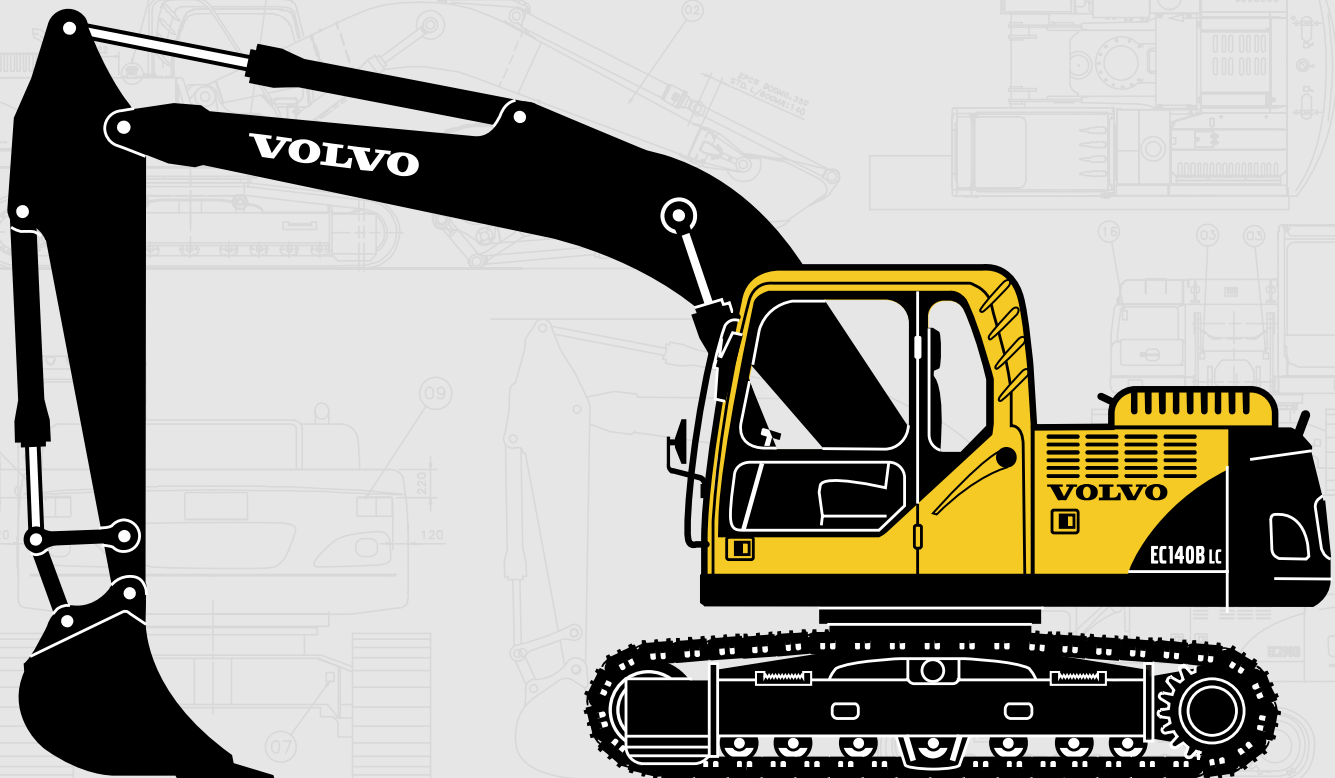


VOLVO EXCAVATOR

EC140B LC

EC140B LCM

MONOBLOCK/2-PIECE BOOM



- Engine power, gross:
73 kW (98 hp)
- Operating weight:
LC: 13,7 ~ 15,2 t
LCM: 14,9 ~ 15,6 t
- Buckets (SAE)
650 ~ 1 075 l
- Turbocharged VOLVO diesel engine with direct injection
- 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
- Undercarriage
 - LC: Long undercarriage for good stability
 - LCM: Uses 20 ton class undercarriage components and offers higher ground clearance transportation
- Auxiliary hydraulic valve as standard
- Prepared for a number of optional items

VOLVO



ENGINE

Turbocharged, 4-stroke diesel engine with water cooling, direct injection. The engine has been developed especially for excavator use, providing good fuel economy, low noise levels and a long service life.

Air Filter: 2-stage

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

Make	VOLVO
Model	D4D EAE1
Power output at	35 r/s (2 100 rpm)
Net (ISO 9249/ DIN 6271)	69 kW (94 ps / 93 hp)
Gross (SAE J1349)	73 kW (99 ps / 98 hp)
Max. torque	390 N·m at 1 500 rpm
No. of cylinders	4
Displacement	4 l
Bore	101 mm
Stroke	126 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	100 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 46
Link pitch	171,45 mm
Shoe width, triple grouser	500 / 600 / 700 / 750 mm
No. of lower rollers	2 x 7
No. of top rollers	2 x 1

LCM

No. of track shoes	2 x 42
Link pitch	190 mm
Shoe width, triple grouser	600 / 700 / 800 / 900 mm
No. of lower rollers	2 x 6
No. of top rollers	2 x 2



DRIVE

Each track is powered by an automatic two-speed travel motor. The track brakes are multi-disc, spring-applied and hydraulically released. The automatic two-speed travel motor, brake and planetary gears are well protected in the track frame.

