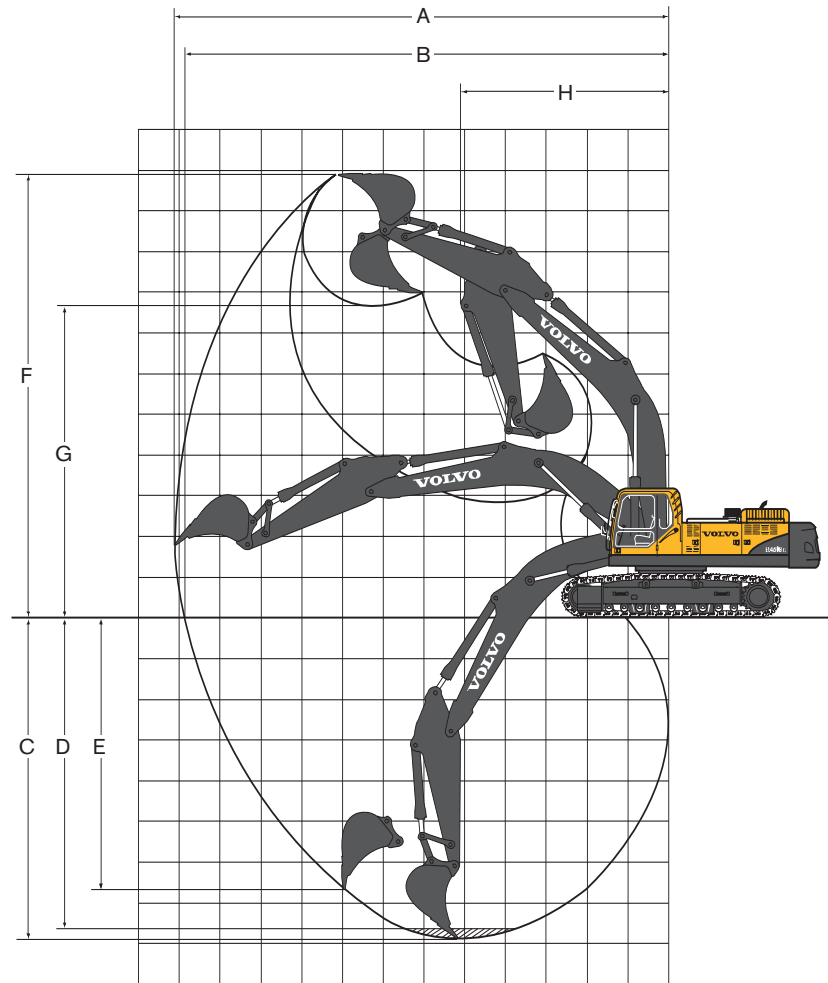
• Machine with std. fixed undercarriage, pin-on bucket

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
A. Max. digging reach	mm, ft-in	10,900, 35' 9"	11,310, 37' 1"	12,000, 39' 4"	12,500, 41' 0"	13,220, 43' 4"
B. Max. digging reach on ground	mm, ft-in	10,660, 35' 0"	11,070, 36' 4"	11,780, 38' 8"	12,290, 40' 4"	13,020, 42' 9"
C. Max. digging depth	mm, ft-in	6,570, 21' 7"	6,900, 22' 8"	7,700, 25' 3"	8,250, 27' 1"	9,150, 30' 0"
D. Max. digging depth (8' level)	mm, ft-in	6,400, 21' 0"	6,720, 22' 1"	7,550, 24' 9"	8,120, 26' 8"	9,030, 29' 8"
E. Max. vertical wall digging depth	mm, ft-in	5,800, 19' 0"	6,150, 20' 2"	6,840, 22' 5"	7,300, 23' 11"	7,730, 25' 4"
F. Max. cutting height	mm, ft-in	10,580, 34' 9"	10,820, 35' 6"	10,970, 36' 0"	11,150, 36' 7"	11,090, 36' 5"
G. Max. dumping height	mm, ft-in	6,980, 22' 11"	7,440, 24' 5"	7,650, 25' 1"	7,840, 25' 9"	7,870, 25' 10"
H. Min. front swing radius	mm, ft-in	4,770, 15' 8"	5,170, 17' 0"	5,090, 16' 8"	4,990, 16' 4"	5,040, 16' 6"

