

**VOLVO EXCAVATOR**

# EC460B LC



- Engine power, gross:  
239 kW (321 hp)
- Operating weight:  
44.5 ~ 47.9 t
- Buckets (SAE)  
1,720 ~ 3,775 l
- Turbocharged VOLVO diesel engine with direct injection and charged air cooler meets EU Step 2 and EPA Tier 2 emission standards
- Contronics, 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
  - Low sound level
  - Filtered air
  - Hydraulic dampening mounts
- 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 EU Step 2 and 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

Maker	VOLVO
Model	D12C EAE2
Power output at	32 r/s (1,900 rpm)
Net (ISO 9249/ DIN 6271)	228 kW (310 ps / 306 hp)
Gross (SAE J1349)	239 kW (325 ps / 321 hp)
Max. torque	1,549 N·m (158 kg·m) at 1,400 rpm
No. of cylinders	6
Displacement	12.1 l
Bore	131 mm
Stroke	150 mm



## 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



## UNDERCARRIAGE

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

### Fixed undercarriage

No. of track pads	2 x 52
Link pitch	216 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
Shoe width, double grouser	600 mm
No. of bottom track rollers	2 x 9
No. of top rollers	2 x 2

### Mechanically retractable undercarriage

No. of track pads	2 x 52
Link pitch	216 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
Shoe width, double grouser	600 mm
No. of bottom track rollers	2 x 9
No. of top rollers	2 x 3



## 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, arm and swing priority along with boom and arm regeneration are provides optimum performance.

The following important functions are included in the system:

**Summation system:** Combining 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 deep excavation.

**Arm priority:** Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

**Swing priority:** Supplies priority to the swing operation for faster swing 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.

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

### Main pump

Type	2 x variable displacement axial piston pumps
Maximum flow	2 x 345 l/min

### Pilot pump

Type	Gear pump
Maximum flow	1 x 28 l/min

### 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 (320 / 350 kg/cm <sup>2</sup> )
Travel circuit	31.4 Mpa (320 kg/cm <sup>2</sup> )
Swing circuit	24.5 Mpa (250 kg/cm <sup>2</sup> )
Pilot circuit	3.9 Mpa (40 kg/cm <sup>2</sup> )

### Hydraulic cylinders

Boom	2	bore x stroke	∅165 x 1,590 mm
Arm	1	bore x stroke	∅190 x 1,850 mm
Bucket	1	bore x stroke	∅165 x 1,335 mm
ME bucket	1	bore x stroke	∅175 x 1,335 mm



## SERVICE REFILL CAPACITIES

Fuel tank	685 l
Hydraulic system, total	525 l
Hydraulic tank	270 l
Engine oil	39 l
Engine coolant	65.4 l
Swing reduction unit	2 x 6.0 l
Travel reduction unit	2 x 5.5 l





## 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. tractive effort ..... 324.6 kN (33,100 kg)  
Max. travel speed ..... 2.9 / 4.8 km/h  
Gradeability ..... 35° (70%)



## 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



## 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 a 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. The glass is stored in the door.

### Integrated air conditioning and heating system:

The pressurized and filtered cab air is supplied by automatically controlled fan. The air is distributed via 13 vents.

**Ergonomic operator's seat:** The adjustable seat and joystick consoles move independently to accommodate the operator. The seat has nine different adjustments and a seat belt to meet any 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 ..... LwA 109 dB(A)  
(Directive 2000/14/EC)



## GROUND PRESSURE

- Machine with fixed undercarriage 7.0 m boom, 3.35 m arm, 2,060 l (1,730 kg) bucket and 8,700 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	44,500 kg	77.5 kPa (0.79 kg/cm <sup>2</sup> )	3,340 mm
	700 mm	45,000 kg	66.7 kPa (0.68 kg/cm <sup>2</sup> )	3,440 mm
	800 mm	45,500 kg	59.8 kPa (0.61 kg/cm <sup>2</sup> )	3,540 mm
	900 mm	46,020 kg	53.9 kPa (0.55 kg/cm <sup>2</sup> )	3,640 mm
Double grouser	600 mm	44,250 kg	77.5 kPa (0.79 kg/cm <sup>2</sup> )	3,340 mm

- Machine with retractable undercarriage 7.0 m boom, 3.35 m arm, 2,060 l (1,730 kg) bucket and 8,700 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	45,700 kg	79.4 kPa (0.81 kg/cm <sup>2</sup> )	3,490 mm
	700 mm	46,220 kg	68.6 kPa (0.70 kg/cm <sup>2</sup> )	3,590 mm
	800 mm	46,740 kg	60.8 kPa (0.62 kg/cm <sup>2</sup> )	3,690 mm
	900 mm	47,280 kg	54.9 kPa (0.56 kg/cm <sup>2</sup> )	3,790 mm
Double grouser	600 mm	45,450 kg	79.4 kPa (0.81 kg/cm <sup>2</sup> )	3,490 mm

- Machine with fixed undercarriage 7.0 m boom, 3.35 m arm, 2,060 l (1,730 kg) bucket and 9,300 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	45,100 kg	78.4 kPa (0.80 kg/cm <sup>2</sup> )	3,340 mm
	700 mm	45,600 kg	67.7 kPa (0.69 kg/cm <sup>2</sup> )	3,440 mm
	800 mm	46,100 kg	59.8 kPa (0.61 kg/cm <sup>2</sup> )	3,540 mm
	900 mm	46,620 kg	53.9 kPa (0.55 kg/cm <sup>2</sup> )	3,640 mm
Double grouser	600 mm	44,850 kg	78.4 kPa (0.80 kg/cm <sup>2</sup> )	3,340 mm

- Machine with retractable undercarriage 7.0 m boom, 3.35 m arm, 2,060 l (1,730 kg) bucket and 9,300 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	46,300 kg	80.4 kPa (0.80 kg/cm <sup>2</sup> )	3,490 mm
	700 mm	46,820 kg	69.6 kPa (0.71 kg/cm <sup>2</sup> )	3,590 mm
	800 mm	47,340 kg	61.8 kPa (0.63 kg/cm <sup>2</sup> )	3,690 mm
	900 mm	47,880 kg	55.9 kPa (0.57 kg/cm <sup>2</sup> )	3,790 mm
Double grouser	600 mm	46,050 kg	80.4 kPa (0.82 kg/cm <sup>2</sup> )	3,490 mm