LC

Max. tractive effort	109,8 kN
Max. travel speed	3,2 / 5,5 km/h
Gradeability	35° (70%)

LCM

Max. tractive effort	140,2 kN
Max. travel speed	2,5 / 4,3 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	11,0 rpm
-----------------	----------



SERVICE REFILL CAPACITIES

Fuel tank	260 l
Hydraulic system, total	205 l
Hydraulic tank	100 l
Engine oil	15,5 l
Engine coolant	20,3 l
Slew reduction unit	3,8 l
Travel reduction unit	
LC	2 x 3,5 l
LCM	2 x 5,8 l



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 slew 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.

Slew priority: Supplies priority to the slew operation for faster slew 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 118 l/min

Pilot pump

Type Gear pump
Maximum flow ... 1 x 21 l/min

Hydraulic motors

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

Relief valve setting

Implement 32,4 / 34,3 Mpa
Travel circuit 34,3 Mpa
Slew circuit 24,5 Mpa
Pilot circuit 3,9 Mpa

Hydraulic cylinders

Monoblock boom 2
bore x stroke \varnothing 105 x 980 mm
1st boom of 2-piece boom 2
bore x stroke \varnothing 110 x 980 mm
2nd boom of 2-piece boom 1
bore x stroke \varnothing 160 x 765 mm
Arm 1
bore x stroke \varnothing 120 x 1 045 mm
Bucket 1
bore x stroke \varnothing 100 x 865 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. 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 72 dB(A)
External sound level
according to ISO 6395 LwA 100 dB(A)
(Directive 2000/14/EC)



GROUND PRESSURE

- LC undercarriage with 4,6 m monoblock boom, 2,5 m arm, 450 l (400 kg) bucket and 2 450 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	500 mm	13 740 kg	41,1 kPa	2 490 mm
	600 mm	13 950 kg	35,0 kPa	2 590 mm
	700 mm	14 160 kg	30,5 kPa	2 690 mm
	750 mm	14 270 kg	28,7 kPa	2 740 mm

- LC undercarriage dozer blade with 4,6 m monoblock boom, 2,5 m arm, 450 l (400 kg) bucket and 2 450 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	500 mm	14 640 kg	44,1 kPa	2 490 mm
	600 mm	14 850 kg	37,3 kPa	2 590 mm
	700 mm	15 060 kg	32,4 kPa	2 690 mm
	750 mm	15 170 kg	30,5 kPa	2 740 mm

- LCM undercarriage with 4,6 m monoblock boom, 2,5 m arm, 450 l (400 kg) bucket and 2 450 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	14 940 kg	37,2 kPa	2 590 mm
	700 mm	15 150 kg	32,3 kPa	2 690 mm
	800 mm	15 360 kg	28,7 kPa	2 790 mm
	900 mm	15 570 kg	25,8 kPa	2 890 mm

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:
LC undercarriage with counterweight 2 450 kg

Description	Unit	4,6 m Boom		
		2,1 m Arm	2,5 m Arm	3,0 m Arm
GP bucket 1,5 t/m ³	l	975	900	800
GP bucket 1,8 t/m ³	l	850	775	700

- Max. permitted sizes for quick fit buckets:
LC undercarriage with counterweight 2 450 kg

Description	Unit	4,6 m Boom		
		2,1 m Arm	2,5 m Arm	3,0 m Arm
GP bucket 1,5 t/m ³	l	950	850	750
GP bucket 1,8 t/m ³	l	825	750	650