• Digging forces with pin-on bucket

Boom	Unit	ME 6.5 m, 21' 4"	Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
Bucket tip radius	mm, in	1,923, 76"	1,810, 71"	1,810, 71"	1,810, 71"	1,810, 71"
Breakout force – bucket (Normal/Power boost)	SAE kN lb	245.2/267.7 55,130/60,200	222.6/244.2 50,050/54,900	222.6/244.2 50,050/54,900	222.6/244.2 50,050/54,900	222.6/244.2 50,050/54,900
Teaout force – arm (Normal/Power boost)	SAE kN lb	217.7/237.3 48,950/53,360	224.6/245.2 50,490/55,130	190.2/208.9 42,780/46,970	170.6/186.3 38,370/41,900	154.9/169.6 34,840/38,150
Rotation angle, bucket	deg	169°	183°	183°	183°	183°

WORKING RANGES & DIGGING FORCES



• Machine with retractable undercarriage, pin-on bucket

Boom	Unit	ME 6.5 m, 21' 4"		Std. 7.0 m, 23' 0"		
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"
A. Max. digging reach	mm, ft-in	10,900, 35' 9"	11,310, 37' 1"	12,000, 39' 4"	12,500, 41' 0"	13,220, 43' 4"
B. Max. digging reach on ground	mm, ft-in	10,630, 34' 11"	11,050, 36' 3"	11,750, 38' 7"	12,260, 40' 3"	12,990, 42' 7"
C. Max. digging depth	mm, ft-in	6,440, 21' 2"	6,770, 22' 3"	7,570, 24' 10"	8,120, 26' 8"	9,020, 29' 7"
D. Max. digging depth (8' level)	mm, ft-in	6,270, 20' 7"	6,590, 21' 7"	7,420, 24' 4"	7,980, 26' 2"	8,900, 29' 2"
E. Max. vertical wall digging depth	mm, ft-in	5,670, 18' 7"	6,020, 19' 9"	6,710, 22' 0"	7,170, 23' 6"	7,600, 24' 11"
F. Max. cutting height	mm, ft-in	10,710, 35' 2"	10,950, 35' 11"	11,110, 36' 5"	11,280, 37' 0"	11,220, 36' 10"
G. Max. dumping height	mm, ft-in	7,110, 23' 4"	7,570, 24' 10"	7,780, 25' 6"	7,970, 26' 2"	8,000, 26' 3"
H. Min. front swing radius	mm, ft-in	4,770, 15' 8"	5,170, 17' 0"	5,090, 16' 8"	4,990, 16' 4"	5,040, 16' 6"










• Digging forces with pin-on bucket

Boom	Unit	ME 6.5 m, 21' 4"		Std. 7.0 m, 23' 0"			
Arm		2.55 m, 8' 4"	2.55 m, 8' 4"	Std. 3.35 m, 11' 0"	3.9 m, 12' 10"	4.8 m, 15' 9"	
Bucket tip radius	mm, in	1,923, 76"	1,810, 71"	1,810, 71"	1,810, 71"	1,810, 71"	
Breakout force – bucket (Normal/Power boost)	SAE	kN	245.2/267.7	222.6/244.2	222.6/244.2	222.6/244.2	
		lb	55,130/60,200	50,050/54,900	50,050/54,900	50,050/54,900	50,050/54,900
Teaout force – arm (Normal/Power boost)	SAE	kN	217.7/237.3	224.6/245.2	190.2/208.9	170.6/186.3	154.9/169.6
		lb	48,950/53,360	50,490/55,130	42,780/46,970	38,370/41,900	34,840/38,150
Rotation angle, bucket	deg	169°	183°	183°	183°	183°	

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.