## BUCKET & ARM COMBINATION

• Volvo K-GP bucket (straight side) with fixed undercarriage

Description		Narrow bucket	Standard bucket	Wide bucket	
Bucket capacity	SAE	1,720 l	2,060 l	2,450 l	
	CECE	1,500 l	1,800 l	2,100 l	
Bucket width	with side cutter	1,445 mm	1,655 mm	1,895 mm	
	without side cutter	1,295 mm	1,505 mm	1,745 mm	
Weight (with side cutter)		1,605 kg	1,730 kg	1,920 kg	
No. of teeth		5	5	6	
Application		Trenching	General purpose	Loading service	
8,700 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A
		3.35 m	A	A	B
		3.9 m	A	B	C
		4.8 m	A	C	D
9,300 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A
		3.35 m	A	A	B
		3.9 m	A	A	C
		4.8 m	A	C	C

• Volvo HARDOX 400® bucket (curved side) with fixed undercarriage

Description		Direct fit - GP bucket			Quick fit - GP bucket		ME - GP bucket
Bucket capacity	SAE	1,900 l	2,100 l	2,300 l	1,900 l	2,100 l	2,600 l
	CECE	1,690 l	1,860 l	2,030 l	1,690 l	1,860 l	2,280 l
Cutting width		1,550 mm	1,700 mm	1,800 mm	1,550 mm	1,700 mm	1,930 mm
Weight		1,720 kg	1,810 kg	1,900 kg	1,700 kg	1,790 kg	1,845 kg
No. of teeth		5	5	5	5	5	5
Application		Tough condition	Tough condition	Tough condition	Tough condition	Tough condition	Loading service
8,700 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A	A	A
		3.35 m	A	A	B	A	B
		3.9 m	A	B	C	B	C
		4.8 m	C	C	D	C	C
9,300 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A	A	A
		3.35 m	A	A	B	A	A
		3.9 m	A	B	C	A	B
		4.8 m	B	C	C	C	C

- A: Applicable for general purpose up to 2,000 kg/m<sup>3</sup>  
 B: Applicable for general purpose up to 1,800 kg/m<sup>3</sup>  
 C: Applicable for general purpose up to 1,500 kg/m<sup>3</sup>  
 D: Applicable for general purpose up to 1,200 kg/m<sup>3</sup>



## BUCKET & ARM COMBINATION

• **Volvo K-GP bucket (straight side)** with mechanically retractable undercarriage

Description		Narrow bucket	Standard bucket	Wide bucket	
Bucket capacity	SAE	1,720 l	2,060 l	2,450 l	
	CECE	1,500 l	1,800 l	2,100 l	
Bucket width	with side cutter	1,445 mm	1,655 mm	1,895 mm	
	without side cutter	1,295 mm	1,505 mm	1,745 mm	
Weight (with side cutter)		1,605 kg	1,730 kg	1,920 kg	
No. of teeth		5	5	6	
Application		Trenching	General purpose	Loading service	
8,700 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A
		3.35 m	A	A	B
		3.9 m	A	A	C
	4.8 m	A	C	C	
9,300 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A
		3.35 m	A	A	B
		3.9 m	A	A	C
	4.8 m	A	B	C	

• **Volvo HARDOX 400® bucket (curved side)** with mechanically retractable undercarriage

Description		Direct fit - GP bucket			Quick fit - GP bucket		ME - GP bucket	
Bucket capacity	SAE	1,900 l	2,100 l	2,300 l	1,900 l	2,100 l	2,600 l	
	CECE	1,690 l	1,860 l	2,030 l	1,690 l	1,860 l	2,280 l	
Cutting width		1,550 mm	1,700 mm	1,800 mm	1,550 mm	1,700 mm	1,930 mm	
Weight		1,720 kg	1,810 kg	1,900 kg	1,700 kg	1,790 kg	1,845 kg	
No. of teeth		5	5	5	5	5	5	
Application		Tough condition	Tough condition	Tough condition	Tough condition	Tough condition	Tough condition	
8,700 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A	A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A	A	A	-
		3.35 m	A	A	B	A	A	-
		3.9 m	A	B	C	A	B	-
	4.8 m	B	C	C	C	C	-	
9,300 kg counterweight	ME boom 6.5 m + arm 2.55 m		A	A	A	A	A	A
	Boom 7.0m + arm options	2.55 m	A	A	A	A	A	-
		3.35 m	A	A	A	A	A	-
		3.9 m	A	B	B	A	B	-
	4.8 m	B	C	C	B	C	-	

A: Applicable for general purpose up to 2,000 kg/m<sup>3</sup>

B: Applicable for general purpose up to 1,800 kg/m<sup>3</sup>

C: Applicable for general purpose up to 1,500 kg/m<sup>3</sup>

D: Applicable for general purpose up to 1,200 kg/m<sup>3</sup>

## 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 direct fit buckets:

**Fixed undercarriage**, counterweight 8,700 kg / 9,300 kg\*

Description	Unit	6.5 m ME boom	7.0 m Boom			
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
GP bucket 1.5 t/m <sup>3</sup>	l	3,575 / 3,725*	3,300 / 3,425*	3,000 / 3,125*	2,750 / 2,850*	2,425 / 2,525*
GP bucket 1.8 t/m <sup>3</sup>	l	3,125 / 3,275*	2,875 / 3,000*	2,625 / 2,725*	2,400 / 2,500*	2,125 / 2,225*
RB bucket 1.8 t/m <sup>3</sup>	l	2,900 / 3,000*	2,650 / 2,775*	2,425 / 2,525*	2,200 / 2,300*	1,950 / 2,050*
RB bucket 2.0 t/m <sup>3</sup>	l	2,675 / 2,800*	2,475 / 2,575*	2,250 / 2,325*	2,050 / 2,150*	1,825 / 1,900*

● Max. permitted sizes for quick fit buckets:

**Fixed undercarriage**, counterweight 8,700 kg / 9,300 kg\*

Description	Unit	6.5 m ME boom	7.0 m Boom			
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
GP bucket 1.5 t/m <sup>3</sup>	l	3,450 / 3,600*	3,150 / 3,300*	2,850 / 2,975*	2,600 / 2,725*	2,300 / 2,400*
GP bucket 1.8 t/m <sup>3</sup>	l	3,025 / 3,150*	2,775 / 2,875*	2,500 / 2,600*	2,275 / 2,375*	2,000 / 2,100*
RB bucket 1.8 t/m <sup>3</sup>	l	2,775 / 2,900*	2,550 / 2,650*	2,300 / 2,400*	2,100 / 2,200*	1,850 / 1,950*
RB bucket 2.0 t/m <sup>3</sup>	l	2,575 / 2,700*	2,350 / 2,475*	2,150 / 2,225*	1,950 / 2,050*	1,725 / 1,800*

