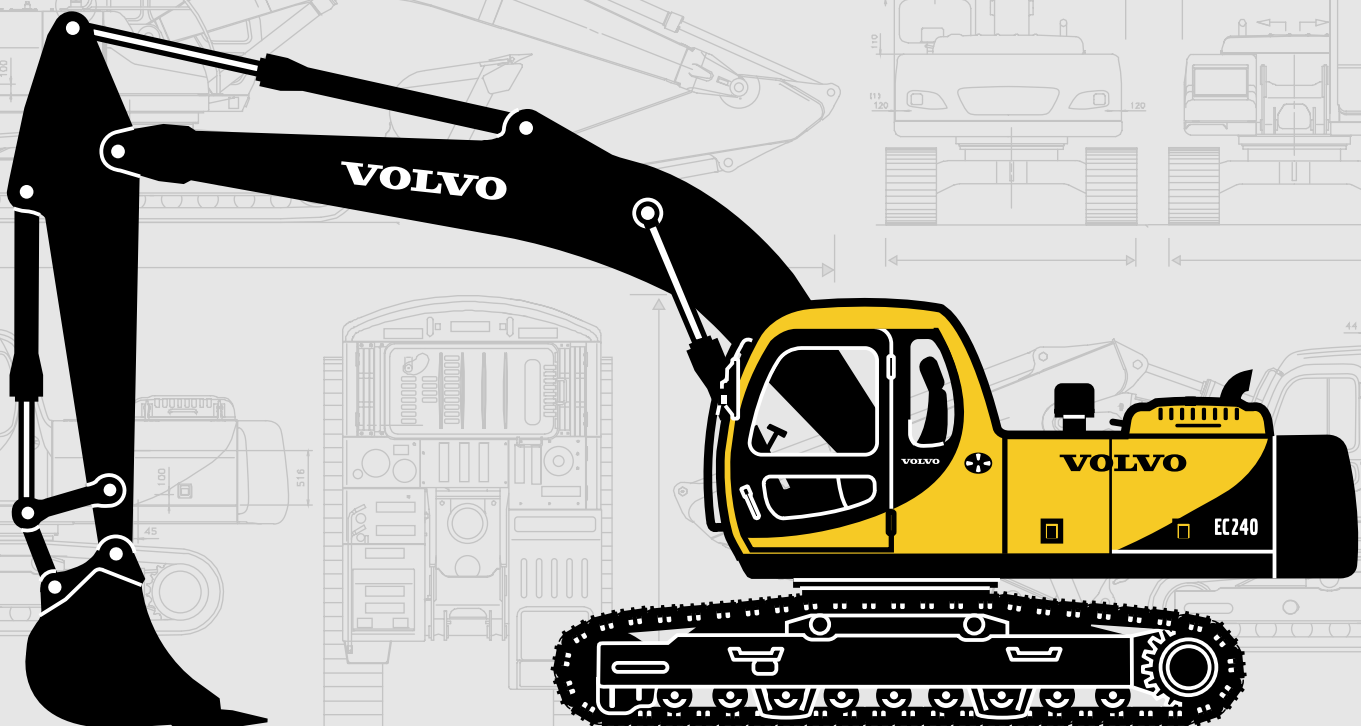


VOLVO EXCAVATOR

EC240

**LONG CRAWLER / NARROW LONG CRAWLER
MONOBLOC / 2-PIECE BOOM**



- Engine power, gross:
134 kW (180 hp)
- Operating weight:
 - LC: 23.5 ~ 24.9 t
 - NLC: 23.9 ~ 24.8 t
- Buckets (SAE):
1100 ~ 1450 l
- 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 digging equipment, produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Undercarriage
 - LC : Long undercarriage for good stability
 - NLC : Narrow width for easy transportation
- Auxiliary hydraulic valve as standard
- Prepared for a number of optional items

VOLVO



ENGINE

The engine is a low-emission, turbocharged, 4-stroke diesel engine with water cooling and direct injection 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	C8.3-C
Power output at	33 r/s (2000 rpm)
Net (ISO 9249/DIN 6271)	125 kW (170 ps / 168 hp)
Gross (SAE J1349).....	134 kW (182 ps / 180 hp)
Max. torque	750 N·m (76.5 kg·m)
	at 1500 rpm
No. of cylinders	6
Displacement	8.27 l
Bore	114 mm
Stroke	135 mm



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	350 l
Hydraulic system, total	320 l
Hydraulic tank	190 l
Engine oil	25.5 l
Engine coolant	26.5 l
Swing reduction unit	12 l
Travel reduction units	2 X 5.2 l



SWING SYSTEM

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

Max. swing speed	11.9 rpm
Max. swing torque	85 kN·m (8670 kg·m)



UNDERCARRIAGE

The undercarriage has an X-shaped frame.

The greased and sealed track chain is standard.

No. of track pads	2 X 51
Link pitch	190 mm
Shoe width, triple grouser	600/700/ 800/900 mm
Shoe width, rubber pad	600 mm
Shoe width, swamp	910 mm
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 motors.

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	209 kN (21.3 ton)
Max. travel speed (1st/2nd).....	3.2/5.5 km/h
Gradeability	35° (70 %)



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: gives priority to the boom operation for fast raising when loading or deep excavating.

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 during simultaneous operations.