EC460B LC (Std. shoe 900 mm, 36", counterweight 8,700 kg, 19,180 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	t	lb									
ME boom 6.5 m 21' 4" + Arm 2.55 m 8' 4"	7.5 25'														*11.5	*25,520	10.8	24,310	7.2 / 23.4					
	6.0 20'					*12.9	*27,950	*12.9	*27,950	*11.8	*25,990	10.2	21,840			*11.1	*24,410	8.9	19,730	8.1 / 26.5				
	4.5 15'	*19.2	*41,210	*19.2	*41,210	*14.7	*31,740	13.8	29,810	*12.6	*27,410	9.9	21,330			*11.1	*24,350	7.9	17,430	8.7 / 28.4				
	3.0 10'	*22.1	*50,880	19.9	42,890	*16.7	*36,140	13.2	28,440	*13.6	*29,510	9.6	20,670			*11.4	*25,180	7.4	16,320	8.9 / 29.3				
	1.5 5'	*15.7	*38,970	*15.7	*38,970	*18.3	*39,570	12.7	27,390	*14.5	*31,380	9.3	20,090			11.6	25,510	7.3	16,050	8.9 / 29.3				
	0 0'	*23.2	*54,580	19.0	40,930	*18.9	*41,010	12.5	26,840	14.9	31,980	9.1	19,740			12.0	26,480	7.5	16,580	8.7 / 28.4				
	-1.5 -5'	*24.4	*52,940	19.1	41,080	*18.5	*40,130	12.4	26,750	*14.5	*31,230	9.1	19,710			*12.9	*28,490	8.2	18,190	8.1 / 26.6				
	-3.0 -10'	*21.8	*47,210	19.4	41,650	*16.8	*36,130	12.6	27,120							*13.0	*28,730	9.8	21,740	7.2 / 23.6				
-4.5 -15'	*16.8	*35,850	*16.8	*35,850											*12.4	*28,180	*12.4	*28,180	5.8 / 18.4					
Std. boom 7.0 m 23' 0" + Arm 2.55 m 8' 4"	7.5 25'																							
	6.0 20'																							
	4.5 15'					*12.6	*27,370	*12.6	*27,370	*11.3	*24,700	10.2	21,940			*11.0	*24,200	8.0	17,780	8.7 / 28.4				
	3.0 10'					*14.7	*31,610	13.6	29,450	*12.3	*26,620	9.9	21,270	*11.1	*24,390	7.5	16,100	*11.1	*24,370	7.2	15,920	9.2 / 30.2		
	1.5 5'					*16.8	*36,160	13.0	27,970	*13.4	*28,960	9.5	20,520	*11.6	24,940	7.3	15,790	10.7	23,670	6.8	15,000	9.5 / 31.0		
	0 0'					*18.2	*39,440	12.5	26,940	*14.3	*30,950	9.2	19,900	11.4	24,610	7.2	15,490	10.6	23,410	6.7	14,770	9.5 / 31.0		
	-1.5 -5'	*23.9	*51,980	18.9	40,620	*18.5	*40,000	12.3	26,410	*14.6	*31,560	9.0	19,470			11.3	24,450	7.1	15,350	11.0	24,190	6.9	15,190	9.2 / 30.2
	-3.0 -10'	*21.8	*47,320	19.1	41,170	*17.1	*36,980	12.4	26,750	*13.3	*28,470	9.2	19,830			*12.3	*27,080	8.6	19,180	7.5	16,470	8.7 / 28.5		
-4.5 -15'	*18.1	*38,830	*18.1	*38,830	*13.9	*29,550	12.8	27,650							*12.0	*26,420	11.3	25,350	6.6	14,210	7.9 / 25.7			
Std. boom 7.0 m 23' 0" + Std. arm 3.35 m 11' 0"	7.5 25'									*9.7	*21,320	*9.7	*21,320					*8.9	*19,580	8.3	18,500	8.7 / 28.3		
	6.0 20'									*10.3	*22,460	*10.3	22,430	*9.9	*21,720	7.8	16,730	*8.7	*19,100	7.1	15,870	9.5 / 30.9		
	4.5 15'	*17.4	*37,210	*17.4	*37,210	*13.3	*28,780	*13.3	*28,780	*11.4	*24,690	10.1	21,690	*10.3	*22,250	7.6	16,420	*8.7	*19,210	6.5	14,400	9.9 / 32.5		
	3.0 10'	*22.1	*47,480	20.0	43,100	*15.6	*33,720	13.3	28,620	*12.6	*27,360	9.7	20,850	*11.0	*23,910	7.4	15,990	*9.0	*19,860	6.2	13,630	10.2 / 33.3		
	1.5 5'	*14.3	*34,560	*14.3	*34,560	*17.5	*37,830	12.7	27,340	*13.8	*29,820	9.3	20,110	11.5	24,720	7.2	15,580	*9.6	*21,120	6.1	13,400	10.2 / 33.3		