● Max. permitted sizes for direct fit buckets:

**Mechanically retractable undercarriage**, counterweight 8,700 kg / 9,300 kg\*

Description	Unit	6.5 m ME boom	7.0 m Boom			
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
GP bucket 1.5 t/m <sup>3</sup>	l	3,625 / 3,775*	3,350 / 3,475*	3,050 / 3,175*	2,775 / 2,900*	2,475 / 2,575*
GP bucket 1.8 t/m <sup>3</sup>	l	3,175 / 3,300*	2,925 / 3,050*	2,650 / 2,775*	2,425 / 2,550*	2,150 / 2,250*
RB bucket 1.8 t/m <sup>3</sup>	l	2,925 / 3,050*	2,700 / 2,800*	2,450 / 2,550*	2,250 / 2,350*	2,000 / 2,075*
RB bucket 2.0 t/m <sup>3</sup>	l	2,725 / 2,825*	2,500 / 2,600*	2,275 / 2,375*	2,075 / 2,175*	1,850 / 1,925*

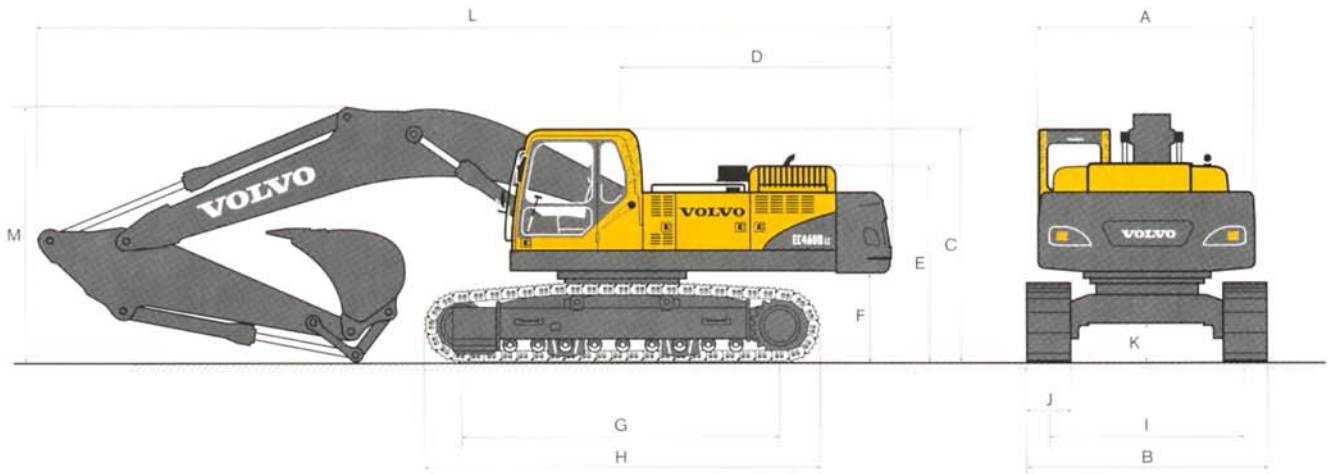
● Max. permitted sizes for quick fit buckets:

**Mechanically retractable undercarriage**, counterweight 8,700 kg / 9,300 kg\*

Description	Unit	6.5 m ME boom	7.0 m Boom			
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
GP bucket 1.5 t/m <sup>3</sup>	l	3,500 / 3,650*	3,200 / 3,350*	2,900 / 3,025*	2,650 / 2,775*	2,325 / 2,450*
GP bucket 1.8 t/m <sup>3</sup>	l	3,050 / 3,200*	2,800 / 2,925*	2,550 / 2,650*	2,325 / 2,425*	2,050 / 2,150*
RB bucket 1.8 t/m <sup>3</sup>	l	2,825 / 2,950*	2,600 / 2,700*	2,350 / 2,450*	2,150 / 2,250*	1,875 / 1,975*
RB bucket 2.0 t/m <sup>3</sup>	l	2,625 / 2,725*	2,400 / 2,500*	2,175 / 2,275*	1,975 / 2,075*	1,750 / 1,825*



## DIMENSIONS



### • Machine with fixed undercarriage

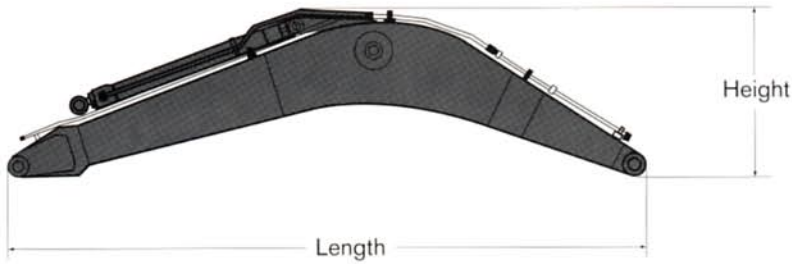
Description	Unit	6.5 m ME boom	7.0 m Boom			
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
A. Overall width of superstructure	mm	2,990	2,990	2,990	2,990	2,990
B. Overall width	mm	3,340	3,340	3,340	3,340	3,340
C. Overall height of cab	mm	3,250	3,250	3,250	3,250	3,250
D. Tail swing radius	mm	3,730	3,730	3,730	3,730	3,730
E. Overall height of engine hood	mm	2,750	2,750	2,750	2,750	2,750
F. Counterweight clearance *	mm	1,275	1,275	1,275	1,275	1,275
G. Tumbler length	mm	4,370	4,370	4,370	4,370	4,370
H. Track length	mm	5,370	5,370	5,370	5,370	5,370
I. Track gauge	mm	2,740	2,740	2,740	2,740	2,740
J. Shoe width	mm	600	600	600	600	600
K. Min. ground clearance *	mm	550	550	550	550	550
L. Overall length	mm	11,560	12,060	12,070	12,070	11,940
M. Overall height of boom	mm	3,770	3,630	3,650	3,690	4,650

