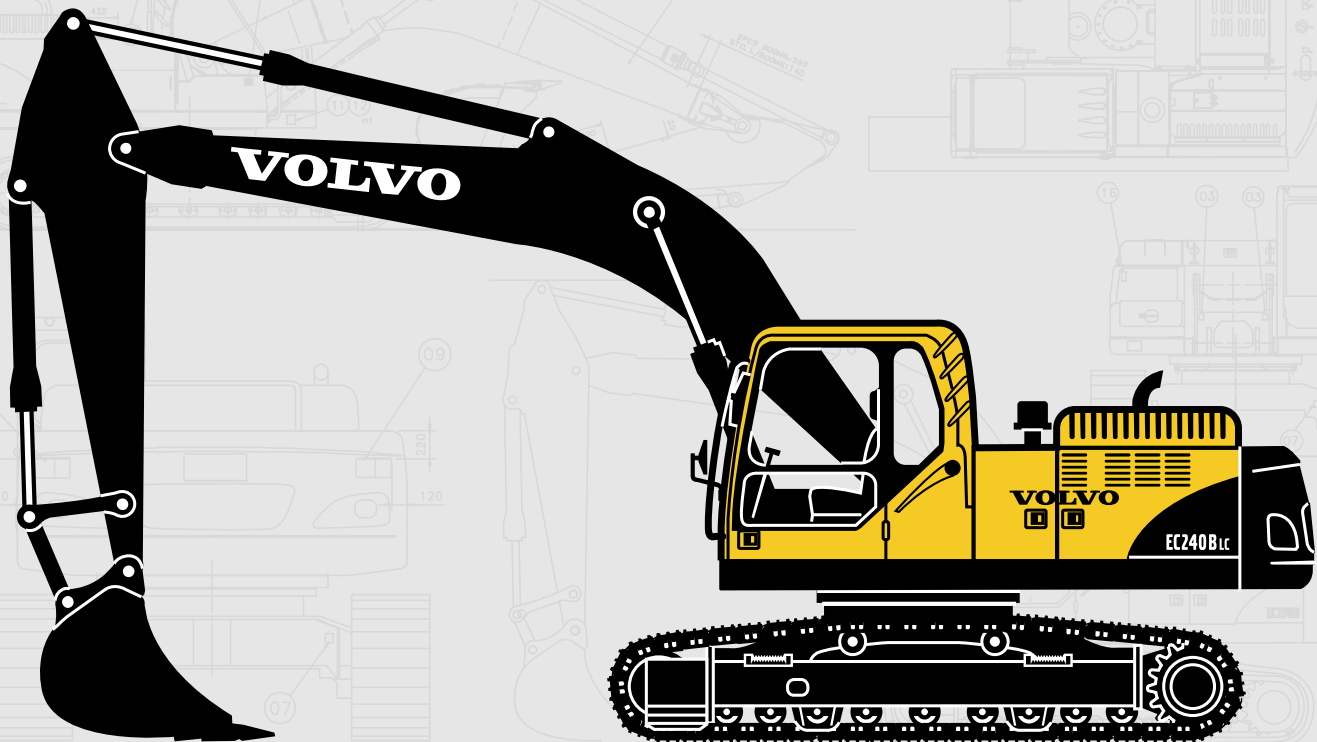


VOLVO EXCAVATOR

EC240B LC EC240B NLC

MONOBLOCK/2-PIECE BOOM



- Engine power, gross:
134 kW (180 hp)
- Operating weight:
LC: 24,9 ~ 25,8 t
NLC: 24,8 ~ 25,7 t
- Buckets (SAE):
1 050 ~ 1 975 l
- Turbocharged VOLVO diesel engine with direct injection and charged air cooler meets EU Step 2 requirements
- 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
- Strong digging equipment, produced by robotic welding
- High lifting, breakout and tearout forces for tough digging conditions
- Undercarriage
 - LC: Long undercarriage for excellent stability
 - NLC: Narrow width for easier transportation
- 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 a charged air cooler that easily meets EU Step 2 requirements.

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 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 levels.

Low-Emission Engine:

Make	VOLVO
Model	D7D EEE2
Power output at	33 r/s (2 000 rpm)
Net (ISO 9249/ DIN 6271)	125 kW (170 ps / 168 hp)
Gross (SAE J1995)	134 kW (182 ps / 180 hp)
Max. torque	735 N·m at 1 400 rpm
No. of cylinders	6
Displacement	7,1 l
Bore	108 mm
Stroke	130 mm



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



UNDERCARRIAGE

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

LC

No. of track shoes	2 x 51
Link pitch	190 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
No. of bottom rollers	2 x 9
No. of top rollers	2 x 2

NLC

No. of track shoes	2 x 49
Link pitch	190 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
No. of bottom rollers	2 x 9
No. of top rollers	2 x 2



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. tractive effort	209 kN
Max. travel speed	3,2 / 5,5 km/h
Gradeability	35° (70%)



SLEW SYSTEM

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

Max. slew speed	11,4 rpm
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SERVICE REFILL CAPACITIES

Fuel tank	380 l
Hydraulic system, total	320 l
Hydraulic tank	190 l
Engine oil	32 l
Engine coolant	44 l
Slew reduction unit	12 l
Travel reduction unit	2 x 5,2 l



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 slew priority along with boom and arm regeneration provide 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 excavation.