	0 0'	*17.6	*41,000	*17.6	40,300	*18.6	*40,180	12.3	26,590	*14.5	*31,480	9.1	19,600	11.3	24,400	7.1	15,290	9.9	21,720	6.2	13,690	9.9 / 32.5		
	-1.5 -5'	*25.0	*54,370	18.7	40,270	*18.7	*40,580	12.2	26,320	14.7	31,560	9.0	19,370	11.3	24,310	7.0	15,220	10.5	23,270	6.6	14,610	9.5 / 30.9		
	-3.0 -10'	*23.5	*50,970	18.9	40,640	*18.0	*38,890	12.3	26,440	*14.2	*30,540	9.0	19,470					*11.6	*25,570	7.5	16,530	8.7 / 28.4		
-4.5 -15'	*20.6	*44,530	19.3	41,450	*15.9	*34,240	12.5	26,990									*11.8	*25,980	9.2	20,500	7.6 / 24.5			
Std. boom 7.0 m 23' 0" + Arm 3.9 m 12' 1"	7.5 25'													*8.8	*16,930	7.9	16,930	*7.1	*15,790	*7.1	*15,790	9.3 / 30.2		
	6.0 20'									*9.5	*20,630	*9.5	*20,630	*9.1	*19,970	7.8	16,810	*7.0	*15,430	6.5	14,470	10.0 / 32.6		
	4.5 15'					*12.2	*26,350	*12.2	*26,350	*10.6	*22,960	10.1	21,770	*9.7	*21,080	7.6	16,410	*7.1	*15,540	6.0	13,200	10.4 / 34.2		
	3.0 10'	*20.2	*43,230	*20.2	*43,230	*14.6	*31,420	13.3	28,770	*11.9	*25,770	9.7	20,830	*10.4	*22,630	7.4	15,890	*7.3	*16,030	5.7	12,510	10.7 / 34.9		
	1.5 5'	*19.6	*46,670	19.0	40,990	*16.6	*35,950	12.6	27,250	*13.1	*28,470	9.3	19,960	*11.1	*24,200	7.1	15,400	*7.7	*16,980	5.6	12,280	10.7 / 34.9		
	0 0'	*19.4	*45,050	18.5	39,760	*18.0	*38,930	12.2	26,280	*14.1	*30,480	9.0	19,320	11.2	24,140	7.0	15,020	*8.4	*18,510	5.7	12,490	10.4 / 34.2		
	-1.5 -5'	*24.4	*54,430	18.3	39,450	*18.5	*40,040	12.0	25,830	14.5	31,170	8.8	18,980	11.1	23,930	6.9	14,830	*9.5	*20,960	6.0	13,230	10.0 / 32.7		
	-3.0 -10'	*24.0	*52,090	18.5	39,680	*18.1	*39,190	12.0	25,820	*14.2	*30,800	8.8	18,950	11.1	24,060	6.9	14,940	10.7	23,710	6.7	14,740	9.3 / 30.3		
-4.5 -15'	*21.7	*46,940	18.8	40,370	*16.6	*35,820	12.2	26,220	*12.9	*27,610	8.9	19,340					*11.2	*24,670	8.0	17,750	8.2 / 26.7			
Std. boom 7.0 m 23' 0" + Arm 4.8 m 15' 9"	7.5 25'													*7.6	*16,770	*7.6	*16,770	*6.6	*14,470	6.5	*14,470	10.1 / 32.9		
	6.0 20'														*7.9	*17,410	7.9	17,020	*6.5	*14,290	5.8	12,800	10.8 / 35.2	
	4.5 15'									*9.3	*20,120	*9.3	*20,120	*8.6	*18,780	7.7	16,510	*6.6	*14,470	5.3	11,730	11.2 / 36.6		
	3.0 10'	*17.0	*36,460	*17.0	*36,460	*12.8	*27,600	*12.8	*27,600	*10.7	*23,130	9.7	21,010	*9.4	*20,560	7.4	15,890	*6.8	*14,980	5.0	11,120	11.4 / 37.3		
	1.5 5'	*21.2	*45,780	19.4	41,730	*15.1	*32,720	12.7	27,490	*12.1	*26,180	9.3	19,960	*10.3	*22,410	7.1	15,270	*7.2	*15,860	4.9	10,870	11.4 / 37.3		
	0 0'	*23.6	*51,480	18.4	39,590	*16.9	*36,630	12.1	26,130	*13.2	*28,720	8.9	19,110	*11.1	23,900	6.8	14,740	*7.8	*17,270	5.0	10,990	11.2 / 36.6		
	-1.5 -5'	*24.8	*53,660	18.0	38,690	*17.9	*38,830	11.8	25,350	*14.0	*30,340	8.6	18,560	10.9	23,520	6.7	14,400	8.5	18,680	5.2	11,510	10.8 / 35.2		
	-3.0 -10'	*24.5	*53,090	17.9	38,560	*18.1	*39,190	11.6	25,080	14.2	30,520	8.5	18,340	10.9	23,410	6.6	14,300	9.3	20,480	5.7	12,600	10.1 / 33.0		
-4.5 -15'	*23.1	*49,880	18.1	38,980	*17.3	*37,450	11.7	25,260	*13.6	*29,300	8.6	18,470					*10.4	*23,050	6.6	14,660	9.1 / 29.8			