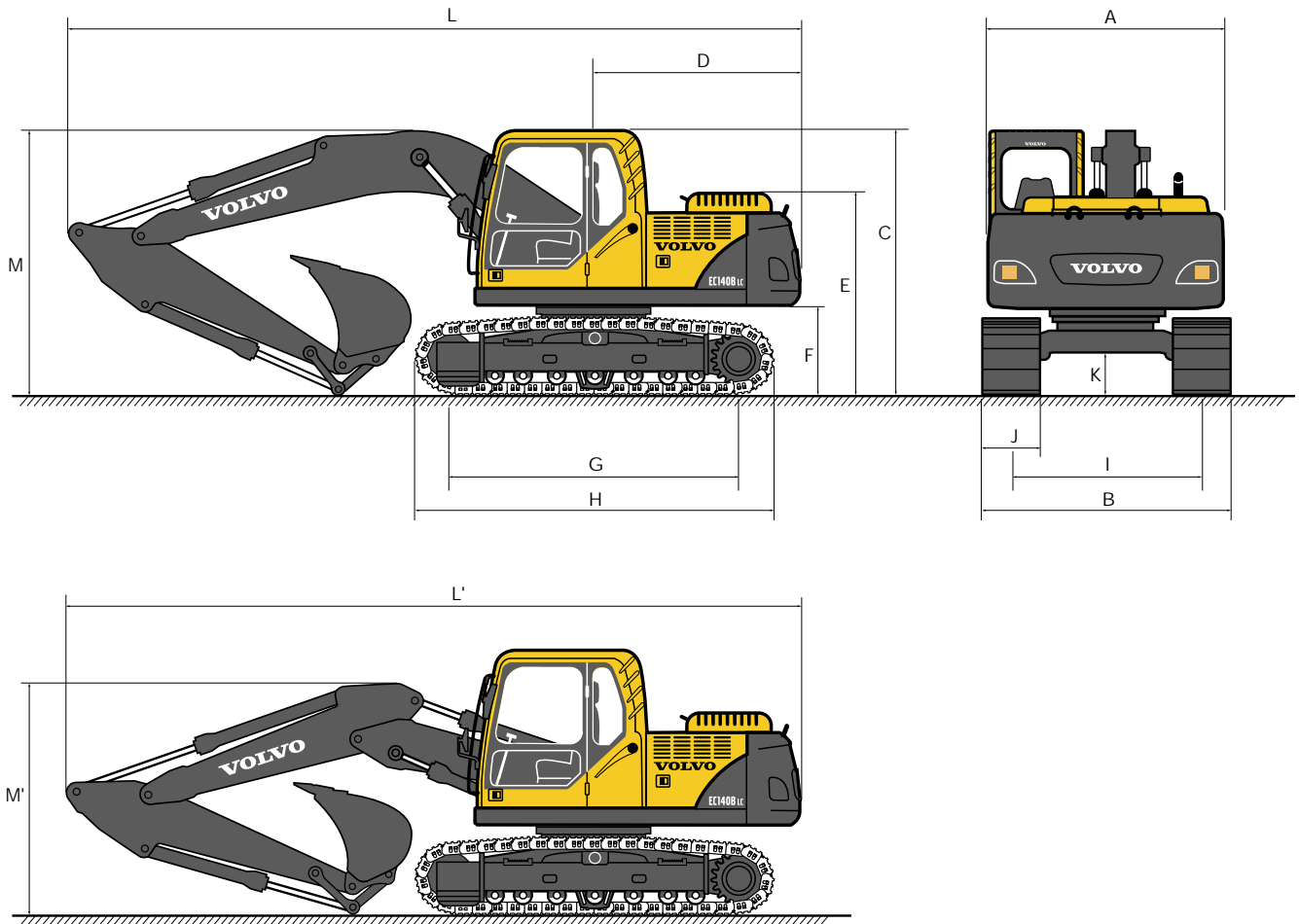
- Max. permitted sizes for direct fit buckets:
LCM undercarriage with counterweight 2 450 kg

Description	Unit	4,6 m Boom		
		2,1 m Arm	2,5 m Arm	3,0 m Arm
GP bucket 1,5 t/m ³	l	1 075	1 000	875
GP bucket 1,8 t/m ³	l	950	875	775

- Max. permitted sizes for quick fit buckets:
LCM undercarriage with counterweight 2 450 kg

Description	Unit	4,6 m Boom		
		2,1 m Arm	2,5 m Arm	3,0 m Arm
GP bucket 1,5 t/m ³	l	1 050	950	850
GP bucket 1,8 t/m ³	l	900	825	725

DIMENSIONS



• LC

Description	Unit	4,6 m Boom		
		2,1 m Arm	2,5 m Arm	3,0 m Arm
A. Overall width of superstructure	mm	2 450	2 450	2 450
B. Overall width	mm	2 590	2 590	2 590
C. Overall height of cab	mm	2 770	2 770	2 770
D. Tail slew radius	mm	2 130	2 130	2 130
E. Overall height of engine hood	mm	2 080	2 080	2 080
F. Counterweight clearance *	mm	900	900	900
G. Tumbler length	mm	3 000	3 000	3 000
H. Track length	mm	3 740	3 740	3 740
I. Track gauge	mm	1 990	1 990	1 990
J. Shoe width	mm	600	600	600
K. Min. ground clearance *	mm	430	430	430
L. Overall length	mm	7 630	7 630	7 510
L'. Overall length	mm	7 610	7 550	7 320
M. Overall height of boom	mm	2 710	2 830	3 210
M'. Overall height of boom	mm	2 720	2 950	3 350