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

Slew priority: Gives priority to slew 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.

Power Max: All function speeds are increased.

Main pump:

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

Pilot pump:

Type Gear pump
Maximum flow 1 x 20 l/min

Hydraulic motors:

Travel Variable displacement axial piston motors
Slew Fixed displacement axial piston motor with mechanical brake

Relief valve setting:

Implement 31,4 / 34,3 Mpa
Travel circuit 34,3 Mpa
Slew circuit 26,5 Mpa
Pilot circuit 3,9 Mpa

Hydraulic cylinders:

Monoblock boom 2
Bore x Stroke \varnothing 135 x 1 345 mm
1st boom of 2-piece boom 2
Bore x Stroke \varnothing 135 x 1 345 mm
2nd boom of 2-piece boom 1
Bore x Stroke \varnothing 160 x 1 230 mm
Arm 1
Bore x Stroke \varnothing 140 x 1 665 mm
Bucket 1
Bore x Stroke \varnothing 130 x 1 150 mm



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 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 consoles move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt to 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 106 dB(A)



GROUND PRESSURE

- Long crawler machine with 6,0 m monoblock boom, 2,97 m arm, 1 100 l (820 kg) bucket and 5 300 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	24 900 kg	49,3 kPa	3 190 mm
	700 mm	25 190 kg	42,7 kPa	3 290 mm
	800 mm	25 480 kg	37,8 kPa	3 390 mm
	900 mm	25 770 kg	34,0 kPa	3 490 mm

- Narrow long crawler machine with 6,0 m monoblock boom, 2,97 m arm, 1 100 l (820 kg) bucket and 5 300 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	24 800 kg	51,4 kPa	2 990 mm
	700 mm	25 090 kg	44,6 kPa	3 090 mm
	800 mm	25 380 kg	39,5 kPa	3 190 mm
	900 mm	25 670 kg	35,5 kPa	3 290 mm

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 direct fit buckets:

Long crawler machine with counterweight 5 300 kg

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
GP bucket 1,5 t/m ³	l	1 975	1 850	1 700
GP bucket 1,8 t/m ³	l	1 725	1 625	1 500
RB bucket 1,8 t/m ³	l	1 525	1 425	1 325
RB bucket 2,0 t/m ³	l	1 400	1 325	1 225

- Max. permitted sizes for quick fit buckets:

Long crawler machine with counterweight 5 300 kg

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
GP bucket 1,5 t/m ³	l	1 875	1 750	1 600
GP bucket 1,8 t/m ³	l	1 625	1 525	1 400
RB bucket 1,8 t/m ³	l	1 450	1 350	1 250
RB bucket 2,0 t/m ³	l	1 325	1 250	1 150

- Max. permitted sizes for direct fit buckets:

Narrow long crawler machine with counterweight 5 300 kg

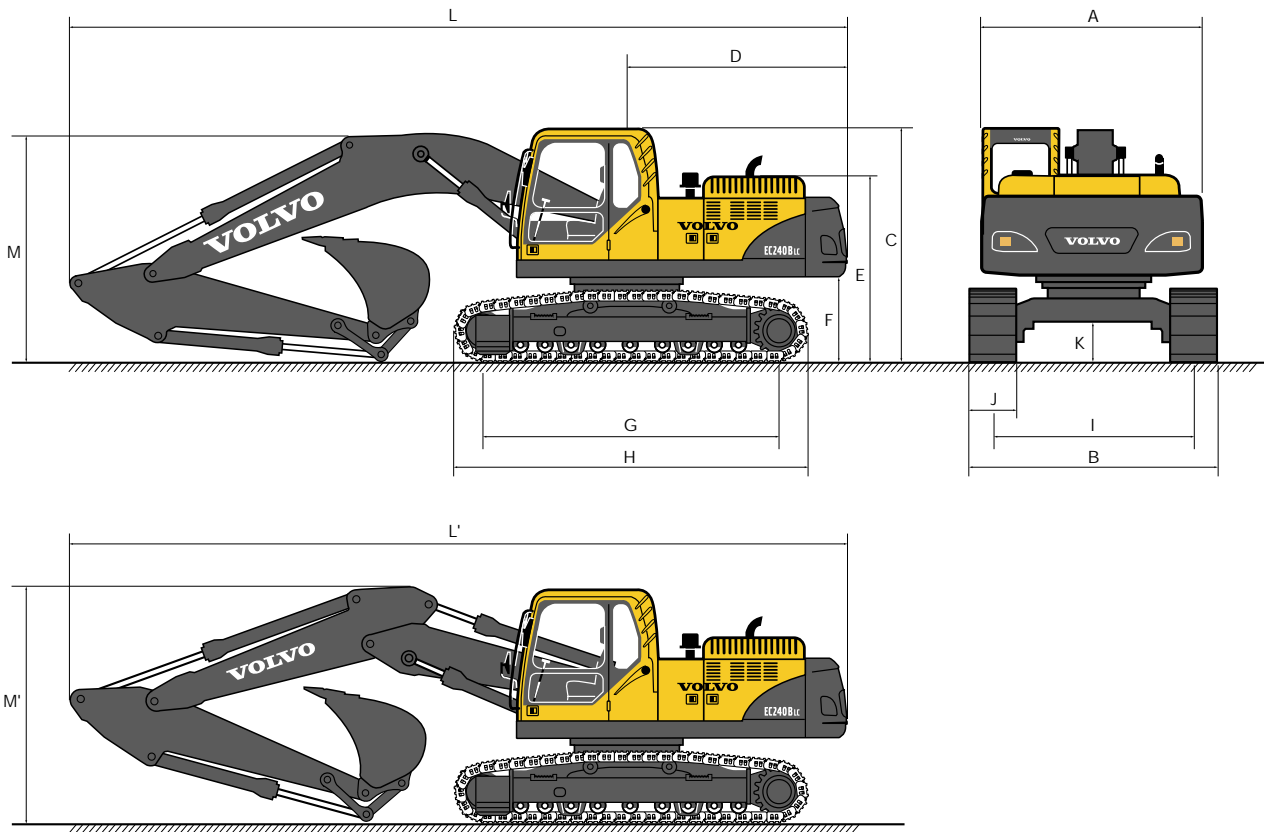
Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
GP bucket 1,5 t/m ³	l	1 800	1 675	1 550
GP bucket 1,8 t/m ³	l	1 575	1 475	1 375
RB bucket 1,8 t/m ³	l	1 400	1 300	1 200
RB bucket 2,0 t/m ³	l	1 300	1 200	1 125

- Max. permitted sizes for quick fit buckets:

Narrow long crawler machine with counterweight 5 300 kg

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
GP bucket 1,5 t/m ³	l	1 700	1 575	1 450
GP bucket 1,8 t/m ³	l	1 475	1 375	1 275
RB bucket 1,8 t/m ³	l	1 300	1 225	1 125
RB bucket 2,0 t/m ³	l	1 225	1 125	1 050

DIMENSIONS



• Long crawler machine

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
A. Overall width of superstructure	mm	2 840	2 840	2 840
B. Overall width	mm	3 190	3 190	3 190
C. Overall height of cab	mm	2 990	2 990	2 990
D. Tail slew radius	mm	2 850	2 850	2 850
E. Overall height of engine hood	mm	2 390	2 390	2 390
F. Counterweight clearance *	mm	1 080	1 080	1 080
G. Tumbler length	mm	3 850	3 850	3 850
H. Track length	mm	4 650	4 650	4 650
I. Track gauge	mm	2 590	2 590	2 590
J. Shoe width	mm	600	600	600
K. Min. ground clearance *	mm	470	470	470
L. Overall length	mm	10 110	10 020	10 100
L'. Overall length	mm	10 050	10 020	10 030
M. Overall height of boom	mm	3 220	3 040	3 220
M'. Overall height of boom	mm	3 240	3 160	3 380

* Without shoe grouser

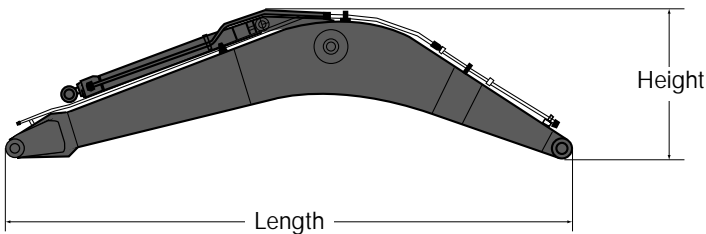
DIMENSIONS

• Narrow long crawler machine

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
A. Overall width of superstructure	mm	2 840	2 840	2 840
B. Overall width	mm	2 990	2 990	2 990
C. Overall height of cab	mm	2 990	2 990	2 990
D. Tail slew radius	mm	2 850	2 850	2 850
E. Overall height of engine hood	mm	2 390	2 390	2 390
F. Counterweight clearance *	mm	1 080	1 080	1 080
G. Tumbler length	mm	3 660	3 660	3 660
H. Track length	mm	4 460	4 460	4 460
I. Track gauge	mm	2 390	2 390	2 390
J. Shoe width	mm	600	600	600
K. Min. ground clearance *	mm	470	470	470
L. Overall length	mm	10 110	10 020	10 100
L'. Overall length	mm	10 050	10 020	10 030
M. Overall height of boom	mm	3 220	3 040	3 220
M'. Overall height of boom	mm	3 240	3 160	3 380