Regeneration system: enhances the cylinder life cycle to prevent cavitation and provides 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 pump:

Type 2 X variable displacement axial piston pumps
Maximum flow 2 X 230 l/min

Pilot pump:

Type Gear pump
Maximum flow 20 l/min

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 (320/350 kg/cm²)
Travel circuit 34.3 MPa (350 kg/cm²)
Swing circuit 26.5 MPa (270 kg/cm²)
Pilot circuit 3.9 MPa (40 kg/cm²)

Hydraulic cylinders

Monobloc boom 2
bore X stroke \varnothing 135 mm X 1345 mm
2nd boom of 2-piece boom 1
bore X stroke \varnothing 160 mm X 1230 mm
Arm 1
bore X stroke \varnothing 140 mm X 1665 mm
Bucket 1
bore X stroke \varnothing 130 mm X 1120 mm
Bucket, extra short arm 1
bore X stroke \varnothing 135 mm X 1065 mm



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: Approved 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) 74 dB(A)



GROUND PRESSURE

- Long crawler machine with 6.0 m boom, 2.97 m arm, 1080 l (920 kg) bucket and 4350 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	23500 kg	46.1 kPa (0.47 kg/cm ²)	3190 mm
	700 mm	23780 kg	40.2 kPa (0.41 kg/cm ²)	3290 mm
	800 mm	24060 kg	35.3 kPa (0.36 kg/cm ²)	3390 mm
	900 mm	24340 kg	32.4 kPa (0.33 kg/cm ²)	3490 mm
Rubber pad	600 mm	24280 kg	47.1 kPa (0.48 kg/cm ²)	3190 mm
Swamp shoe	910 mm	24420 kg	31.4 kPa (0.32 kg/cm ²)	3500 mm

- Long crawler machine with 6.0 m boom, 2.97 m arm, 1080 l (920 kg) bucket and 4800 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	23950 kg	47.1 kPa (0.48 kg/cm ²)	3190 mm
	700 mm	24230 kg	41.2 kPa (0.42 kg/cm ²)	3290 mm
	800 mm	24510 kg	36.3 kPa (0.37 kg/cm ²)	3390 mm
	900 mm	24790 kg	33.4 kPa (0.34 kg/cm ²)	3490 mm
Rubber pad	600 mm	24730 kg	48.1 kPa (0.49 kg/cm ²)	3190 mm
Swamp shoe	910 mm	24870 kg	32.4 kPa (0.33 kg/cm ²)	3500 mm

- Narrow long crawler machine with 6.0 m boom, 2.97 m arm, 1080 l (920 kg) bucket and 4800 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	23850 kg	47.1 kPa (0.48 kg/cm ²)	2990 mm
	700 mm	24130 kg	41.2 kPa (0.42 kg/cm ²)	3090 mm
	800 mm	24410 kg	36.3 kPa (0.37 kg/cm ²)	3190 mm
	900 mm	24690 kg	33.4 kPa (0.34 kg/cm ²)	3290 mm
Rubber pad	600 mm	24630 kg	48.1 kPa (0.49 kg/cm ²)	2990 mm
Swamp shoe	910 mm	24770 kg	32.4 kPa (0.33 kg/cm ²)	3300 mm

BUCKET & ARM COMBINATION

● Volvo GP bucket (curved side) and 4350 kg / 4800 kg* counterweight.

Bucket		Direct fit - GP bucket			Quick fit - GP bucket	
Bucket capacity (SAE / CECE)		1100 / 990 l	1250 / 1120 l	1450 / 1300 l	1100 / 990 l	1250 / 1120 l
Cutting width		1200 mm	1300 mm	1500 mm	1200 mm	1300 mm
Weight		830 kg	900 kg	970 kg	800 kg	870 kg
No. of teeth		4	5	5	4	5
Arm options	2.0 m	◎/◎*	◎/◎*	□/○*	◎/◎*	○/◎*
	2.5 m	◎/◎*	○/◎*	□/□*	◎/◎*	○/○*
	2.97 m	◎/◎*	□/○*	□/□*	○/◎*	□/□*
	3.6 m	○/○*	□/□*	△/□*	□/○*	□/□*

◎ : Applicable for material density up to 2.0 t/m³

○ : Applicable for material density up to 1.8 t/m³

□ : Applicable for material density up to 1.5 t/m³

△ : Applicable for material density up to 1.2 t/m³

BUCKET & ARM COMBINATION

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 bucket volume for direct fit:

Long crawler machine with counterweight 4350 kg / 4800 kg *

Description	unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
GP bucket 1.5 t/m ³	l	1875 / 1975 *	1775 / 1850 *	1650 / 1725 *	1525 / 1600 *
GP bucket 1.8 t/m ³	l	1650 / 1725 *	1550 / 1625 *	1425 / 1500 *	1325 / 1400 *
RB bucket 1.8 t/m ³	l	1525 / 1600 *	1425 / 1500 *	1325 / 1375 *	1225 / 1300 *
RB bucket 2.0 t/m ³	l	1400 / 1475 *	1325 / 1400 *	1225 / 1275 *	1125 / 1200 *

● Max. permitted bucket volume for quick fit:

Long crawler machine with counterweight 4350 kg / 4800 kg

Description	unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
GP bucket 1.5 t/m ³	l	1775 / 1875 *	1675 / 1750 *	1525 / 1625 *	1425 / 1500 *
GP bucket 1.8 t/m ³	l	1550 / 1650 *	1450 / 1525 *	1350 / 1425 *	1225 / 1300 *
RB bucket 1.8 t/m ³	l	1425 / 1525 *	1350 / 1425 *	1250 / 1300 *	1150 / 1200 *
RB bucket 2.0 t/m ³	l	1325 / 1400 *	1250 / 1300 *	1150 / 1200 *	1050 / 1125 *

● Max. permitted bucket volume for direct fit:

Narrow long crawler machine with counterweight 4800 kg

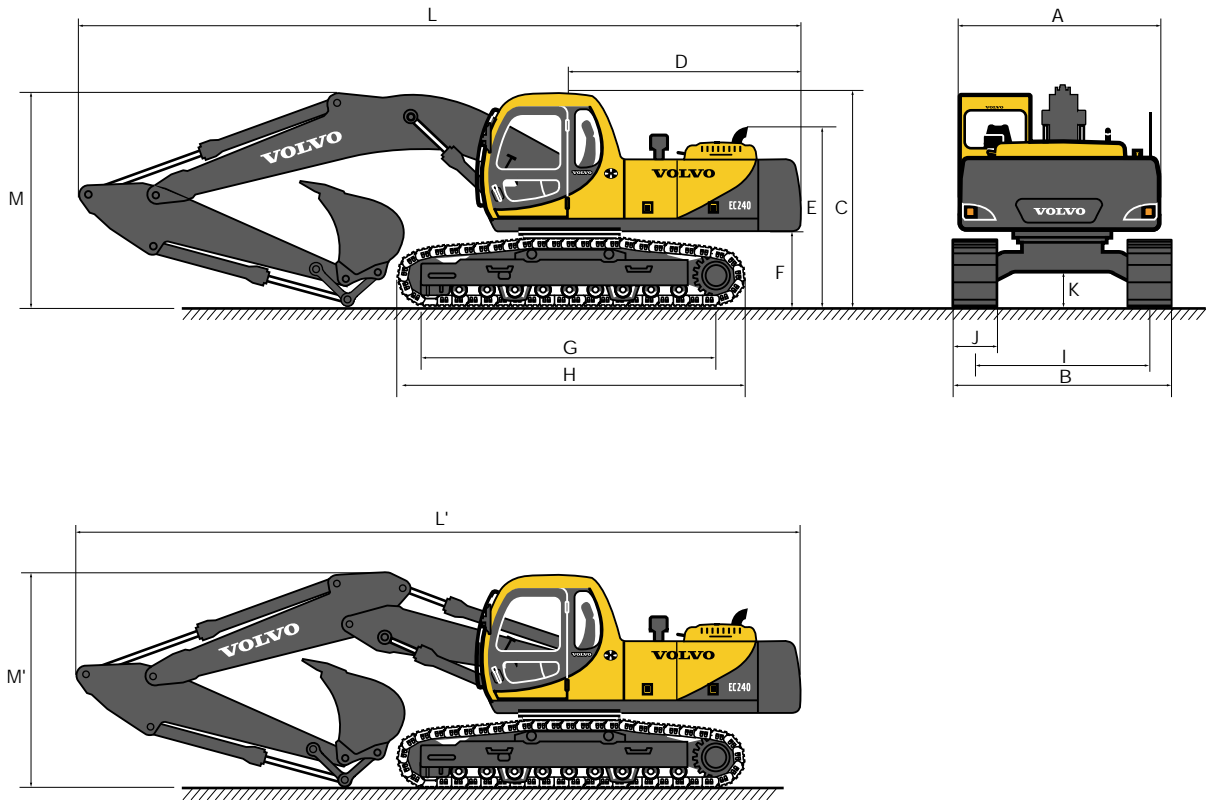
Description	unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
GP bucket 1.5 t/m ³	l	1800	1700	1575	1450
GP bucket 1.8 t/m ³	l	1575	1475	1375	1275
RB bucket 1.8 t/m ³	l	1450	1375	1275	1175
RB bucket 2.0 t/m ³	l	1350	1275	1175	1100

● Max. permitted bucket volume for quick fit:

Narrow long crawler machine with counterweight 4800 kg

Description	unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
GP bucket 1.5 t/m ³	l	1700	1600	1475	1350
GP bucket 1.8 t/m ³	l	1500	1400	1275	1175
RB bucket 1.8 t/m ³	l	1375	1275	1175	1100
RB bucket 2.0 t/m ³	l	1275	1200	1100	1025

DIMENSIONS



Description	Unit	2.0 m Arm		2.5 m Arm		2.97 m Arm		3.6 m Arm	
		LC	NLC	LC	NLC	LC	NLC	LC	NLC
A. Overall width of upper structure	mm	2840	2840	2840	2840	2840	2840	2840	2840
B. Overall width	mm	3190	2990	3190	2990	3190	2990	3190	2990
C. Overall height of cab	mm	2990	2990	2990	2990	2990	2990	2990	2990
D. Tail swing radius	mm	3000	3000	3000	3000	3000	3000	3000	3000
E. Overall height of exhaust pipe	mm	2600	2600	2600	2600	2600	2600	2600	2600
F. Counterweight clearance*	mm	1080	1080	1080	1080	1080	1080	1080	1080
G. Tumbler length	mm	3850	3850	3850	3850	3850	3850	3850	3850
H. Track length	mm	4650	4650	4650	4650	4650	4650	4650	4650
I. Track gauge	mm	2590	2390	2590	2390	2590	2390	2590	2390
J. Shoe width	mm	600	600	600	600	600	600	600	600
K. Min. ground clearance*	mm	480	480	480	480	480	480	480	480
L. Overall length	mm	10295	10295	10250	10250	10170	10170	10245	10245
L'. Overall length	mm	10230	10230	10200	10200	10170	10170	10180	10180
M. Overall height of boom	mm	3350	3350	3220	3220	3040	3040	3230	3230
M'. Overall height of boom	mm	3280	3280	3240	3240	3160	3160	3380	3380