### • Machine with mechanically retractable undercarriage

Description	Unit	6.5 m ME boom	7.0 m Boom			
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
A. Overall width of superstructure	mm	2,990	2,990	2,990	2,990	2,990
B. Overall width (extended)	mm	3,490	3,490	3,490	3,490	3,490
Overall width (retracted)	mm	2,990	2,990	2,990	2,990	2,990
C. Overall height of cab	mm	3,360	3,360	3,360	3,360	3,360
D. Tail swing radius	mm	3,730	3,730	3,730	3,730	3,730
E. Overall height of engine hood	mm	2,860	2,860	2,860	2,860	2,860
F. Counterweight clearance *	mm	1,385	1,385	1,385	1,385	1,385
G. Tumbler length	mm	4,370	4,370	4,370	4,370	4,370
H. Track length	mm	5,370	5,370	5,370	5,370	5,370
I. Track gauge (extended)	mm	2,890	2,890	2,890	2,890	2,890
Track gauge (retracted)	mm	2,390	2,390	2,390	2,390	2,390
J. Shoe width	mm	600	600	600	600	600
K. Min. ground clearance *	mm	746	746	746	746	746
L. Overall length	mm	11,540	12,060	12,070	12,070	11,940
M. Overall height of boom	mm	3,800	3,770	3,790	3,830	4,790

\* Without shoe grouser

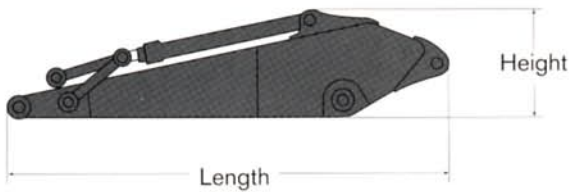
## DIMENSIONS



### • Boom

Description	6.5 m ME	7.0 m
Length	6,750 mm	7,250 mm
Height	2,000 mm	1,840 mm
Width	960 mm	960 mm
Weight	3,900 kg	3,880 kg

\* Includes cylinder, piping and linkage



### • Arm

Description	2.55 m	3.35 m	3.9 m	4.8 m
Length	3,770 mm	4,590 mm	5,140 mm	6,100 mm
Height	1,235 mm	1,230 mm	1,240 mm	1,250 mm
Width	600 mm	600 mm	600 mm	600 mm
Weight	2,200 kg	2,245 kg	2,455 kg	2,615 kg

\* Includes cylinder, piping and linkage

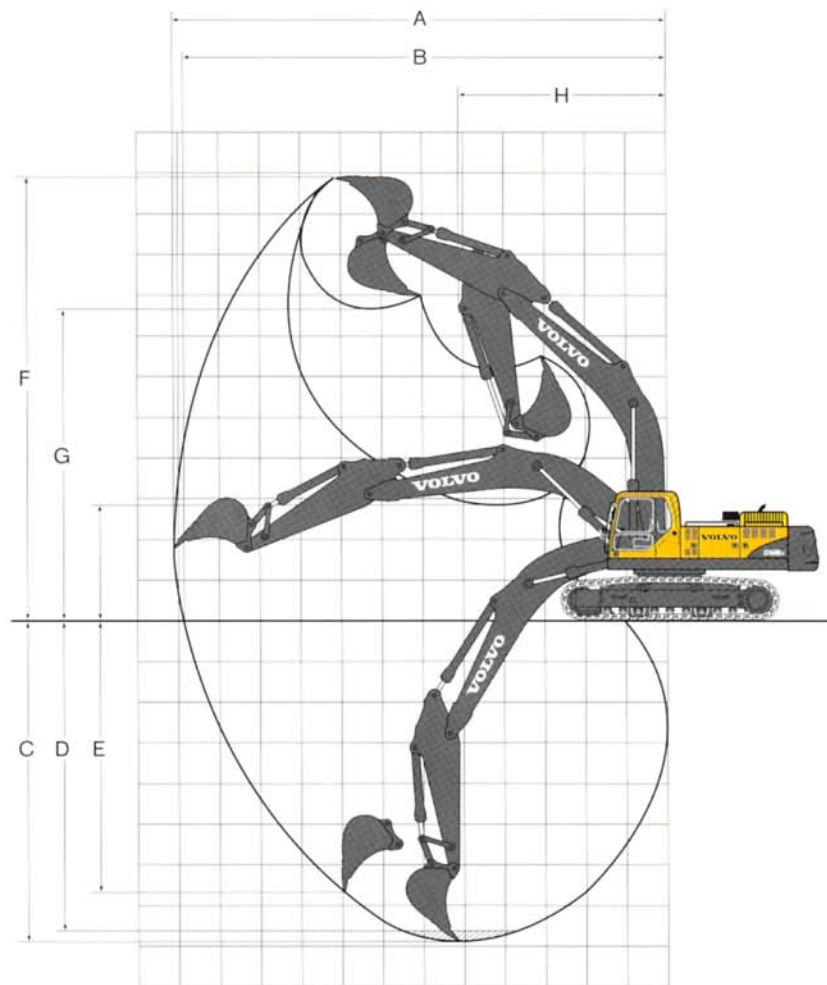
## DIGGING FORCES

### • Digging forces with direct fit bucket

Description			Unit	6.5 m ME boom		7.0 m Boom				
				2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm		
Bucket radius			mm	1,923	1,810	1,810	1,810	1,810	1,810	
Breakout force – bucket	SAE	Normal	kN	245.2	222.6	222.6	222.6	222.6	222.6	
		Power boost	kg	25,000	22,700	22,700	22,700	22,700	22,700	
	ISO	Normal	kN	267.7	244.2	244.2	244.2	244.2	244.2	
		Power boost	kg	27,300	24,900	24,900	24,900	24,900	24,900	
Tearout force – arm	SAE	Normal	kN	276.5	253.0	253.0	253.0	253.0	253.0	
		Power boost	kg	28,200	25,800	25,800	25,800	25,800	25,800	
	ISO	Normal	kN	302.0	276.5	276.5	276.5	276.5	276.5	
		Power boost	kg	30,800	28,200	28,200	28,200	28,200	28,200	
Tearout force – arm	SAE	Normal	kN	217.7	224.6	190.2	170.6	154.9		
		Power boost	kg	22,200	22,900	19,400	17,400	15,800		
	ISO	Normal	kN	237.3	245.2	208.9	186.3	169.6		
		Power boost	kg	24,200	25,000	21,300	19,000	17,300		
Tearout force – arm	ISO	Normal	kN	224.6	231.4	195.1	173.6	157.9		
		Power boost	kg	22,900	23,600	19,900	17,700	16,100		
Tearout force – arm	ISO	Normal	kN	246.1	253.0	213.8	190.2	172.6		
		Power boost	kg	25,100	25,800	21,800	19,400	17,600		
Rotation angle, bucket			deg	169	183	183	183	183		