- Notes:
- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
 - The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
 - Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 - Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
 - Contains metric and U.S. measurement charts.

LIFTING CAPACITY (At the arm end without bucket)

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

EC460B LC (Std. shoe 900 mm, 36", counterweight 9,300 kg, 19,180 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							
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	Max. m / ft			
Std. boom 7.0 m 23' 0" + Arm 2.55 m 8' 4"	7.5 25'																
	6.0 20'																
	4.5 15'																
	3.0 10'																
	1.5 5'																
	0 0'																
	-1.5 -5'	*23.9	*51,980	19.6	42,170	*18.5	*40,000	12.7	27,450	*14.6	*31,560	9.4	20,250				
	-3.0 -10'	*21.8	*47,320	19.9	42,720	*17.1	*36,980	12.9	27,780	*13.3	*28,470	9.5	20,610				
	-4.5 -15'	*18.1	*38,830	*18.1	*38,830	*13.9	*29,550	13.3	28,690								
Std. boom 7.0 m 23' 0" + Std. arm 3.35 m 11' 0"	7.5 25'																
	6.0 20'																
	4.5 15'	*17.4	*37,210	*17.4	*37,210	*13.3	*28,780	*13.3	*28,780	*11.4	*24,690	10.4	22,470	*10.3	*22,550	7.9	17,050
	3.0 10'	*22.1	*47,480	20.7	44,640	*15.6	*33,720	13.7	29,660	*12.6	*27,360	10.0	21,630	*11.0	*23,910	7.7	16,620
	1.5 5'	*14.3	*34,560	*14.3	*34,560	*17.5	*37,830	13.2	28,380	*13.8	*29,820	9.7	20,890	*11.6	*25,260	7.5	16,210
	0 0'	*17.6	*41,000	*17.6	*41,000	*18.6	*40,180	12.8	27,630	*14.5	*31,480	9.4	20,380	11.7	25,190	7.4	15,920
	-1.5 -5'	*25.0	*54,370	19.4	41,820	*18.7	*40,580	12.7	27,360	*14.7	*31,910	9.3	20,150	11.6	25,100	7.3	15,840
	-3.0 -10'	*23.5	*50,970	19.6	42,190	*18.0	*38,890	12.7	27,480	*14.2	*30,540	9.4	20,250				
	-4.5 -15'	*20.6	*44,530	20.0	42,990	*15.9	*34,240	13.0	28,020								
Std. boom 7.0 m 23' 0" + Arm 3.9 m 12' 1"	7.5 25'																
	6.0 20'																
	4.5 15'																
	3.0 10'	*20.2	*43,230	*20.2	*43,230	*14.6	*31,420	13.8	29,800	*11.9	*25,770	10.0	21,610	*10.4	*22,630	7.7	16,520
	1.5 5'	*19.6	*46,670	*19.6	42,530	*16.6	*35,950	13.1	28,290	*13.1	*28,470	9.6	20,740	*11.1	*24,200	7.4	16,020
	0 0'	*19.4	*45,050	19.2	41,310	*18.0	*38,930	12.7	27,310	*14.1	*30,480	9.3	20,100	11.6	24,930	7.3	15,640
	-1.5 -5'	*24.4	*54,430	19.1	41,000	*18.5	*40,040	12.5	26,860	*14.5	*31,410	9.2	19,750	11.5	24,720	7.2	15,450
	-3.0 -10'	*24.0	*52,090	19.2	41,230	*18.1	*39,190	12.5	26,850	*14.2	*30,800	9.1	19,730	*11.4	*24,430	7.2	15,570
	-4.5 -15'	*21.7	*46,940	19.5	41,920	*16.6	*35,820	12.6	27,260	*12.9	*27,610	9.3	20,110				
Std. boom 7.0 m 23' 0" + Arm 4.8 m 15' 9"	7.5 25'																
	6.0 20'																
	4.5 15'																
	3.0 10'	*17.0	*36,460	*17.0	*36,460	*12.8	*27,600	*12.8	*27,600	*10.7	*23,130	10.1	21,790	*9.4	*20,560	7.7	16,510
	1.5 5'	21.2	*45,780	20.1	43,280	*15.1	*32,720	13.2	28,520	*12.1	*26,180	9.6	20,740	*10.3	*22,410	7.4	15,890
	0 0'	*23.6	*51,480	19.1	41,140	*16.9	*36,630	12.6	27,170	*13.2	*28,720	9.2	19,890	*11.1	*24,010	7.1	15,370
	-1.5 -5'	*24.8	*53,660	18.7	40,240	*17.9	*38,830	12.2	26,390	*14.0	*30,340	9.0	19,340	11.3	24,310	7.0	15,030
	-3.0 -10'	*24.5	*53,090	18.7	40,110	*18.1	*39,190	12.1	26,120	*14.2	*30,710	8.9	19,120	11.2	24,190	6.9	14,920
	-4.5 -15'	*23.1	*49,880	18.8	40,530	*17.3	*37,450	12.2	26,290	*13.6	*29,300	8.9	19,250				

- Notes:
- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
 - The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
 - Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
 - Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
 - Contains metric and U.S. measurement charts.

LIFTING CAPACITY (At the arm end without bucket)