* Without shoe grouser

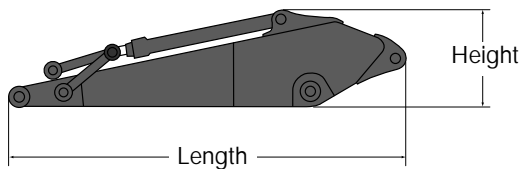
• Boom



Description	6,0 m	5,95 m 2-piece
Length	6 210 mm	6 160 mm
Height	1 630 mm	1 510 mm
Width	730 mm	730 mm
Weight	2 040 kg	2 420 kg

* Includes cylinder, pin and piping

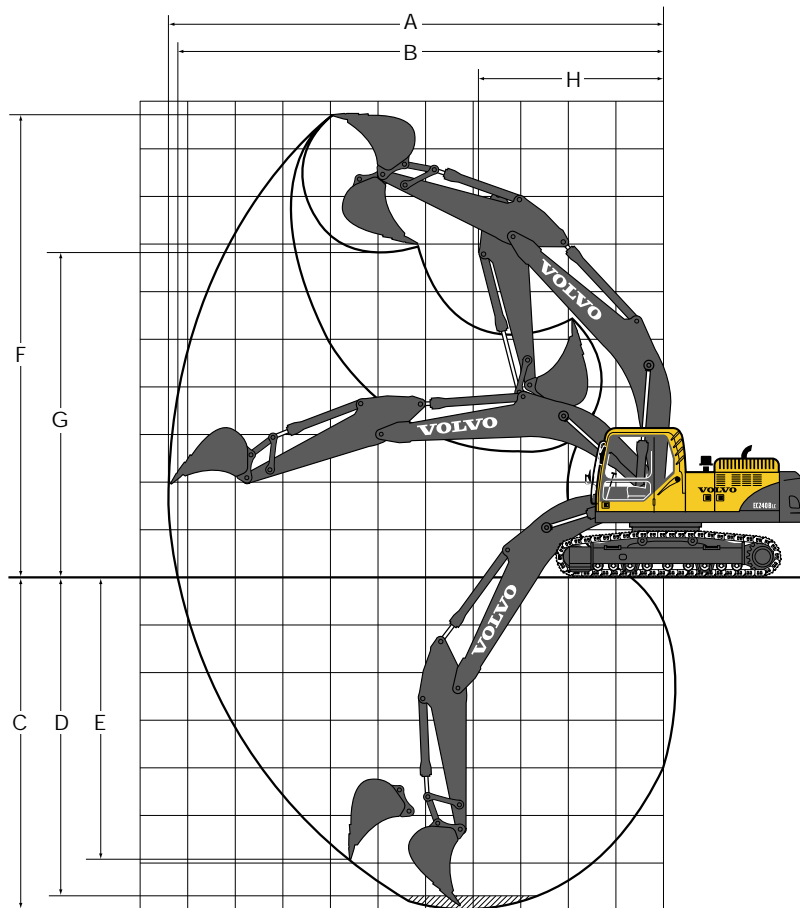
• Arm



Description	2,5 m	2,97 m	3,6 m
Length	3 590 mm	4 060 mm	4 730 mm
Height	930 mm	920 mm	920 mm
Width	480 mm	480 mm	480 mm
Weight	1 185 kg	1 210 kg	1 290 kg