* Without shoe grouser

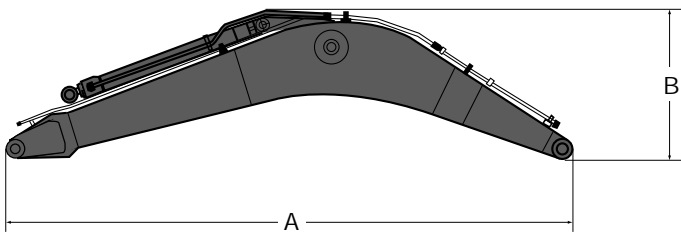
DIMENSIONS

• LCM

Description	Unit	4,6 m Boom		
		2,1 m Arm	2,5 m Arm	3,0 m Arm
A. Overall width of superstructure	mm	2 450	2 450	2 450
B. Overall width	mm	2 690	2 690	2 690
C. Overall height of cab	mm	2 960	2 960	2 960
D. Tail slew radius	mm	2 130	2 130	2 130
E. Overall height of engine hood	mm	2 270	2 270	2 270
F. Counterweight clearance *	mm	1 080	1 080	1 080
G. Tumbler length	mm	3 000	3 000	3 000
H. Track length	mm	3 790	3 790	3 790
I. Track gauge	mm	1 990	1 990	1 990
J. Shoe width	mm	700	700	700
K. Min. ground clearance *	mm	540	540	540
L. Overall length	mm	7 600	7 620	7 580
L'. Overall length	mm	7 630	7 600	7 420
M. Overall height of boom	mm	2 780	2 900	3 160
M'. Overall height of boom	mm	2 820	2 990	3 370

* Without shoe grouser

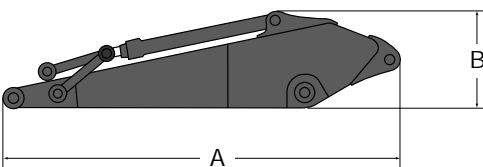
• Boom



Description	4,6 m	4,6 m 2-piece
A. Length	4 770 mm	4 765 mm
B. Height	1 370 mm	1 225 mm
Width	545 mm	545 mm
Weight	1 000 kg	1 280 kg

* Includes cylinder, pin and piping

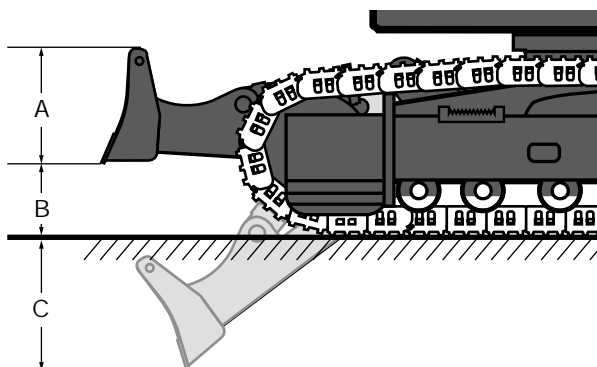
• Arm



Description	2,1 m	2,5 m	3,0 m
A. Length	2 800 mm	3 190 mm	3 690 mm
B. Height	760 mm	760 mm	760 mm
Width	300 mm	300 mm	300 mm
Weight	570 kg	645 kg	720 kg

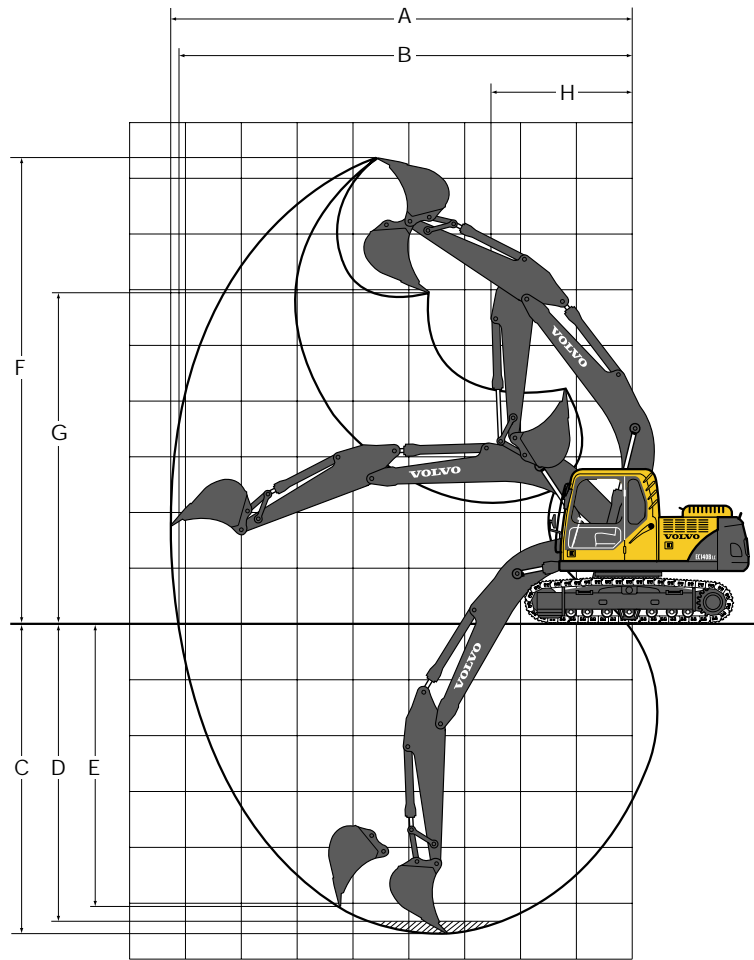
* Includes cylinder, piping and linkage

• Front dozer blade (for LC only)