LC: Long crawler

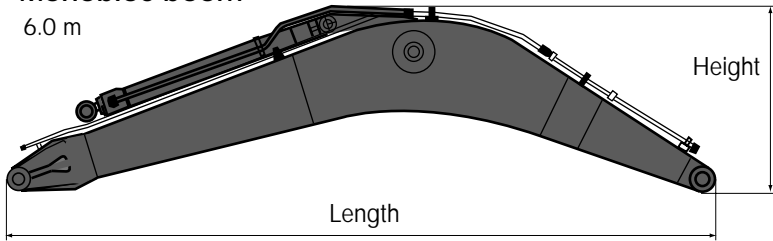
NLC: Narrow long crawler

* Without shoe grouser

DIMENSIONS

● Monobloc boom

6.0 m

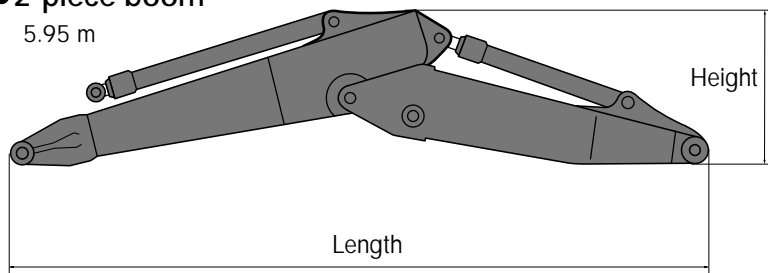


Description	6.0 m
Length	6210 mm
Height	1630 mm
Width	730 mm
Weight *	1980 kg

* Includes cylinder, piping and pin

● 2-piece boom

5.95 m

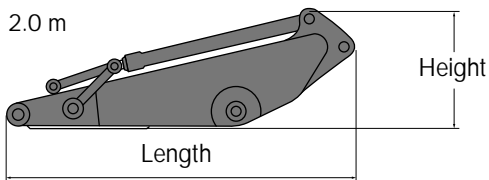


Description	5.95 m
Length	6160 mm
Height	1510 mm
Width	730 mm
Weight *	2410 kg

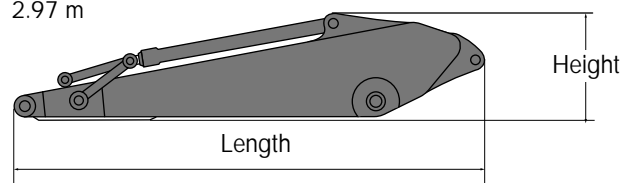
* Includes cylinder, piping and pins

● Arm

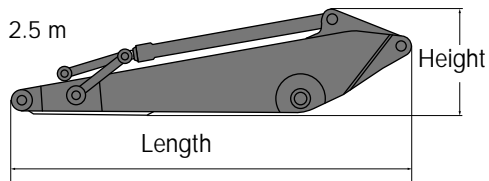
2.0 m



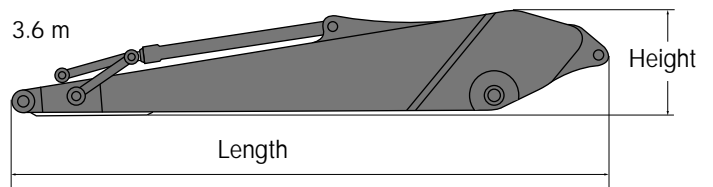
2.97 m



2.5 m



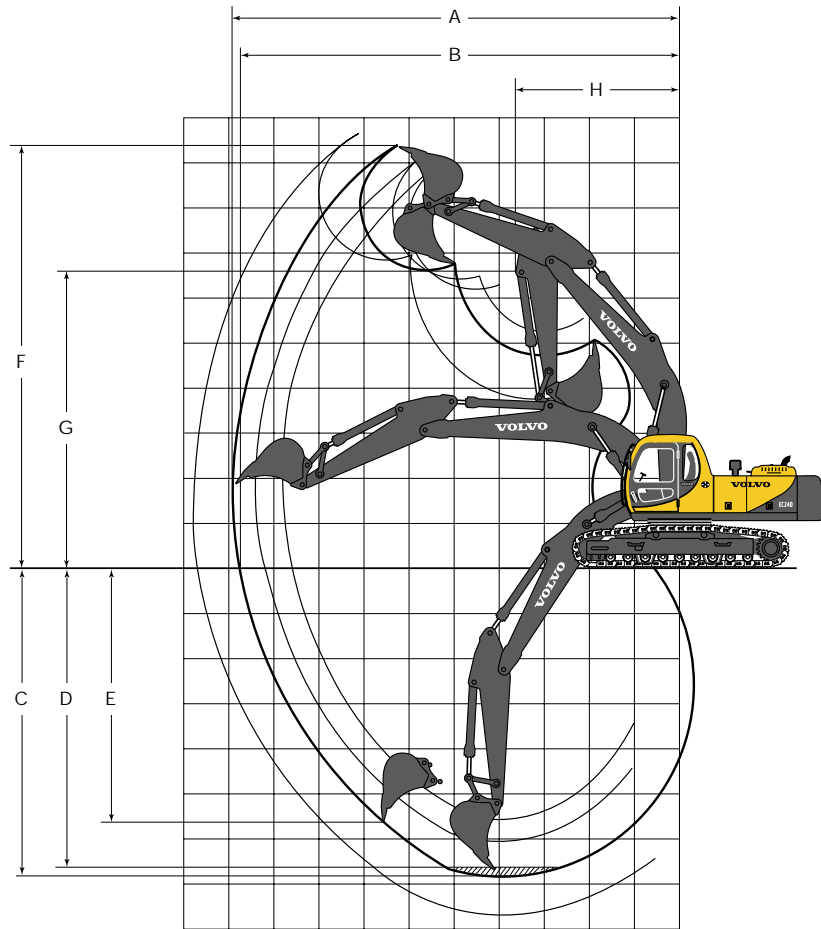
3.6 m



Description	2.0 m	2.5 m	2.97 m	3.6 m
Length	3030 mm	3590 mm	4060 mm	4730 mm
Height	1010 mm	930 mm	920 mm	920 mm
Width	480 mm	480 mm	480 mm	480 mm
Weight *	1010 kg	1110 kg	1180 kg	1250 kg