* Includes cylinder, piping and linkage

WORKING RANGES & DIGGING FORCES



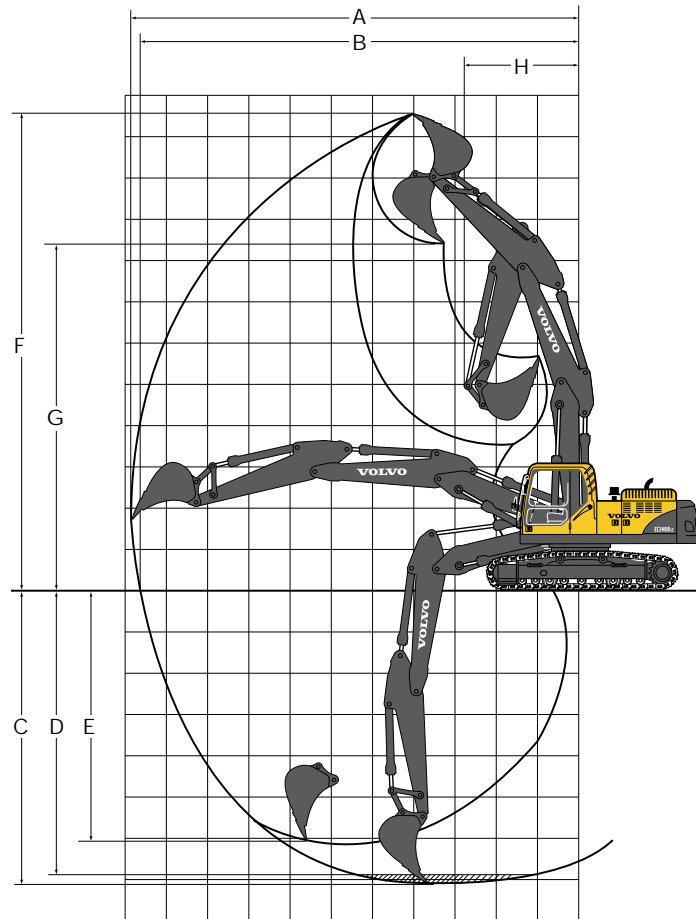
• 6,0 m monoblock boom with direct fit bucket

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
A. Max. digging reach	mm	9 880	10 260	10 730
B. Max. digging reach on ground	mm	9 690	10 080	10 560
C. Max. digging depth	mm	6 500	6 980	7 600
D. Max. digging depth	mm	6 280	6 740	7 380
E. Max. vertical wall digging depth	mm	5 730	5 970	6 270
F. Max. cutting height	mm	9 620	9 690	9 660
G. Max. dumping height	mm	6 700	6 800	6 820
H. Min. front slew radius	mm	3 910	3 890	3 890

• Digging forces with direct fit bucket

Description	Unit	6,0 m Boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
Bucket radius	mm	1 540	1 540	1 540
Breakout force – bucket (Normal / Power boost)	SAE kN	143,2 / 156,9	143,2 / 156,9	143,2 / 156,9
Breakout force – bucket (Normal / Power boost)	ISO kN	160,8 / 175,5	160,8 / 175,5	160,8 / 175,5
Tearout force – arm (Normal / Power boost)	SAE kN	125,2 / 137,0	108,8 / 118,7	97,1 / 105,9
Tearout force – arm (Normal / Power boost)	ISO kN	129,0 / 141,1	111,1 / 121,6	99,0 / 108,2
Rotation angle, bucket	deg	177	177	177

WORKING RANGES & DIGGING FORCES



• 5,95 m 2-piece boom with direct fit bucket

Description	Unit	5,95 m 2-piece boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
A. Max. digging reach	mm	9 890	10 290	10 780
B. Max. digging reach on ground	mm	9 710	10 110	10 610
C. Max. digging depth	mm	6 040	6 480	7 050
D. Max. digging depth	mm	5 930	6 380	6 950
E. Max. vertical wall digging depth	mm	5 110	5 590	6 020
F. Max. cutting height	mm	11 080	11 340	11 580
G. Max. dumping height	mm	8 010	8 270	8 530
H. Min. front slew radius	mm	2 790	2 550	2 720















• Digging forces with direct fit bucket

Description	Unit	5,95 m 2-piece boom		
		2,5 m Arm	2,97 m Arm	3,6 m Arm
Bucket radius	mm	1 540	1 540	1 540
Breakout force – bucket (Normal / Power boost)	SAE kN	143,2 / 156,9	143,2 / 156,9	143,2 / 156,9
Breakout force – bucket (Normal / Power boost)	ISO kN	160,8 / 175,5	160,8 / 175,5	160,8 / 175,5
Tearout force – arm (Normal / Power boost)	SAE kN	125,2 / 137,0	108,8 / 118,7	97,1 / 105,9
Tearout force – arm (Normal / Power boost)	ISO kN	129,0 / 141,1	111,1 / 121,6	99,0 / 108,2
Rotation angle, bucket	deg	177	177	177

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.