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

EC460B LC (Std. shoe 900 mm, 36", counterweight 10,000 kg, 22,050 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.							
		t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	t	lb	m / ft					
Std. boom 7.0 m 23' 0" + Arm 2.55 m 8' 4"	7.5 25'							*11.0	*24,240	*11.0	23,970					*11.1	*24,420	10.3	23,010	7.9 / 25.6	
	6.0 20'															*11.0	*24,200	8.7	19,290	8.7 / 28.4	
	4.5 15'																				
	3.0 10'																				
	1.5 5'																				
	0 0'																				
	-1.5 -5'	*23.9	*51,980	20.5	44,120	*18.5	*40,000	13.3	28,750	*14.6	*31,560	9.8	21,230				*12.1	*26,690	8.1	17,970	8.7 / 28.5
-3.0 -10'	*21.8	*47,320	20.8	44,670	*17.1	*36,980	13.5	29,090	*13.3	*28,470	10.0	21,590				*12.3	*27,080	9.4	20,880	7.9 / 25.7	
-4.5 -15'	*18.1	*38,830	*18.1	*38,830	*13.9	*29,550	13.9	29,550								*12.0	*26,420	*12.0	*26,420	6.6 / 21.3	
Std. boom 7.0 m 23' 0" + Std. arm 3.35 m 11' 0"	7.5 25'																				
	6.0 20'																				
	4.5 15'	*17.4	*37,210	*17.4	*37,210	*13.3	*28,780	*13.3	*28,780	*11.4	*24,690	10.9	23,450	*10.3	*22,550	8.3	17,830	*8.7	*19,100	7.8 / 25.2	
	3.0 10'	*22.1	*47,480	21.6	46,590	*15.6	*33,720	14.3	30,960	*12.6	*27,360	10.5	22,610	*11.0	*23,910	8.1	17,400	*9.0	*19,860	6.7 / 21.9	
	1.5 5'	*14.3	*34,560	*14.3	*34,560	*17.5	*37,830	13.8	29,680	*13.8	*29,820	10.1	21,870	*11.6	*25,260	7.9	16,990	*9.6	*21,120	6.6 / 21.3	
	0 0'	*17.6	*41,000	*17.6	*41,000	*18.6	*40,180	13.4	28,940	*14.5	*31,480	9.9	21,360	*12.0	*26,130	7.7	16,710	*10.5	*23,160	6.8 / 22.3	
	-1.5 -5'	*25.0	*54,370	20.4	43,770	*18.7	*40,580	13.3	28,660	*14.7	*31,910	9.8	21,130	*12.0	*25,920	7.7	16,630	*11.2	*24,800	7.2 / 23.6	
-3.0 -10'	*23.5	*50,970	20.5	44,140	*18.0	*38,890	13.4	28,790	*14.2	*30,540	9.8	21,230				*11.6	*25,570	8.1	18,040	8.7 / 28.4	
-4.5 -15'	*20.6	*44,530	*20.6	*44,530	*15.9	*34,240	13.6	29,330								*11.8	*25,980	10.0	22,300	7.6 / 24.5	