Description	Measurement
A. Height	580 mm
Width	2 590 mm
Weight	900 kg
B. Lift height	504 mm
C. Digging depth	562 mm

WORKING RANGES & DIGGING FORCES



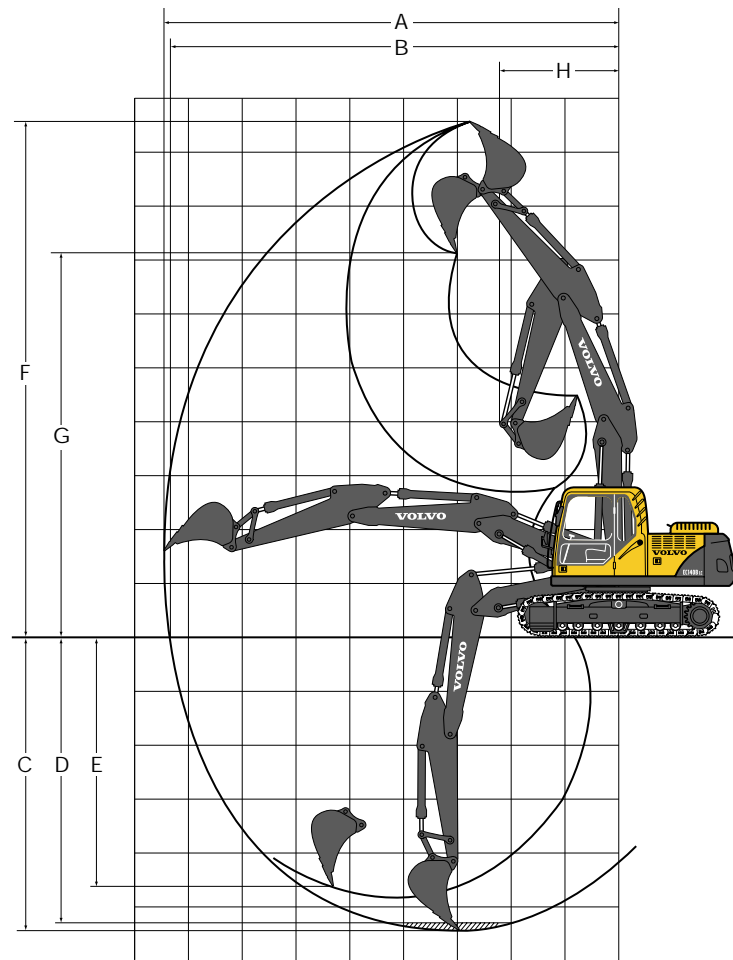
• 4,6 m monoblock boom with direct fit bucket:

Description	Unit	LC			LCM		
		2,1 m Arm	2,5 m Arm	3,0 m Arm	2,1 m Arm	2,5 m Arm	3,0 m Arm
A. Max. digging reach	mm	7 960	8 330	8 820	7 960	8 330	8 820
B. Max. digging reach on ground	mm	7 810	8 190	8 690	7 780	8 160	8 660
C. Max. digging depth	mm	5 130	5 530	6 030	4 980	5 380	5 880
D. Max. digging depth	mm	4 870	5 310	5 850	4 710	5 160	5 690
E. Max. vertical wall digging depth	mm	4 580	5 060	5 500	4 430	4 900	5 330
F. Max. cutting height	mm	8 180	8 420	8 770	8 340	8 570	8 930
G. Max. dumping height	mm	5 740	5 980	6 320	5 900	6 130	6 470
H. Min. front slew radius	mm	2 570	2 630	2 840	2 570	2 640	2 830

• Digging forces with direct fit bucket

Description	Unit	LC			LCM		
		2,1 m Arm	2,5 m Arm	3,0 m Arm	2,1 m Arm	2,5 m Arm	3,0 m Arm
Bucket radius	mm	1 250	1 250	1 250	1 250	1 250	1 250
Breakout force – bucket (Normal / Power boost)	SAE kN	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3
Breakout force – bucket (Normal / Power boost)	ISO kN	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1
Tearout force – arm (Normal / Power boost)	SAE kN	69,6 / 73,5	61,8 / 65,7	54,9 / 58,8	69,6 / 73,5	61,8 / 65,7	54,9 / 58,8
Tearout force – arm (Normal / Power boost)	ISO kN	71,6 / 75,5	63,7 / 67,7	56,9 / 59,8	71,6 / 75,5	63,7 / 67,7	56,9 / 59,8
Rotation angle, bucket	deg	174	174	173	174	174	173