## WORKING RANGES



• Machine with direct fit GP bucket: fixed undercarriage

Description	Unit	6.5 m ME boom		7.0 m Boom		
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
A. Max. digging reach	mm	10,900	11,310	12,000	12,500	13,220
B. Max. digging reach on ground	mm	10,660	11,070	11,780	12,290	13,020
C. Max. digging depth	mm	6,570	6,900	7,700	8,250	9,150
D. Max. digging depth (8° level)	mm	6,400	6,720	7,550	8,120	9,030
E. Max. vertical wall digging depth	mm	5,800	6,150	6,840	7,300	7,730
F. Max. cutting height	mm	10,580	10,820	10,970	11,150	11,090
G. Max. dumping height	mm	6,980	7,440	7,650	7,840	7,870
H. Min. front swing radius	mm	4,770	5,170	5,090	4,990	5,040















• Machine with direct fit GP bucket: mechanically retractable undercarriage

Description	Unit	6.5 m ME boom		7.0 m Boom		
		2.55 m Arm	2.55 m Arm	3.35 m Arm	3.9 m Arm	4.8 m Arm
A. Max. digging reach	mm	10,900	11,310	12,000	12,500	13,220
B. Max. digging reach on ground	mm	10,630	11,050	11,750	12,260	12,990
C. Max. digging depth	mm	6,440	6,770	7,570	8,120	9,020
D. Max. digging depth (8° level)	mm	6,270	6,590	7,420	7,980	8,900
E. Max. vertical wall digging depth	mm	5,670	6,020	6,710	7,170	7,600
F. Max. cutting height	mm	10,710	10,950	11,110	11,280	11,220
G. Max. dumping height	mm	7,110	7,570	7,780	7,970	8,000
H. Min. front swing radius	mm	4,770	5,170	5,090	4,990	5,040