* Includes cylinder, linkage and pins

WORKING RANGES

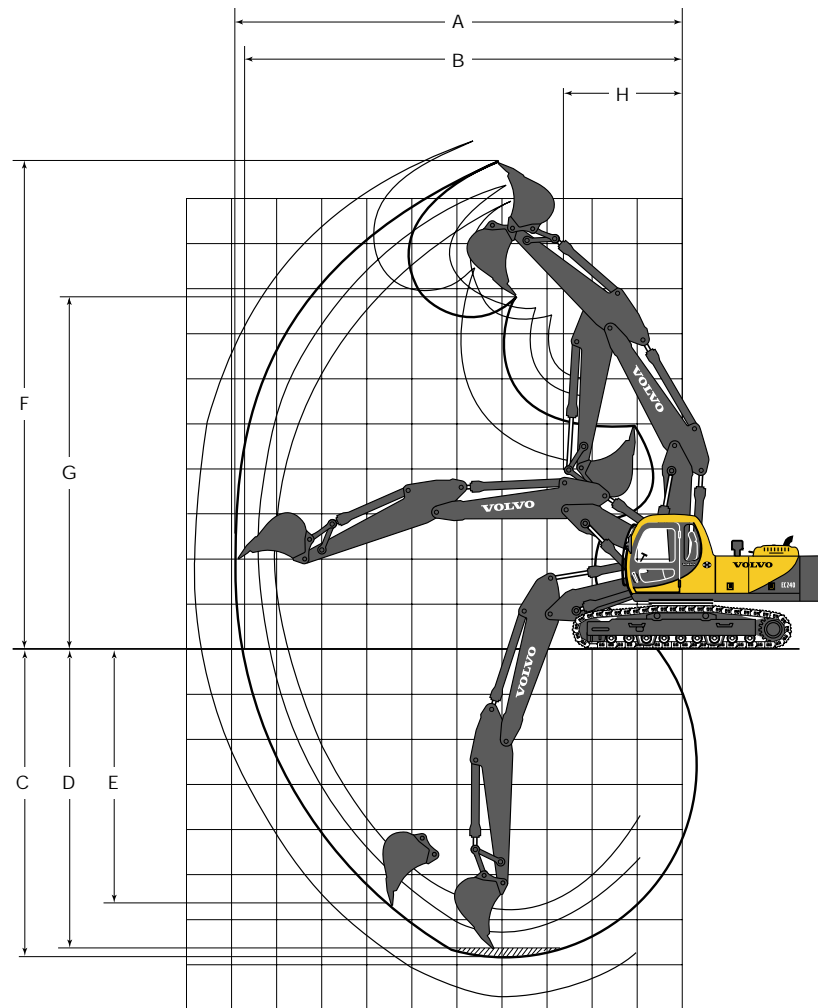


● 6.0 m monobloc boom with direct fit bucket

Description	unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
A. Max. digging reach	mm	9550	9880	10260	10730
B. Max. digging reach on ground	mm	9360	9690	10080	10560
C. Max. digging depth	mm	6060	6500	6980	7600
D. Max. digging depth (8' level)	mm	5780	6280	6740	7380
E. Max. vertical wall digging depth	mm	4960	5730	5970	6270
F. Max. cutting height	mm	9660	9630	9730	9670
G. Max. dumping height	mm	6720	6670	6800	6790
H. Min. front swing radius	mm	4030	3860	3830	3850

Digging forces with direct fit bucket:		unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
Bucket tip radius		mm	1540	1540	1540	1540
Breakout force-bucket (Normal / Power boost)	SAE	kN (ton)	148.1 / 161.9 (15.1 / 16.5)	138.3 / 151.1 (14.1 / 15.4)	138.3 / 151.1 (14.1 / 15.4)	138.3 / 151.1 (14.1 / 15.4)
	ISO	kN (ton)	171.7 / 187.4 (17.5 / 19.1)	158.9 / 173.6 (16.2 / 17.7)	158.9 / 173.6 (16.2 / 17.7)	158.9 / 173.6 (16.2 / 17.7)
Tearout force-arm (Normal / Power boost)	SAE	kN (ton)	149.1 / 162.8 (15.2 / 16.6)	125.6 / 137.3 (12.8 / 14.0)	108.9 / 118.7 (11.1 / 12.1)	97.1 / 105.9 (9.9 / 10.8)
	ISO	kN (ton)	156.0 / 170.7 (15.9 / 17.4)	130.5 / 142.2 (13.3 / 14.5)	111.8 / 122.6 (11.4 / 12.5)	100.1 / 109.9 (10.2 / 11.2)
Rotation angle, bucket		°	167°	182°	182°	182°

WORKING RANGES



● 5.95 m 2-piece boom with direct fit bucket



Description	unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
A. Max. digging reach	mm	9540	9890	10290	10780
B. Max. digging reach on ground	mm	9340	9710	10110	10610
C. Max. digging depth	mm	5600	6040	6480	7050
D. Max. digging depth (8' level)	mm	5490	5930	6380	6950
E. Max. vertical wall digging depth	mm	4500	5110	5585	6015
F. Max. cutting height	mm	10910	11090	11350	11600
G. Max. dumping height	mm	7860	8010	8280	8530
H. Min. front swing radius	mm	2980	2760	2540	2700

Digging forces with direct fit bucket:		unit	2.0 m Arm	2.5 m Arm	2.97 m Arm	3.6 m Arm
Bucket tip radius		mm	1540	1540	1540	1540
Breakout force-bucket (Normal / Power boost)	SAE	kN (ton)	148.1 / 161.9 (15.1 / 16.5)	138.3 / 151.1 (14.1 / 15.4)	138.3 / 151.1 (14.1 / 15.4)	138.3 / 151.1 (14.1 / 15.4)
Breakout force-bucket (Normal / Power boost)	ISO	kN (ton)	171.7 / 187.4 (17.5 / 19.1)	158.9 / 173.6 (16.2 / 17.7)	158.9 / 173.6 (16.2 / 17.7)	158.9 / 173.6 (16.2 / 17.7)
Tearout force-arm (Normal / Power boost)	SAE	kN (ton)	149.1 / 162.8 (15.2 / 16.6)	125.6 / 137.3 (12.8 / 14.0)	108.9 / 118.7 (11.1 / 12.1)	97.1 / 105.9 (9.9 / 10.8)
Tearout force-arm (Normal / Power boost)	ISO	kN (ton)	156.0 / 170.7 (15.9 / 17.4)	130.5 / 142.2 (13.3 / 14.5)	111.8 / 122.6 (11.4 / 12.5)	100.1 / 109.9 (10.2 / 11.2)
Rotation angle, bucket		°	167°	182°	182°	182°

LIFTING CAPACITY (At the arm end 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.