WORKING RANGES & DIGGING FORCES



• 4,6 m 2-piece boom with direct fit bucket:

Description	Unit	LC			LCM		
		2,1 m Arm	2,5 m Arm	3,0 m Arm	2,1 m Arm	2,5 m Arm	3,0 m Arm
A. Max. digging reach	mm	8 050	8 440	8 930	8 050	8 440	8 930
B. Max. digging reach on ground	mm	7 910	8 300	8 800	7 880	8 270	8 780
C. Max. digging depth	mm	5 060	5 450	5 960	4 900	5 300	5 800
D. Max. digging depth	mm	4 940	5 340	5 850	4 780	5 180	5 690
E. Max. vertical wall digging depth	mm	4 270	4 660	5 190	4 120	5 400	5 040
F. Max. cutting height	mm	9 250	9 610	10 090	9 400	9 770	10 240
G. Max. dumping height	mm	6 780	7 140	7 630	6 930	7 290	7 780
H. Min. front slew radius	mm	1 960	2 220	2 640	1 960	2 220	2 640
















• Digging forces with direct fit bucket

Description	Unit	LC			LCM		
		2,1 m Arm	2,5 m Arm	3,0 m Arm	2,1 m Arm	2,5 m Arm	3,0 m Arm
Bucket radius	mm	1 250	1 250	1 250	1 250	1 250	1 250
Breakout force – bucket (Normal / Power boost)	SAE kN	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3	82,4 / 87,3
Breakout force – bucket (Normal / Power boost)	ISO kN	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1	93,2 / 98,1
Tearout force – arm (Normal / Power boost)	SAE kN	69,6 / 73,5	61,8 / 65,7	54,9 / 58,8	69,6 / 73,5	61,8 / 65,7	54,9 / 58,8
Tearout force – arm (Normal / Power boost)	ISO kN	71,6 / 75,5	63,7 / 67,7	56,9 / 59,8	71,6 / 75,5	63,7 / 67,7	56,9 / 59,8
Rotation angle, bucket	deg	174	174	173	174	174	173

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.