Std. boom 7.0 m 23' 0" + Arm 3.9 m 12' 1"	7.5 25'																				
	6.0 20'																				
	4.5 15'																				
	3.0 10'	*20.2	*43,230	*20.2	*43,230	*14.6	*31,420	14.4	31,110	*11.9	*25,770	10.5	22,590	*10.4	*22,630	8.0	17,310	*7.3	*16,030	6.2 / 20.3	
	1.5 5'	*19.6	*46,670	*19.6	44,480	*16.6	*35,950	13.7	29,600	*13.1	*28,470	10.1	21,720	*11.1	*24,200	7.8	16,810	*7.7	*16,980	6.1 / 20.0	
	0 0'	*19.4	*45,050	*19.4	43,260	*18.0	*38,930	13.3	28,620	*14.1	*30,480	9.8	21,080	*11.7	*25,380	7.6	16,430	*8.4	*18,510	6.2 / 20.3	
	-1.5 -5'	*24.4	*54,430	20.0	42,950	*18.5	*40,040	13.1	28,170	*14.5	*31,410	9.6	20,740	*11.9	25,740	7.5	16,240	*9.5	*20,960	6.6 / 21.6	
-3.0 -10'	*24.0	*52,090	20.1	43,180	*18.1	*39,190	13.1	28,160	*14.2	*30,800	9.6	20,710	*11.4	*24,430	7.6	16,360	*10.9	*23,970	7.3 / 23.9		
-4.5 -15'	*21.7	*46,940	20.4	43,870	*16.6	*35,820	13.2	28,570	*12.9	*27,610	9.8	21,100				*11.2	*24,670	8.7	19,360	8.2 / 26.7	
Std. boom 7.0 m 23' 0" + Arm 4.8 m 15' 9"	7.5 25'																				
	6.0 20'																				
	4.5 15'																				
	3.0 10'	*17.0	*36,460	*17.0	*36,460	*12.8	*27,600	*12.8	*27,600	*10.7	*23,130	10.6	22,770	*9.4	*20,560	8.0	17,300	*6.8	*14,980	5.5 / 18.0	
	1.5 5'	*21.2	*45,780	21.0	45,230	*15.1	*32,720	13.8	29,830	*12.1	*26,180	10.1	21,720	*10.3	*22,410	7.7	16,680	*7.2	*15,860	5.4 / 17.7	
	0 0'	*23.6	*51,480	20.0	43,090	*16.9	*36,630	13.2	28,470	*13.2	*28,720	9.7	20,870	*11.1	*24,010	7.5	16,160	*7.8	*17,270	5.5 / 18.0	
	-1.5 -5'	*24.8	*53,660	19.6	42,190	*17.9	*38,830	12.9	27,700	*14.0	*30,340	9.4	20,320	*11.5	*25,000	7.3	15,810	*8.8	*19,440	5.7 / 18.7	
-3.0 -10'	*24.5	*53,090	19.6	42,060	*18.1	*39,190	12.7	27,430	*14.2	*30,710	9.3	20,100	*11.5	*24,950	7.3	15,710	*10.0	*21,970	6.3 / 20.7		
-4.5 -15'	*23.1	*49,880	19.7	42,480	*17.3	*37,450	12.8	27,600	*13.6	*29,300	9.4	20,240				*10.4	*23,050	7.2	16,090	9.1 / 29.8	