EC240 long crawler (Shoe 600 mm, Counterweight 4350 kg)













 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		Max.reach		Max. mm
		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
Monobloc boom 6.0 m + Arm 2.0 m	6 m					6290	*7120			5040	*7180	6852
	4.5 m			9410	*9690	6080	*7840	4290	6430	4230	6340	7566
	3 m					5800	*8920	4200	6330	3850	5800	7932
	1.5 m					5560	8660	4090	6200	3730	5640	7999
	0 m					5440	8510	4020	6130	3840	5840	7775
	-1.5 m			8230	*13660	5420	8500			4240	6480	7234
	-3 m	*16260	*16260	8380	*12280	5540	8640			5230	8070	6290
	-4.5 m											
Monobloc boom 6.0 m + Arm 2.5 m	6 m					6390	*6500			4680	*6540	7237
	4.5 m			*8780	*8780	6160	*7310	4350	6500	3970	5940	7915
	3 m			8880	*11350	5850	*8450	4220	6350	3630	5460	8265
	1.5 m			8350	*13330	5580	8690	4080	6200	3510	5310	8330
	0 m			8150	13600	5410	8490	3990	6100	3580	5450	8116
	-1.5 m	*9510	*9510	8130	13580	5360	8430	3970	6090	3910	5980	7599
	-3 m	16580	*17740	8240	*12860	5430	8510			4690	7230	6708
	-4.5 m	*14220	*14220	8530	*10380					6820	*8640	5251
Monobloc boom 6.0 m + Arm 2.97 m	6 m					*5900	*5900	4440	*5890	4270	*5260	7672
	4.5 m			*7880	*7880	6200	*6750	4360	*6240	3670	*5280	8314
	3 m			9030	*10460	5890	*7950	4210	6350	3360	5070	8648
	1.5 m			8430	*12710	5590	8700	4060	6180	3250	4930	8710
	0 m			8130	13600	5380	8470	3940	6060	3300	5040	8505
	-1.5 m	*9680	*9680	8050	13500	5300	8370	3890	6000	3560	5470	8014
	-3 m	*16130	*16130	8120	*13260	5320	8400			4180	6450	7177
	-4.5 m	*15840	*15840	8340	*11350					5720	*8440	5841
Monobloc boom 6.0 m + Arm 3.6 m	6 m							4570	*5310	3900	*4460	8204
	4.5 m					*6040	*6040	4450	*5710	3400	*4510	8807
	3 m	*14860	*14860	*9270	*9270	6010	*7300	4280	*6360	3130	4710	9122
	1.5 m			8580	*11770	5660	*8600	4090	6230	3010	4580	9181
	0 m	*6440	*6440	8150	*13360	5400	8500	3950	6070	3050	4650	8987
	-1.5 m	*9830	*9830	7980	13430	5260	8340	3860	5980	3240	4980	8525
	-3 m	*14560	*14560	7990	13430	5240	8320	3870	5980	3710	5720	7743
	-4.5 m	16350	*17620	8150	*12310	5350	8440			4780	7450	6528

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

LIFTING CAPACITY (At the arm end 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.

EC240 long crawler (Shoe 600 mm, Counterweight 4800 kg)













 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		Max.reach		Max. mm
		 kg	 kg	 kg	 kg	 kg	 kg	 kg	 kg	 kg	 kg	
Monobloc boom 6.0 m + Arm 2.0 m	6 m					6560	*7120			5270	*7180	6852
	4.5 m			*9690	*9690	6350	*7840	4500	6690	4430	6590	7566
	3 m					6070	*8920	4400	6580	4040	6030	7932
	1.5 m					5830	9010	4290	6460	3920	5880	7999
	0 m					5700	8860	4220	6390	4030	6080	7775
	-1.5 m			8630	*13660	5690	8840			4450	6750	7234
	-3 m	*16260	*16260	8770	*12280	5810	8980			5480	8400	6290
	-4.5 m											
Monobloc boom 6.0 m + Arm 2.5 m	6 m					*6500	*6500			4890	*6540	7237
	4.5 m			*8780	*8780	6420	*7310	4550	*6710	4160	6180	7915
	3 m			9280	*11350	6120	*8450	4420	6610	3810	5680	8265
	1.5 m			8750	*13330	5850	9040	4280	6460	3680	5530	8330
	0 m			8540	*14070	5680	8840	4190	6360	3770	5680	8116
	-1.5 m	*9510	*9510	8530	*13890	5630	8780	4180	6340	4110	6230	7599
	-3 m	17340	*17740	8640	*12860	5700	8860			4920	7530	6708
	-4.5 m	*14220	*14220	8930	*10380				7140	*8640	5251	
Monobloc boom 6.0 m + Arm 2.97 m	6 m					*5900	*5900	4640	*5890	4460	*5260	7672
	4.5 m			*7880	*7880	6470	*6750	4560	*6240	3840	*5280	8314
	3 m			9430	*10460	6150	*7950	4410	6610	3530	5280	8648
	1.5 m			8830	*12710	5860	9050	4260	6440	3410	5140	8710
	0 m			8530	*13840	5650	8820	4140	6310	3480	5260	8505
	-1.5 m	*9680	*9680	8450	*13980	5560	8720	4090	6260	3750	5700	8014
	-3 m	*16130	*16130	8520	*13260	5590	8750			4390	6720	7177
	-4.5 m	*15840	*15840	8740	*11350				5990	*8440	5841	
Monobloc boom 6.0 m + Arm 3.6 m	6 m							4770	*5310	4080	*4460	8204
	4.5 m					*6040	*6040	4650	*5710	3560	*4510	8807
	3 m	*14860	*14860	*9270	*9270	6270	*7300	4480	*6360	3290	*4720	9122
	1.5 m			8980	*11770	5930	*8600	4300	6490	3170	4770	9181
	0 m	*6440	*6440	8550	*13360	5670	8850	4150	6320	3210	4850	8987
	-1.5 m	*9830	*9830	8380	*13930	5530	8690	4060	6230	3420	5190	8525
	-3 m	*14560	*14560	8380	*13620	5510	8660	4070	6230	3900	5960	7743
	-4.5 m	17120	*17620	8540	*12310	5620	8790		5020	7760	6528	

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

LIFTING CAPACITY (At the arm end 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.