# LIFTING CAPACITY (At the arm and without bucket)

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

## EC460B LC with fixed undercarriage
















 Across undercarriage  Along undercarriage	Lifting hook related to ground level	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
														Max. mm
with 600 mm shoe 8,700 kg CWT ME boom 6.5 m + Arm 2.55 m	6.0 m kg					*12,860	*12,860	*11,840	9,880			*11,050	8,620	8,140
	4.5 m kg			*19,240	*19,240	*14,670	13,450	*12,580	9,630			*11,060	7,650	8,680
	3.0 m kg			*22,060	19,330	*16,720	12,820	*13,590	9,310			*11,340	7,170	8,940
	1.5 m kg			*15,740	*15,740	*18,290	12,340	*14,460	9,040			*11,210	7,060	8,940
	0.0 m kg			*23,190	18,500	*18,930	12,090	14,390	8,880			*11,640	7,300	8,680
	-1.5 m kg	*16,930	*16,930	*24,370	18,570	*18,520	12,050	14,380	8,860			*12,810	7,990	8,130
	-3.0 m kg	*28,150	*28,150	*21,790	18,830	*16,760	12,210					*13,030	9,510	7,230
-4.5 m kg			*16,830	*16,830							*12,390	*12,390	5,810	
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 2.55 m	6.0 m kg					*12,630	*12,630	*11,310	9,910			*10,980	7,760	8,710
	4.5 m kg			*14,650	13,260	*12,250	9,580	*11,110	7,260			*10,940	6,980	9,220
	3.0 m kg			*16,750	12,580	*13,350	9,230	*11,210	7,100			*10,380	6,590	9,460
	1.5 m kg			*18,240	12,110	*14,270	8,940	*11,050	6,960			*10,280	6,490	9,460
	0.0 m kg			*18,790	11,900	*14,260	8,770	*10,970	6,880			*10,610	6,670	9,210
	-1.5 m kg			*23,890	18,340	*18,450	11,880	14,230	8,740			*11,530	7,220	8,700
	-3.0 m kg	*25,020	*25,020	*21,800	18,590	*17,100	12,030	*13,300	8,880			*12,280	8,380	7,870
-4.5 m kg			*18,060	*18,060	*13,930	12,410					*12,020	10,970	6,590	
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 3.35 m	6.0 m kg					*10,290	10,140	*9,860	7,570			*8,660	6,940	9,460
	4.5 m kg			*17,390	*17,390	*13,320	*13,320	*11,360	9,790			*10,320	7,410	8,730
	3.0 m kg			*22,140	19,420	*15,620	12,900	*12,620	9,390			*10,980	7,200	*9,030
	1.5 m kg			*14,340	*14,340	*17,490	12,310	*13,750	9,050			*11,120	7,010	9,300
	0.0 m kg			*17,590	*17,590	*18,550	11,970	14,320	8,810			*10,960	6,870	9,540
	-1.5 m kg	*12,690	*12,690	*25,020	18,190	*18,720	11,850	14,200	8,710			*10,920	6,830	10,210
	-3.0 m kg	*21,670	*21,670	*23,500	18,360	*17,960	11,910	*14,150	8,740			*11,560	7,240	8,690
-4.5 m kg	*27,480	*27,480	*20,640	18,720	*15,930	12,140	*11,970	9,000			*11,780	8,910	7,560	
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 3.9 m	6.0 m kg					*9,450	*9,450	*9,090	7,600			*6,990	6,320	9,990
	4.5 m kg			*20,150	19,720	*14,550	12,950	*11,880	9,820			*7,050	5,780	10,440
	3.0 m kg			*19,550	18,460	*16,630	12,260	*13,130	9,380			*10,390	7,150	*7,280
	1.5 m kg			*19,410	17,920	*17,980	11,810	*14,060	8,680			*10,840	6,740	*8,390
	0.0 m kg			*24,360	17,790	*18,480	11,610	14,010	8,520			*10,730	6,650	9,290
	-1.5 m kg	*12,720	*12,720	*24,360	17,790	*18,480	11,610	14,010	8,520			*10,730	6,650	9,290
	-3.0 m kg	*19,640	*19,640	*24,030	17,900	*18,090	11,600	13,990	8,500			*10,770	6,680	10,350
-4.5 m kg	*28,640	*28,640	*21,730	18,210	*16,620	11,780	*12,910	8,660			*11,180	7,710	8,220	
-6.0 m kg			*17,480	*17,480	*13,150	12,220					*11,160	10,590	6,670	
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 4.8 m	6.0 m kg					*9,250	*9,250	*8,600	7,450			*6,480	5,590	10,760
	4.5 m kg			*16,980	*16,980	*12,770	*12,770	*10,660	9,460			*9,650	7,400	*6,570
	3.0 m kg			*21,240	18,810	*15,130	12,370	*12,070	8,980			*10,310	6,860	*7,200
	1.5 m kg			*23,570	17,840	*16,920	11,750	*13,240	8,580			*10,730	6,620	7,780
	0.0 m kg			*19,410	17,920	*17,980	11,810	*14,060	8,680			*10,840	6,740	*8,390
	-1.5 m kg	*12,870	*12,870	*24,770	17,440	*17,920	11,390	13,830	8,330			*10,550	6,460	8,170
	-3.0 m kg	*18,000	*18,000	*24,500	17,380	*18,090	11,270	13,710	8,230			*10,490	6,400	8,940
-4.5 m kg	*24,690	*24,690	*23,070	17,570	*17,330	11,340	*13,590	8,280			*10,600	6,500	10,090	
-6.0 m kg	*28,230	*28,230	*20,130	18,000	*15,250	11,630	*11,580	8,540			*10,880	8,140	7,780	
with 600 mm shoe 9,300 kg CWT ME boom 6.5 m + Arm 2.55 m	6.0 m kg					*12,860	*12,860	*11,840	10,250			*11,050	8,940	8,140
	4.5 m kg			*19,240	*19,240	*14,670	13,930	*12,580	9,990			*11,060	7,950	8,680
	3.0 m kg			*22,060	20,050	*16,720	13,300	*13,590	9,670			*11,440	7,470	8,940
	1.5 m kg			*15,740	*15,740	*18,290	12,820	*14,460	9,400			*11,580	7,350	8,940
	0.0 m kg			*23,190	19,220	*18,930	12,570	14,860	9,240			*12,020	7,600	8,680
	-1.5 m kg	*16,930	*16,930	*24,370	19,290	*18,520	12,530	*14,460	9,220			*12,910	8,310	8,130
	-3.0 m kg	*28,150	*28,150	*21,790	19,550	*16,760	12,690					*13,030	9,880	7,230
-4.5 m kg			*16,830	*16,830							*12,390	*12,390	5,810	
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 2.55 m	6.0 m kg					*12,630	*12,630	*11,310	10,270			*10,980	8,060	8,710
	4.5 m kg			*14,650	13,740	*12,250	10,150	*11,360	9,940			*11,060	7,260	9,220
	3.0 m kg			*16,750	13,060	*13,350	9,590	*11,570	7,390			*10,720	6,860	9,460
	1.5 m kg			*18,240	12,590	*14,270	9,300	*11,420	7,250			*10,620	6,760	9,460
	0.0 m kg			*18,790	12,380	*14,730	9,130	*11,330	7,170			*10,970	6,950	9,210
	-1.5 m kg			*23,890	19,060	*18,450	12,360	*14,580	9,100			*11,920	7,520	8,700
	-3.0 m kg	*25,020	*25,020	*21,800	19,310	*17,100	12,510	*13,300	9,250			*12,280	8,720	7,870
-4.5 m kg			*18,060	*18,060	*13,930	12,890					*12,020	11,390	6,590	
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 3.35 m	6.0 m kg					*10,290	*10,290	*9,860	7,860			*8,660	7,210	9,460
	4.5 m kg			*17,390	*17,390	*13,320	*13,320	*11,360	10,150			*10,320	7,700	8,730
	3.0 m kg			*22,140	*20,140	*15,620	13,380	*12,620	9,750			*10,980	7,490	*9,030
	1.5 m kg			*14,340	*14,340	*17,490	12,790	*13,750	9,410			*11,480	7,300	*9,580
	0.0 m kg			*17,590	*17,590	*18,550	12,450	*14,520	9,170			*11,330	7,160	9,860
	-1.5 m kg	*12,690	*12,690	*25,020	18,910	*18,720	12,330	14,670	9,070			*11,280	7,120	10,550
	-3.0 m kg	*21,670	*21,670	*23,500	19,080	*17,960	12,390	*14,150	9,100			*11,590	7,540	8,450
-4.5 m kg	*27,480	*27,480	*20,640	19,440	*15,930	12,620	*11,970	9,360			*11,780	9,260	7,560	
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 3.9 m	6.0 m kg					*9,450	*9,450	*9,090	7,890			*6,990	6,580	9,990
	4.5 m kg			*20,150	*20,150	*14,550	13,430	*11,880	10,180			*7,050	6,020	10,440
	3.0 m kg			*19,550	19,180	*16,630	12,740	*13,130	9,740			*10,390	7,440	*7,280
	1.5 m kg			*19,410	18,640	*17,980	12,290	*14,060	9,040			*11,130	7,210	*7,710
	0.0 m kg			*24,360	18,510	*18,480	12,090	14,470	8,880			*11,200	7,030	*8,390
	-1.5 m kg	*12,720	*12,720	*24,360	18,510	*18,480	12,090	14,470	8,880			*11,100	6,940	*9,490
	-3.0 m kg	*19,640	*19,640	*24,030	18,620	*18,090	12,090	*14,240	8,860			*11,140	6,970	10,700
-4.5 m kg	*28,640	*28,640	*21,730	18,930	*16,620	12,260	*12,910	9,020			*11,180	8,030	8,220	
-6.0 m kg			*17,480	*17,480	*13,150	12,700					*11,160	11,010	6,670	
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 4.8 m	6.0 m kg					*9,250	*9,250	*8,600	7,740			*6,480	5,820	10,760
	4.5 m kg			*16,980	*16,980	*12,770	*12,770	*10,660	9,820			*9,650	7,400	*6,570
	3.0 m kg			*21,240	19,530	*15,130								