EC140B LC















 Across undercarriage  Along undercarriage	Lifting hook related to ground level	1,5 m		3,0 m		4,5 m		6,0 m		7,5 m		Max. reach				
															Max. mm	
with 600 mm shoe 2 450 kg CWT Monoblock boom 4,6 m + Arm 2,1 m	6,0 m	kg				*3 330	*3 330						*3 510	3 400	4 880	
	4,5 m	kg				*3 480	*3 480						*3 570	2 450	5 970	
	3,0 m	kg			*6 230	*6 230	*4 330	3 670	3 630	2 390				3 170	2 090	6 530
	1,5 m	kg					*5 390	3 460	3 540	2 310				3 000	1 960	6 710
	0 m	kg			*5 180	*5 180	5 320	3 320	3 470	2 240				3 070	2 000	6 530
	-1,5 m	kg	*4 800	*4 800	*9 460	6 040	5 280	3 290						3 480	2 250	5 970
	-3,0 m	kg			*8 230	6 160	5 360	3 360						4 720	3 000	4 900
with 600 mm shoe 2 450 kg CWT Monoblock boom 4,6 m + Arm 2,5 m	6,0 m	kg				*2 830	*2 830						*3 190	2 920	5 390	
	4,5 m	kg				*3 070	*3 070	*3 180	2 450				*3 080	2 200	6 380	
	3,0 m	kg			*5 300	*5 300	*3 940	3 690	*3 480	2 390			2 900	1 900	6 910	
	1,5 m	kg			*6 300	6 240	*5 060	3 460	3 520	2 290			2 740	1 790	7 080	
	0 m	kg			*5 770	*5 770	5 290	3 290	3 440	2 210			2 800	1 810	6 910	
	-1,5 m	kg	*4 400	*4 400	*9 280	5 930	5 220	3 230	3 410	2 180			3 120	2 010	6 390	
	-3,0 m	kg	*8 600	*8 600	*8 670	6 030	5 260	3 270					4 010	2 560	5 400	
with 600 mm shoe 2 450 kg CWT Monoblock boom 4,6 m + Arm 3,0 m	6,0 m	kg						*2 790	2 470				*2 720	2 450	6 020	
	4,5 m	kg						*2 760	2 470				*2 550	1 920	6 920	
	3,0 m	kg					*3 420	*3 420	*3 120	2 390			*2 540	1 680	7 410	
	1,5 m	kg			*7 290	6 360	*4 600	3 470	3 510	2 270	2 490	1 610	2 450	1 580	7 570	
	0 m	kg			*6 230	5 930	5 270	3 270	3 400	2 170			2 490	1 600	7 410	
	-1,5 m	kg	*3 800	*3 800	*8 380	5 830	5 160	3 170	3 350	2 120			2 730	1 750	6 930	
	-3,0 m	kg	*7 040	*7 040	*060	5 880	5 170	3 180	3 380	2 150			3 350	2 130	6 030	
with 600 mm shoe 2 450 kg CWT 2-piece boom 4,6 m + Arm 2,1 m	7,5 m	kg											*5 360	*5 360	2 900	
	6,0 m	kg			*5 080	*5 080	*4 810	3 940					*3 820	3 260	5 010	
	4,5 m	kg			*5 230	*5 230	*4 950	3 880	3 710	2 440			*3 430	2 380	6 070	
	3,0 m	kg					*5 740	3 680	3 660	2 390			3 110	2 030	6 620	
	1,5 m	kg					5 510	3 450	3 560	2 300			2 940	1 910	6 800	
	0 m	kg					5 340	3 310	3 480	2 230			3 020	1 950	6 630	
	-1,5 m	kg			*9 280	6 000	5 290	3 270	3 480	2 230			3 420	2 190	6 080	
with 600 mm shoe 2 450 kg CWT 2-piece boom 4,6 m + Arm 2,5 m	7,5 m	kg			*5 080	*5 080							*3 990	*3 990	3 740	
	6,0 m	kg			*4 210	*4 210	*4 320	4 000					*3 080	2 800	5 530	
	4,5 m	kg			*3 960	*3 960	*4 550	3 930	3 740	2 460			*2 810	2 130	6 500	
	3,0 m	kg			*7 570	7 000	*5 370	3 710	3 660	2 390			*2 750	1 840	7 020	
	1,5 m	kg					5 520	3 460	3 550	2 280			2 690	1 740	7 180	
	0 m	kg			*5 230	*5 230	5 310	3 280	3 450	2 200			2 750	1 760	7 020	
	-1,5 m	kg			*8 810	5 890	5 230	3 210	3 420	2 170			3 060	1 950	6 510	
with 600 mm shoe 2 450 kg CWT 2-piece boom 4,6 m + Arm 3,0 m	7,5 m	kg			*4 120	*4 120	*3 450	*3 450					*3 100	*3 100	4 640	
	6,0 m	kg					*3 660	*3 660	*3 010	2 480			*2 530	2 350	6 160	
	4,5 m	kg			*2 850	*2 850	*3 600	*3 600	*3 750	2 490			*2 330	1 860	7 050	
	3,0 m	kg					*4 670	3 760	3 670	2 400	*2 430	1 640	*2 280	1 630	7 520	
	1,5 m	kg					5 550	3 480	3 540	2 270	2 500	1 600	*2 350	1 540	7 680	
	0 m	kg					5 300	3 250	3 420	2 160	2 460	1 560	2 450	1 550	7 530	
	-1,5 m	kg	*3 460	*3 460	*7 910	5 790	5 170	3 150	3 360	2 110			2 680	1 700	7 050	

- 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.

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.