EC240 long crawler (Shoe 600 mm, Counterweight 4800 kg)



 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		Max.reach		Max. mm
		 kg	 kg	 kg	 kg	 kg	 kg	 kg	 kg	 kg	 kg	
2-piece boom 5.95 m + Arm 2.0 m	6 m	*9430	*9430	10400	*10730	6530	*9040			5220	7840	6838
	4.5 m			9780	*12200	6300	*9500	4440	6660	4380	6580	7553
	3 m					6010	9260	4340	6560	3990	6020	7920
	1.5 m					5760	8980	4230	6430	3870	5870	7987
	0 m					5620	8830	4170	6370	3990	6070	7763
	-1.5 m			8530	*11000	5620	*8720			4420	*6430	7221
	-3 m											
	-4.5 m											
2-piece boom 5.95 m + Arm 2.5 m	6 m			*9190	*9190	6630	*8560			4820	*6870	7251
	4.5 m			9990	*11520	6390	*9120	4500	6740	4100	6140	7928
	3 m			9210	*13250	6070	9340	4360	6590	3740	5640	8278
	1.5 m			8640	*14030	5780	9010	4220	6430	3620	5490	8342
	0 m			8430	*13430	5600	8810	4130	6330	3710	5650	8128
	-1.5 m	*9330	*9330	8420	*11850	5550	8760	4130	6330	4050	6210	7612
	-3 m			8560	*9230	5650	*7100			4870	*5700	6724
	-4.5 m											
2-piece boom 5.95 m + Arm 2.97 m	6 m			*7250	*7250	6700	*7540	4600	*5920	4380	*5130	7703
	4.5 m	*15400	*15400	10170	*10560	6450	*8700	4520	6770	3770	*5100	8343
	3 m			9380	*12670	6110	9390	4360	6590	3460	5230	8675
	1.5 m			8730	*13850	5790	9030	4200	6420	3350	5090	8737
	0 m			8410	*13720	5570	8790	4080	6290	3410	5210	8533
	-1.5 m	*9510	*9510	8340	*12490	5490	8690	4040	6240	3690	5660	8044
	-3 m			8430	*10220	5530	*7850			4330	*5790	7210
	-4.5 m											
2-piece boom 5.95 m + Arm 3.6 m	6 m					*6240	*6240	4740	*5750	4000	*4350	8256
	4.5 m	*6970	*6970	*7470	*7470	6620	*7390	4620	*6740	3480	*4360	8855
	3 m			9680	*11840	6240	*9070	4440	6680	3210	*4530	9168
	1.5 m			8900	*13420	5870	9130	4240	6470	3100	4710	9226
	0 m	*6260	*6260	8440	*13850	5590	8820	4090	6300	3130	4800	9034
	-1.5 m	*9680	*9680	8260	*13120	5450	8660	4000	6210	3340	5140	8574
	-3 m	*14530	*14530	8290	*11330	5440	*8630	4020	6230	3830	*5880	7798
	-4.5 m			*8240	*8240	5580	*6110			5260	*5680	6267

- Notes :
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LIFTING CAPACITY (At the arm end 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.

EC240 narrow long crawler (Shoe 600 mm, Counterweight 4800 kg)



 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		Max.reach		Max. mm
		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
Monobloc boom 6.0 m + Arm 2.0 m	6 m					6040	*7120			4850	*7180	6852
	4.5 m			8930	*9690	5830	*7840	4130	6670	4070	6570	7566
	3 m					5550	*8920	4040	6560	3710	6010	7932
	1.5 m					5320	8980	3930	6440	3590	5860	7999
	0 m					5200	8830	3860	6370	3690	6060	7775
	-1.5 m			7800	*13660	5180	8810			4070	6730	7234
	-3 m	15570	*16260	7940	*12280	5300	8950			5010	8370	6290
Monobloc boom 6.0 m + Arm 2.5 m	6 m					6130	*6500			4500	*6540	7237
	4.5 m			*8780	*8780	5900	*7310	4180	*6710	3830	6160	7915
	3 m			8420	*11350	5600	*8450	4050	6580	3490	5660	8265
	1.5 m			7910	*13330	5340	9000	3920	6430	3370	5510	8330
	0 m			7710	*14070	5170	8810	3830	6330	3440	5660	8116
	-1.5 m	*9510	*9510	7690	*13890	5120	8750	3820	6320	3750	6210	7599
	-3 m	15270	*17740	7800	*12860	5190	8830			4490	7500	6708
Monobloc boom 6.0 m + Arm 2.97 m	6 m					*5900	*5900	4270	*5890	4110	*5260	7672
	4.5 m			*7880	*7880	5940	*6750	4190	*6240	3530	*5280	8314
	3 m			8570	*10460	5640	*7950	4050	6580	3230	5260	8648
	1.5 m			7980	*12710	5340	9020	3900	6410	3120	5120	8710
	0 m			7700	*13840	5140	8790	3780	6290	3170	5240	8505
	-1.5 m	*9680	*9680	7620	*13980	5060	8690	3730	6240	3420	5680	8014
	-3 m	15050	*16130	7690	*13260	5080	8720			4010	6700	7177
Monobloc boom 6.0 m + Arm 3.6 m	6 m							4400	*5310	3760	*4460	8204
	4.5 m					*6040	*6040	4280	*5710	3270	*4510	8807
	3 m	*14860	*14860	8830	*9270	5750	*7300	4110	*6360	3010	*4720	9122
	1.5 m			8130	*11770	5410	*8600	3930	6460	2900	4750	9181
	0 m	*6440	*6440	7710	*13360	5160	8810	3790	6300	2930	4830	8987
	-1.5 m	*9830	*9830	7550	13920	5020	8660	3700	6210	3120	5170	8525
	-3 m	*14560	*14560	7550	*13620	5000	8630	3710	6210	3560	5940	7743
-4.5 m	15050	*17620	7710	*12310	5110	8760			4570	7730	6528	

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LIFTING CAPACITY (At the arm end 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.