EC240B LC















 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 5 300 kg CWT monoblock boom 6,0 m + arm 2,5 m	6,0 m kg					*6 450	*6 450					*6 500	6 500	7 230
	4,5 m kg			*8 740	*8 740	*7 260	6 770	*6 660	4 800			6 510	4 400	7 910
	3,0 m kg			*11 300	9 790	*8 410	6 460	6 960	4 670			5 990	4 030	8 260
	1,5 m kg			*13 280	9 260	*9 490	6 190	6 810	4 530			5 830	3 900	8 330
	0 m kg			*14 020	9 050	9 340	6 020	6 710	4 440			6 000	3 990	8 110
	-1,5 m kg	*9 480	*9 480	*13 830	9 030	9 270	5 960	6 690	4 420			6 570	4 350	7 590
	-3,0 m kg	*17 680	*17 680	*12 810	9 150	9 350	6 030					7 940	5 210	6 700
-4,5 m kg	*14 150	*14 150	*10 320	9 430							*8 590	7 550	5 250	
with 600 mm shoe 5 300 kg CWT monoblock boom 6,0 m + arm 2,97 m	6,0 m kg					*5 890	*5 890	*5 910	4 930			*5 280	4 740	7 670
	4,5 m kg			*7 870	*7 870	*6 740	*6 740	*6 320	4 840			*5 300	4 090	8 310
	3,0 m kg			*10 430	9 970	*7 940	6 520	*6 810	4 690			*5 520	3 770	8 640
	1,5 m kg			*12 660	9 350	*9 120	6 210	6 820	4 530			5 450	3 650	8 710
	0 m kg			*13 790	9 040	9 330	6 000	6 690	4 410			5 580	3 710	8 500
	-1,5 m kg	*9 700	*9 700	*13 930	8 960	9 230	5 910	6 640	4 360			6 050	4 000	8 010
	-3,0 m kg	*16 150	*16 150	*13 210	9 030	9 260	5 940					7 120	4 680	7 170
-4,5 m kg	*15 770	*15 770	*11 310	9 260							*8 410	6 360	5 840	
with 600 mm shoe 5 300 kg CWT monoblock boom 6,0 m + arm 3,6 m	6,0 m kg							*5 290	5 040			*4 460	4 320	8 200
	4,5 m kg					*6 020	*6 020	*5 680	4 920			*4 500	3 780	8 800
	3,0 m kg	*14 800	*14 800	*9 230	*9 230	*7 270	6 630	*6 330	4 740	5 180	3 570	*4 710	3 490	9 120
	1,5 m kg			*11 720	9 500	*8 560	6 280	6 850	4 560	5 210	3 480	5 050	3 370	9 180
	0 m kg	*6 440	*6 400	*13 300	9 050	9 350	6 010	6 690	4 400			5 140	3 410	8 980
	-1,5 m kg	*9 830	*9 830	*13 860	8 880	9 180	5 870	6 590	4 320			5 500	3 630	8 520
	-3,0 m kg	*14 560	*14 560	*13 560	8 890	9 160	5 850	6 600	4 320			6 310	4 150	7 740
-4,5 m kg	*17 530	17 530	*12 250	9 050	9 060	5 960					*8 110	5 320	6 520	
with 600 mm shoe 5 300 kg CWT 2-piece boom 5,95 m + arm 2,5 m	6,0 m kg			*9 150	*9 150	*8 530	6 990					*6 840	5 090	7 250
	4,5 m kg			*11 490	10 520	*9 090	6 740	7 100	4 760			6 470	4 330	7 920
	3,0 m kg			*13 220	9 740	*9 800	6 410	6 950	4 620			5 960	3 960	8 270
	1,5 m kg			*13 990	9 170	9 510	6 120	6 790	4 480			5 800	3 840	8 340
	0 m kg			*13 390	8 950	9 310	5 940	6 690	4 380			5 970	3 930	8 120
	-1,5 m kg	*9 300	*9 300	*11 810	8 940	*9 150	5 900	6 690	4 380			*6 500	4 300	7 610
	-3,0 m kg			*9 180	9 080	*7 060	5 990					*5 660	5 170	6 720
-4,5 m kg														
with 600 mm shoe 5 300 kg CWT 2-piece boom 5,95 m + arm 2,97 m	6,0 m kg			*7 270	*7 270	*7 560	7 090	*5 950	4 890			*5 150	4 660	7 700
	4,5 m kg	*15 390	*15 390	*10 570	*10 570	*8 700	6 830	7 160	4 810			*5 120	4 020	8 340
	3,0 m kg			*12 660	9 930	*9 500	6 480	6 980	4 650			*5 290	3 700	8 670
	1,5 m kg			*13 820	9 260	9 560	6 150	6 800	4 480			5 410	3 580	8 730
	0 m kg			*13 690	8 940	9 310	5 930	6 670	4 360			5 540	3 650	8 530
	-1,5 m kg	*9 540	*9 540	*12 450	8 870	9 210	5 850	6 620	4 320			6 010	3 940	8 040
	-3,0 m kg			*10 180	8 960	*7 830	5 890					*5 780	4 620	7 210
-4,5 m kg														
with 600 mm shoe 5 300 kg CWT 2-piece boom 5,95 m + arm 3,6 m	6,0 m kg					*6 230	*6 230	*5 740	5 020			*4 350	4 240	8 250
	4,5 m kg	*6 950	*6 950	*7 460	*7 460	*7 380	6 980	*6 730	4 890			*4 360	3 700	8 850
	3,0 m kg			*11 810	10 220	*9 040	6 600	7 060	4 710	*5 200	3 520	*4 520	3 420	9 160
	1,5 m kg			*13 380	9 430	9 640	6 220	6 840	4 510	5 190	3 430	*4 840	3 300	9 220
	0 m kg	*6 260	*6 260	*13 810	8 960	9 320	5 940	6 670	4 350	5 110	3 360	5 080	3 340	9 030
	-1,5 m kg	*9 680	*9 680	*13 070	8 780	9 160	5 800	6 570	4 270			5 440	3 570	8 570
	-3,0 m kg	*14 540	*14 540	*11 280	8 800	*8 600	5 790	*6 360	4 280			*5 860	4 080	7 790
-4,5 m kg			*8 200	*8 200	*6 080	5 930					*5 650	5 590	6 260	