# LIFTING CAPACITY (At the arm and without bucket)

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

## EC460B LC with mechanically retractable undercarriage

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach			
															Max. mm
with 600 mm shoe 8,700 kg CWT ME boom 6.5 m + Arm 2.55 m	6.0 m	kg					*13,000	*13,000	*11,890	10,000			*11,040	8,610	8,200
	4.5 m	kg			*19,690	*19,690	*14,860	13,560	*12,670	9,730			*11,070	7,690	8,720
	3.0 m	kg					*16,900	12,930	*13,680	9,410			*11,470	7,250	8,950
	1.5 m	kg			*16,090	*16,090	*18,390	12,480	*14,520	9,150			*11,400	7,170	8,920
	0.0 m	kg			*24,220	18,760	*18,930	12,250	*14,600	9,000			*11,890	7,450	8,640
	-1.5 m	kg	*18,290	*18,290	*24,190	18,840	*18,420	12,230	*14,360	9,000			*12,940	8,200	8,060
	-3.0 m	kg	*27,690	*27,690	*21,460	19,120	*16,490	12,410					*13,020	9,860	7,120
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 2.55 m	6.0 m	kg					*12,800	*12,800	*11,380	10,020			*10,980	7,780	8,770
	4.5 m	kg					*14,850	13,380	*12,350	9,690	*11,150	7,360	*11,050	7,030	9,250
	3.0 m	kg					*16,930	12,710	*13,450	9,340	*11,380	7,200	*10,520	6,670	9,470
	1.5 m	kg					*18,330	12,260	*14,340	9,060	*11,220	7,060	*10,460	6,600	9,450
	0.0 m	kg			*13,680	*13,680	*18,790	12,070	*14,490	8,900	*11,150	6,990	*10,460	6,820	9,180
	-1.5 m	kg			*23,740	18,640	*18,370	12,070	*14,470	8,880			*11,850	7,420	8,640
	-3.0 m	kg	*26,440	*26,440	*21,540	18,900	*16,910	12,240	*13,070	9,050			*12,290	8,670	7,770
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 3.35 m	6.0 m	kg					*13,540	*13,540	*10,380	10,240	*9,890	7,660	*8,660	6,960	9,510
	4.5 m	kg			*17,850	*17,850	*15,540	13,000	*11,480	9,880	*10,380	7,500	*8,750	6,360	9,960
	3.0 m	kg			*20,610	19,550	*15,820	13,000	*12,730	9,490	*11,040	7,290	*9,060	6,060	10,160
	1.5 m	kg			*14,380	*14,380	*17,630	12,440	*13,840	9,150	*11,270	7,100	*9,450	5,980	10,140
	0.0 m	kg			*18,140	*18,140	*18,600	12,120	*14,520	8,930	*11,130	6,970	*9,730	6,130	9,890
	-1.5 m	kg	*13,490	*13,490	*24,950	18,460	*18,690	12,020	*14,410	8,830	*11,090	6,930	*10,460	6,570	9,390
	-3.0 m	kg	*22,600	*22,600	*23,300	18,640	*17,840	12,090	*14,040	8,880			*11,610	7,450	8,600
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 3.9 m	6.0 m	kg					*12,410	*12,410	*9,540	*9,540	*9,130	7,690	*6,990	6,350	10,050
	4.5 m	kg					*14,770	13,060	*12,000	9,470	*10,460	7,240	*7,310	5,560	10,660
	3.0 m	kg			*19,150	18,660	*16,790	12,390	*13,230	9,080	*11,190	7,010	*7,760	5,480	10,640
	1.5 m	kg			*19,710	18,170	*18,060	11,970	*14,120	8,800	*11,000	6,840	*8,480	5,590	10,400
	0.0 m	kg			*25,000	18,070	*18,480	11,790	*14,230	8,650	*10,910	6,760	*9,520	5,940	9,930
	-1.5 m	kg	*13,320	*13,320	*20,360	18,190	*18,010	11,800	*14,180	8,650	*10,970	6,810	*10,670	6,640	9,190
	-3.0 m	kg	*29,500	*29,500	*21,440	18,520	*16,410	11,990	*12,690	8,830			*11,200	8,010	8,100
with 600 mm shoe 8,700 kg CWT Boom 7.0 m + Arm 4.8 m	6.0 m	kg					*13,000	*13,000	*9,370	*9,370	*7,980	7,790	*6,480	5,620	10,810
	4.5 m	kg			*17,420	*17,420	*15,300	12,490	*10,790	9,550	*9,520	7,240	*6,830	4,930	11,390
	3.0 m	kg			*21,560	18,960	*15,330	12,900	*12,190	9,070	*10,380	6,950	*7,250	4,840	11,370
	1.5 m	kg			*23,460	18,060	*17,040	11,890	*13,330	8,690	*10,890	6,710	*7,910	4,910	11,140
	0.0 m	kg			*24,790	17,690	*17,970	11,560	*14,030	8,450	*10,720	6,560	*8,370	5,150	10,700
	-1.5 m	kg	*13,300	*13,300	*18,540	18,540	*18,420	17,660	*18,060	11,450	*13,940	8,360	*10,670	6,510	9,190
	-3.0 m	kg	*25,430	*25,430	*22,870	17,870	*17,210	11,540	*13,480	8,430	*10,550	6,630	*10,480	6,600	9,030
with 600 mm shoe 9,300 kg CWT ME boom 6.5 m + Arm 2.55 m	6.0 m	kg					*13,000	*13,000	*11,890	10,360			*11,040	8,940	8,200
	4.5 m	kg			*19,690	*19,690	*14,860	14,050	*12,670	10,090			*11,070	7,990	8,720
	3.0 m	kg					*16,900	13,410	*13,680	9,770			*11,490	7,540	8,950
	1.5 m	kg			*16,090	*16,090	*18,390	12,960	*14,520	9,510			*11,770	7,460	8,920
	0.0 m	kg			*24,220	19,480	*18,930	12,730	*14,880	9,360			*12,280	7,750	8,640
	-1.5 m	kg	*18,290	*18,290	*24,190	19,560	*18,420	12,710	*14,360	9,360			*12,940	8,530	8,060
	-3.0 m	kg	*27,690	*27,690	*21,460	19,840	*16,490	12,890					*13,020	10,240	7,120
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 2.55 m	6.0 m	kg					*12,800	*12,800	*11,380	10,380			*10,980	8,080	8,770
	4.5 m	kg					*14,850	13,860	*12,350	10,050	*11,150	7,650	*11,070	7,310	9,250
	3.0 m	kg					*16,930	13,190	*13,450	9,700	*11,620	7,490	*10,870	6,940	9,470
	1.5 m	kg					*18,330	12,740	*14,340	9,420	*11,590	7,350	*10,800	6,870	9,450
	0.0 m	kg			*13,680	*13,680	*18,790	12,550	*14,770	9,260	*11,510	7,280	*11,210	7,100	9,180
	-1.5 m	kg			*23,740	19,350	*18,370	12,550	*14,520	9,240			*12,120	7,720	8,640
	-3.0 m	kg	*26,440	*26,440	*21,540	19,620	*16,910	12,720	*13,070	9,410			*12,290	9,020	7,770
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 3.35 m	6.0 m	kg					*13,540	*13,540	*10,380	*10,380	*9,890	7,950	*8,660	7,230	9,510
	4.5 m	kg			*17,850	*17,850	*15,540	13,480	*11,480	10,240	*10,380	7,780	*8,750	6,620	9,960
	3.0 m	kg			*20,610	20,270	*15,820	13,480	*12,730	9,850	*11,040	7,580	*9,060	6,310	10,160
	1.5 m	kg			*14,380	*14,380	*17,630	12,920	*13,840	9,510	*11,630	7,390	*9,650	6,230	10,140
	0.0 m	kg			*18,140	*18,140	*18,600	12,600	*14,560	9,290	*11,490	7,260	*10,060	6,390	9,890
	-1.5 m	kg	*13,490	*13,490	*24,950	19,180	*18,690	12,500	*14,710	9,190	*11,450	7,220	*10,800	6,840	9,390
	-3.0 m	kg	*22,600	*22,600	*23,300	19,360	*17,840	12,570	*14,040	9,250			*11,610	7,760	8,600
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 3.9 m	6.0 m	kg					*12,410	*12,410	*9,540	*9,540	*9,130	7,980	*6,990	6,610	10,050
	4.5 m	kg					*14,770	13,550	*12,000	9,830	*10,460	7,530	*7,310	5,790	10,660
	3.0 m	kg			*19,150	*19,150	*16,790	12,870	*13,230	9,440	*11,190	7,300	*7,760	5,710	10,640
	1.5 m	kg			*19,710	18,890	*18,060	12,450	*14,120	9,160	*11,370	7,130	*8,480	5,830	10,400
	0.0 m	kg			*25,000	18,790	*18,480	12,270	*14,500	9,010	*11,280	7,040	*9,610	6,190	9,930
	-1.5 m	kg	*13,320	*13,320	*20,360	18,910	*18,010	12,280	*14,180	9,010	*11,280	7,100	*10,890	6,920	9,190
	-3.0 m	kg	*29,500	*29,500	*21,440	19,240	*16,410	12,480	*12,690	9,190			*11,200	8,340	8,100
with 600 mm shoe 9,300 kg CWT Boom 7.0 m + Arm 4.8 m	6.0 m	kg					*13,000	*13,000	*9,370	*9,370	*7,980	7,980	*6,480	5,860	10,810
	4.5 m	kg			*17,420	*17,420	*15,300	12,970	*10,790	9,910	*9,520	7,820	*6,580	5,400	11,200
	3.0 m	kg			*21,560	19,680	*15,330	12,970	*12,190	9,430	*10,380	7,240	*7,250	5,060	11,370
	1.5 m	kg			*23,460	18,780	*17,040	12,370	*13,330	9,050	*11,110	7,000	*7,910	5,130	11,140
	0.0 m	kg			*24,790	18,410	*17,970	12,040	*14,030	8,810	*11,090	6,850	*8,660	5,390	10,700
	-1.5 m	kg	*13,300	*13,300	*18,540	18,380	*18,060	11,930	*14,160	8,720	*11,040	6,800	*9,510	5,910	10,020
	-3.0 m	kg	*25,430	*25,430	*22,870	18,590	*17,210	12,020	*13,480	8,790	*10,550	6,920	*10,480	6,880	9,030