EC240 narrow long crawler (Shoe 600 mm, Counterweight 4800 kg)

 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		Max.reach		Max. mm
		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
2-piece boom 5.95 m + Arm 2.0 m	6 m	*9430	*9430	9500	*10230	5990	*9040			4790	7810	6838
	4.5 m			8890	*10730	5780	*9500	4060	6640	4010	6560	7553
	3 m				*12200	5480	9230	3970	6530	3650	6000	7920
	1.5 m					5240	8950	3860	6410	3530	5840	7987
	0 m					5110	8800	3800	6340	3640	6050	7763
	-1.5 m			7690	*11000	5110	*8720			4030	*6430	7221
	-3 m											
	-4.5 m											
2-piece boom 5.95 m + Arm 2.5 m	6 m			*9190	*9190	6100	*8560			4430	*6870	7251
	4.5 m			9100	*11520	5860	*9120	4130	6710	3750	6120	7928
	3 m			8350	*13250	5540	9310	3990	6570	3420	5620	8278
	1.5 m			7790	*14030	5260	8980	3850	6410	3300	5470	8342
	0 m			7580	*13430	5090	8780	3760	6310	3380	5630	8128
	-1.5 m	*9330	*9330	7580	*11850	5040	8730	3760	6310	3690	6180	7612
	-3 m			7720	*9230	5130	*7100			4440	*5700	6724
	-4.5 m											
2-piece boom 5.95 m + Arm 2.97 m	6 m			*7250	*7250	6160	*7540	4230	*5920	4020	*5130	7703
	4.5 m	*15400	*15400	9270	*10560	5910	*8700	4140	6740	3450	*5100	8343
	3 m			8510	*12670	5580	9360	3990	6570	3160	5210	8675
	1.5 m			7880	*13850	5270	9000	3830	6390	3050	5070	8737
	0 m			7570	*13720	5060	8760	3710	6260	3100	5190	8533
	-1.5 m	*9510	*9510	7500	*12490	4970	8660	3670	6220	3350	5640	8044
	-3 m			7590	*10220	5010	*7850			3940	*5790	7210
	-4.5 m											
2-piece boom 5.95 m + Arm 3.6 m	6 m					*6240	*6240	4370	*5750	3670	*4350	8256
	4.5 m	*6970	*6970	*7470	*7470	6080	*7390	4250	*6740	3190	*4360	8855
	3 m			8800	*11840	5710	*9070	4070	6660	2930	*4530	9168
	1.5 m			8040	*13420	5350	9100	3870	6450	2820	4700	9226
	0 m	*6260	*6260	7590	*13850	5080	8790	3720	6280	2850	4780	9034
	-1.5 m	*9680	*9680	7420	*13120	4940	8620	3640	6180	3040	5120	8574
	-3 m	*14530	*14530	7440	*11330	4930	8610	3650	6200	3480	5880	7798
	-4.5 m			7630	*8240	5060	*6110			4780	*5680	6267

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STANDARD EQUIPMENT

Engine

Low-emission engine with air heater, complying with EPA (Environment Protection Agency, USA) emission standards
2-stage air filter with indicator
Electric engine shut-off
Fuel filter and water separator
Air pre-cleaner

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 2
Batteries, 2 X 12V/200Ah
Start motor, 24V/7.5kW

Hydraulic system

Automatic sensing work mode
- Summation system
- Boom priority
- Arm priority
- Swing priority
Boom and arm flow regeneration
Swing anti-rebound valve
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

Cab and interior

Hydraulic dampening cab mounts
Adjustable operator seat and control console
Flexible antenna
Hydraulic safety lock lever
Cab, all-weather sound suppressed, includes :

- Ashtray
- Cigar lighter
- Door locks
- Floor mat
- Horn
- Large storage box
- Pull-up type front window
- Removable lower windshield
- Seat belt
- Safety glass
- Windshield wiper with intermittent feature
Master ignition key

Undercarriage

Hydraulic track adjusters
Greased and sealed track chain
Track guards

ALTERNATIVE EQUIPMENT

Engine

Alternator, 50A / 70A
Fuel filler pump: 35 lpm / 50 lpm / 50 lpm, with automatic shut-off

Hydraulic system

Pilot-operated wrist control joysticks
- Semi-long joysticks
- Jysticks, with 3 switches ea.
- Joysticks, with 5 switches ea.

Cab and interior

Leather 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 rubber pads
- 910 mm swamp shoes

Superstructure

Counterweight, 4350 kg / 4800 kg

Digging equipment

Boom: 6.0 m monobloc
5.95 m 2-piece
Arm: 2.0 / 2.5 / 2.97 / 3.6 m

Undercarriage

LC (Long crawler)
NLC (Narrow long crawler)

OPTIONAL EQUIPMENT (Standard in certain markets)

Engine

Block and oil pan heater: 120V, 240V
Fuel warmer
Tropical kit

Electronic control system

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

Hydraulic system

Hose rupture protection valve: boom, arm
Hydraulic piping
- Hammer & shear:
1 pump flow / 2 pump flow
Additional return filter
Extra piping for slope & rotator
- Slope & rotator
- Grapple
- Oil leak line
Volvo hydraulic quick fit, S1/S2 sizes
Hydraulic oil ISO, VG 32
Hydraulic oil ISO, VG 68

Superstructure

Undercover (heavy duty)
Low noise kit

Cab and interior

Air-conditioner
Heater
Falling object guard (FOG)
Cab mounted falling object protective structures (FOPS)
Rain shield, front
Sun shield, front
Clear tinted roof hatch
Stereo cassette radio (AM/FM)
Safety mesh for front window

Anti-vandalism kit
Sliding rear window
Specific key

Undercarriage

Full track guards
Undercover (heavy duty)

Service

Hand lamp
Spare parts
Tool kit

All products are not available on all markets. 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 Group

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