EC140B LCM

 Across undercarriage  Along undercarriage	Lifting hook related to ground level	1,5 m		3,0 m		4,5 m		6,0 m		7,5 m		Max. reach			
														Max. mm	
with 700 mm shoe 2 450 kg CWT Monoblock boom 4,6 m + Arm 2,1 m	6,0 m kg					*3 330	*3 330					*3 510	*3 510	4 880	
	4,5 m kg					*3 480	*3 480					*3 570	2 680	5 970	
	3,0 m kg			*6 230	*6 230	*4 330	4 000	*3 760	2 610			3 450	2 290	6 530	
	1,5 m kg					*5 390	3 780	3 850	2 530			3 260	2 150	6 710	
	0 m kg			*5 180	*5 180	5 780	3 650	3 780	2 470			3 350	2 200	6 530	
	-1,5 m kg	*4 800	*4 800	*9 460	6 640	5 740	3 610						3 790	2 470	5 970
	-3,0 m kg			*8 230	6 760	*5 480	3 680						*4 850	3 290	4 900
with 700 mm shoe 2 450 kg CWT Monoblock boom 4,6 m + Arm 2,5 m	6,0 m kg					*2 830	*2 830					*3 190	3 170	5 390	
	4,5 m kg					*3 070	*3 070	*3 180	2 680			*3 080	2 410	6 380	
	3,0 m kg			*5 300	*5 300	*3 940	*3 940	*3 480	2 610			*3 090	2 090	6 910	
	1,5 m kg			*6 300	*6 300	*5 060	3 780	3 830	2 510			2 990	1 970	7 080	
	0 m kg			*5 770	*5 770	5 750	3 620	3 750	2 430			3 060	2 000	6 910	
	-1,5 m kg	*4 400	*4 400	*9 280	6 530	5 680	3 560	3 710	2 400			3 400	2 210	6 390	
	-3,0 m kg	*8 600	*8 600	*8 670	6 630	5 730	3 590					4 370	2 820	5 400	
with 700 mm shoe 2 450 kg CWT Monoblock boom 4,6 m + Arm 3,0 m	6,0 m kg							*2 790	2 690			*2 720	2 670	6 020	
	4,5 m kg							*2 760	2 690			*2 550	2 110	6 920	
	3,0 m kg					*3 420	*3 420	*3 120	2 610			*2 540	1 850	7 410	
	1,5 m kg			*7 290	6 970	*4 600	3 800	*3 660	2 500	2 720	1 780	*2 670	1 750	7 570	
	0 m kg			*6 230	*6 230	*5 600	3 590	3 710	2 400			2 730	1 770	7 410	
	-1,5 m kg	*3 800	*3 800	*8 380	6 430	5 620	3 490	3 660	2 340			2 980	1 930	6 930	
	-3,0 m kg	*7 040	*7 040	*9 060	6 490	5 630	3 500	3 690	2 370			3 660	2 350	6 030	
with 700 mm shoe 2 450 kg CWT 2-piece boom 4,6 m + Arm 2,1 m	7,5 m kg											*5 360	*5 360	2 900	
	6,0 m kg			*4 610	*4 610	*4 330	4 260					*3 820	3 540	5 010	
	4,5 m kg			*5 230	*5 230	*4 460	4 210	*3 920	2 660			*3 430	2 600	6 070	
	3,0 m kg					*5 160	4 010	3 960	2 610			*3 360	2 230	6 620	
	1,5 m kg					*5 920	3 780	3 860	2 520			3 200	2 100	6 800	
	0 m kg					5 790	3 630	3 780	2 450			3 280	2 140	6 630	
	-1,5 m kg			*8 320	6 600	5 740	3 590	3 780	2 450			3 710	2 410	6 080	
with 700 mm shoe 2 450 kg CWT 2-piece boom 4,6 m + Arm 2,5 m	7,5 m kg			*4 700	*4 700							*3 990	*3 990	3 740	
	6,0 m kg			*3 990	*3 990	*3 890	*3 890					*3 080	3 050	5 530	
	4,5 m kg			*3 960	*3 960	*4 100	*4 100	*3 780	2 680			*2 810	2 330	6 500	
	3,0 m kg			*6 830	*6 830	*4 830	4 040	3 960	2 610			*2 750	2 030	7 020	
	1,5 m kg					*5 680	3 780	3 850	2 500			*2 850	1 910	7 180	
	0 m kg			*5 230	*5 230	5 760	3 600	3 750	2 420			2 990	1 940	7 020	
	-1,5 m kg			*8 760	6 490	5 680	3 530	3 720	2 390			3 330	2 150	6 510	
with 700 mm shoe 2 450 kg CWT 2-piece boom 4,6 m + Arm 3,0 m	7,5 m kg			*3 750	*3 750	*3 450	*3 450					*3 100	*3 100	4 640	
	6,0 m kg					*3 370	*3 370	*3 010	2 700			*2 530	*2 530	6 160	
	4,5 m kg			*2 850	*2 850	*3 600	*3 600	*3 430	2 710			*2 330	2 040	7 050	
	3,0 m kg					*4 390	4 090	*3 720	2 620	*2 430	1 810	*2 280	1 790	7 520	
	1,5 m kg					*5 330	3 800	3 840	2 490	2 730	1 770	*2 350	1 700	7 680	
	0 m kg					5 750	3 580	3 720	2 380	2 690	1 730	*2 530	1 720	7 530	
	-1,5 m kg	*3 460	*3 460	*7 910	6 390	5 620	3 470	3 660	2 330			2 920	1 880	7 050	

- 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 and direct injection
2-stage air filter with indicator, including 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
Battery master switch
Engine restart prevention circuit
High capacity halogen lights:
– Frame mounted 2
– Boom mounted 2
Batteries, 2 x 12 V / 100 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 cushions
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, 2 450 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 each
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
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

LC: 500 / 600 / 700 / 750 mm track shoes with triple grousers
LCM: 600 / 700 / 800 / 900 mm track shoes with triple grousers

Digging equipment

Boom: 4,6 m monoblock
4,6 m 2-piece
Arm: 2,1 / 2,5 / 3,0 m

Undercarriage

LC (Long crawler)
LCM

OPTIONAL EQUIPMENT (Standard in certain markets)

Engine

Block heater, 240 V
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, S6 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

Front dozer blade (for LC only)

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

Ref. 21 2 435 1640
Printed in Korea 2002.09-1
Volvo, Seoul

English, global
KOR