- 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.



## STANDARD EQUIPMENT

### Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Step 2 and 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

### Electric / Electronic control system

Contronics  
– Advanced mode control system  
– Self-diagnostic system  
Machine status indication  
Engine speed sensing power control  
"Power Max" mode system  
Automatic idling system

One-touch power boost  
Safety stop/start function  
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 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  
Tool storage area  
Punched metal anti-slip plates  
Undercover (2.3 mm)

### Cab and interior

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  
– 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)

### Service

Spare parts

## ALTERNATIVE EQUIPMENT

### Engine

Alternator, 55 A / 80 A  
Block heater, 120 V / 240 V  
Fuel filler pump: 35 l/min,  
50 l/min with automatic shut-off

### Hydraulic system

Pilot-operated wrist control joysticks  
– Semi-long joysticks  
– Control joystick, with 3 switches each  
– Control joystick, with 5 switches each

### Superstructure

Counterweight, 8,700 kg / 9,300 kg

### Cab and interior

Seat:  
– Fabric seat  
– Fabric seat, with heater  
– Fabric seat, with heater and air suspension

### Track shoes

– 600/700/800/900 mm track shoes with triple grousers  
– 600 mm track shoe with double grouser

### Digging equipment:

Boom: 6.5 m monoblock, ME  
7.0 m monoblock  
Arm: 2.55/3.35/3.9/4.8 m

## OPTIONAL EQUIPMENT (Standard in certain markets)

### Engine

Oil bath pre-cleaner  
Diesel coolant heater  
Tropical cooling kit

### Electric

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

### Hydraulic system

Hose rupture valve: boom, arm  
Hydraulic piping  
– Hammer & shears:  
1 pump flow  
2 pump flow

Additional return filter  
Extra piping for slope & rotator  
1 switch control  
2 switch control  
Pedal control  
– Slope & rotator  
– Grapple  
– Oil leak (drain) line  
– Quick fit piping  
Volvo hydraulic quick-fit, S3 size  
Hydraulic oil, ISO VG 32  
Hydraulic oil, ISO VG 68  
Hydraulic oil, biodegradable 32  
Hydraulic oil, biodegradable 46  
Joystick control pattern changer  
Boom floating function  
Pump flow control for hammer & shears

### Superstructure

Undercover (heavy duty 4.5 mm)  
Service walk  
Cab entrance step  
Hydraulic removable counterweight

### Cab and interior

Air-conditioner, manual  
Heater & air-conditioner, automatic  
Falling object guard (FOG)  
Cab mounted falling object protective structures (FOPS)  
Rain shield, front  
Sun shield, front, roof, rear  
Sunlight protection, roof (steel)  
Safety screen for front window  
Lower wiper  
Anti-vandalism kit  
Specific key

### Digging equipment

Long last bushing

### Undercarriage

Full track guards  
Undercover (heavy duty 10 mm)  
Mechanically retractable track gauge

### Service

Hand lamp  
Tool kit:  
– Full scale  
– Daily maintenance

*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**  
Construction Equipment

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