- Notes:
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 - 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

Adjustable monitor

Travel alarm

Master switch

Engine restart prevention circuit

High-capacity halogen lights:

– Frame-mounted 2

– Boom-mounted 4

Batteries, 2 x 12 V / 200 Ah

Start motor, 24 V / 6.6 kW

Hydraulic system

Automatic hydraulic system

– Summation system

– Boom priority

– Arm priority

– Swing priority

Hydraulic piping

– Hammer & shear:

1 pump flow

– Quick coupler piping

Boom and arm regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Pump flow control for hammer &

shear

Multi-stage filtering system

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Straight travel circuit

Automatic two-speed travel motors

Hydraulic oil, ISO VG 46

Superstructure

Access way with handrail

Full height counterweight

10,000 kg, **22,050 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

– 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 900 mm, **36"** with triple grousers

Digging equipment

Boom: 7.0 m, **23' 0"**

Arm: 3.35 m, **11' 0"**

OPTIONAL EQUIPMENT *(Standard in certain markets)*

Engine

Block heater: 120 V

Oil bath precleaner

Diesel coolant heater

Tropical cooling kit

Fuel filler pump: 50 l/min, **13.2 gpm** with automatic shut-off

Electric

Extra lamps:

– Cab-mounted 3 (front 2, rear 1)

– Counterweight-mounted 1

Overload warning device

Rotating warning beacon

Hydraulic system

Hose rupture valve: boom, arm

Hydraulic piping

– Hammer & shear:

2 pump flow

Additional return filter

Extra piping for slope & rotator

– Slope & rotator

– Grapple

– Oil leak (drain) line

Volvo hydraulic quick-coupler, S3 size

Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32

Hydraulic oil, biodegradable 46

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

Superstructure

Full height counterweight

8,700 kg, **19,180 lb**

9,300 kg, **20,510 lb**

Hydraulic removable counterweight

Undercarriage

Full track guards

Undercover (heavy-duty 10 mm,

0.39")

Mechanically retractable track gauge

Track shoes

600/700/800 mm,

24"/28"/32" track shoes with triple grousers

600 mm, **24"** track shoe with double grouser

Digging equipment

Boom: ME 6.5 m, **21' 4"**

Arm: 2.55/3.9/4.8 m

8' 4"/12' 10"/15' 9"

3.35 m, **11' 0"** 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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Ref. No. 22 2 435 1646

Printed in USA 08/04 – 5,0
Volvo, Asheville

English

GMC