- 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.

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.

EC240B NLC

 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 5 300 kg CWT monoblock boom 6,0 m + arm 2,5 m	6,0 m kg					*6 470	6 430					*6 500	4 740	7 230
	4,5 m kg			*8 740	*8 740	*7 260	6 200	6 660	4 400			6 100	4 030	7 910
	3,0 m kg			*11 300	8 870	*8 410	5 900	6 520	4 270			5 610	3 680	8 260
	1,5 m kg			*13 280	8 350	8 860	5 630	6 370	4 140			5 460	3 560	8 330
	0 m kg			13 710	8 150	8 670	5 460	6 270	4 040			5 610	3 640	8 110
	-1,5 m kg	*9 480	*9 480	13 690	8 130	8 610	5 410	6 250	4 030			6 140	3 960	7 590
	-3,0 m kg	*17 680	16 120	*12 810	8 240	8 690	5 480					7 400	4 740	6 700
	-4,5 m kg	*14 150	*14 150	*10 320	8 520							*8 590	6 850	5 250
with 600 mm shoe 5 300 kg CWT monoblock boom 6,0 m + arm 2,97 m	6,0 m kg					*5 890	*5 890	*5 910	4 530			*5 280	4 350	7 670
	4,5 m kg			*7 870	*7 870	*6 740	6 280	*6 230	4 440			*5 300	3 750	8 310
	3,0 m kg			*10 430	9 030	*7 940	5 960	6 540	4 290			5 250	3 440	8 640
	1,5 m kg			*12 660	8 430	8 900	5 660	6 370	4 140			5 100	3 330	8 710
	0 m kg			13 710	8 140	8 670	5 450	6 240	4 020			5 220	3 380	8 500
	-1,5 m kg	*9 700	*9 700	13 610	8 060	8 570	5 360	6 190	3 970			5 650	3 640	8 010
	-3,0 m kg	*16 150	15 870	*13 210	8 130	8 600	5 390					6 640	4 260	7 170
	-4,5 m kg	*15 770	*15 770	*11 310	8 350							*8 410	5 790	5 840
with 600 mm shoe 5 300 kg CWT monoblock boom 6,0 m + arm 3,6 m	6,0 m kg							*5 290	4 640			*4 460	3 970	8 200
	4,5 m kg					*6 020	*6 020	*5 680	4 520			*4 500	3 460	8 800
	3,0 m kg	*14 800	*14 800	*9 230	*9 230	*7 270	6 060	*6 330	4 340	4 970	3 260	*4 710	3 190	9 120
	1,5 m kg			*11 720	8 580	*8 560	5 720	6 400	4 160	4 870	3 170	4 730	3 080	9 180
	0 m kg	*6 440	*6 440	*13 300	8 150	8 680	5 460	6 240	4 010			4 810	3 110	8 980
	-1,5 m kg	*9 830	*9 830	13 530	7 980	8 520	5 320	6 150	3 930			5 140	3 310	8 520
	-3,0 m kg	*14 560	*14 560	13 540	7 990	8 500	5 300	6 150	3 930			5 890	3 770	7 740
	-4,5 m kg	*17 530	15 880	*12 250	8 140	8 620	5 410					7 630	4 840	6 520
with 600 mm shoe 5 300 kg CWT 2-piece boom 5,95 m + arm 2,5 m	6,0 m kg			*9 150	*9 150	*8 530	6 400					*6 840	4 670	7 250
	4,5 m kg			*11 490	9 560	*9 090	6 170	6 640	4 350			6 060	3 960	7 920
	3,0 m kg			*13 220	8 800	9 160	5 840	6 500	4 220			5 570	3 620	8 270
	1,5 m kg			13 920	8 250	8 830	5 560	6 340	4 080			5 420	3 500	8 340
	0 m kg			*13 390	8 040	8 640	5 390	6 240	3 980			5 580	3 580	8 120
	-1,5 m kg	*9 300	*9 300	*11 810	8 030	8 590	5 340	6 240	3 980			6 120	3 910	7 610
	-3,0 m kg			*9 180	8 170	*7 060	5 430					*5 660	4 700	6 720
	-4,5 m kg													
with 600 mm shoe 5 300 kg CWT 2-piece boom 5,95 m + arm 2,97 m	6,0 m kg			*7 270	*7 270	*7 560	6 500	*5 950	4 480			*5 150	4 270	7 700
	4,5 m kg	*15 390	*15 390	*10 570	9 760	*8 700	6 250	6 700	4 400			*5 120	3 680	8 340
	3,0 m kg			*12 660	8 980	9 240	5 910	6 530	4 240			5 200	3 370	8 670
	1,5 m kg			*13 820	8 340	8 880	5 590	6 350	4 080			5 060	3 260	8 730
	0 m kg			13 660	8 030	8 630	5 370	6 220	3 960			5 170	3 320	8 530
	-1,5 m kg	*9 540	*9 540	*12 450	7 950	8 540	5 290	6 170	3 920			5 610	3 580	8 040
	-3,0 m kg			*10 180	8 050	*7 830	5 330					*5 780	4 200	7 210
	-4,5 m kg													
with 600 mm shoe 5 300 kg CWT 2-piece boom 5,95 m + arm 3,6 m	6,0 m kg					*6 230	*6 230	*5 740	4 610			*4 350	3 880	8 250
	4,5 m kg	*6 950	*6 950	*7 460	*7 460	*7 380	6 400	*6 730	4 490			*4 360	3 380	8 850
	3,0 m kg			*11 810	9 260	*9 040	6 030	6 600	4 300	4 950	3 210	*4 520	3 110	9 160
	1,5 m kg			*13 380	8 500	8 960	5 660	6 390	4 110	4 850	3 120	4 670	3 000	9 220
	0 m kg	*6 260	*6 260	13 690	8 040	8 650	5 380	6 220	3 950	4 770	3 050	4 750	3 040	9 030
	-1,5 m kg	*9 680	*9 680	*13 070	7 870	8 490	5 240	6 120	3 870			5 080	3 240	8 570
	-3,0 m kg	*14 540	*14 540	*11 280	7 890	8 480	5 230	6 140	3 880			5 830	3 700	7 790
	-4,5 m kg			*8 200	8 080	*6 080	5 370					*5 650	5 070	6 260

- 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.

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Step 2 requirements
3-stage air filter with indicator, and pre-cleaner
Air intake heater
Electric engine shut-off
Fuel filter and water separator
Fuel filler pump: 50 l/min with automatic shut-off
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
"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 2
Batteries, 2 x 12 V / 200 Ah
Start motor, 24 V / 4,8 kW

Hydraulic system

Automatic hydraulic system:
– Summation system
– Boom priority
– Arm priority
– Slew priority
Boom and arm regeneration valves
Slew anti-rebound valves
Boom and arm holding valves
Multi-stage filtering system
Cylinder cushioning
Cylinder contamination seals
Hose rupture valve: boom

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
Counterweight, 5 300 kg
Undercover (heavy duty 4,5 mm)

Cab and interior

Heater & air-conditioner, automatic
Hydraulic dampening cab mounts
Adjustable operator seat and joystick control console
Flexible antenna
Hydraulic safety lock lever
Control joystick, with 5 switches ea.
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
– Windshield wiper with intermittent feature
– Stereo cassette radio
Anti-vandalism kit assembly preparation
Sun shield, front, roof, rear
Master ignition key

Undercarriage

Hydraulic track adjusters
Greased and sealed track chain
Track guards
Undercover (heavy duty 10 mm)

Service

Tool kit, daily maintenance

ALTERNATIVE EQUIPMENT

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

Digging equipment

Boom: 6,0 m monoblock
5,95 m 2-piece
Arm: 2,5 / 2,97 / 3,6 m

Undercarriage

LC (Long crawler)
NLC (Narrow long crawler)

OPTIONAL EQUIPMENT (Standard in certain markets)

Engine

Block heater, 240 V
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: dipper arm
Hydraulic piping
– Hammer & shears:
1 pump or 2 pump flow
Pump flow control for hammer & shears
Additional return filter
Extra piping for slope & rotator
– Slope & rotator
– Grapple
– Oil leak (drain) line
– Quick fit piping
Volvo hydraulic quick-fit, S1, S2, S2 narrow size
Hydraulic oil, ISO VG 32
Hydraulic oil, ISO VG 68
Hydraulic oil, biodegradable 32
Hydraulic oil, biodegradable 46
Boom floating function

Cab and interior

Falling object guard (FOG)
Cab mounted falling object protective structures (FOPS)
Rain shield, front
Sunlight protection, roof (steel)
Safety net for front window
Lower wiper
Anti-vandalism kit
Specific key

Undercarriage

Full track guards

Service

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

Construction Equipment

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