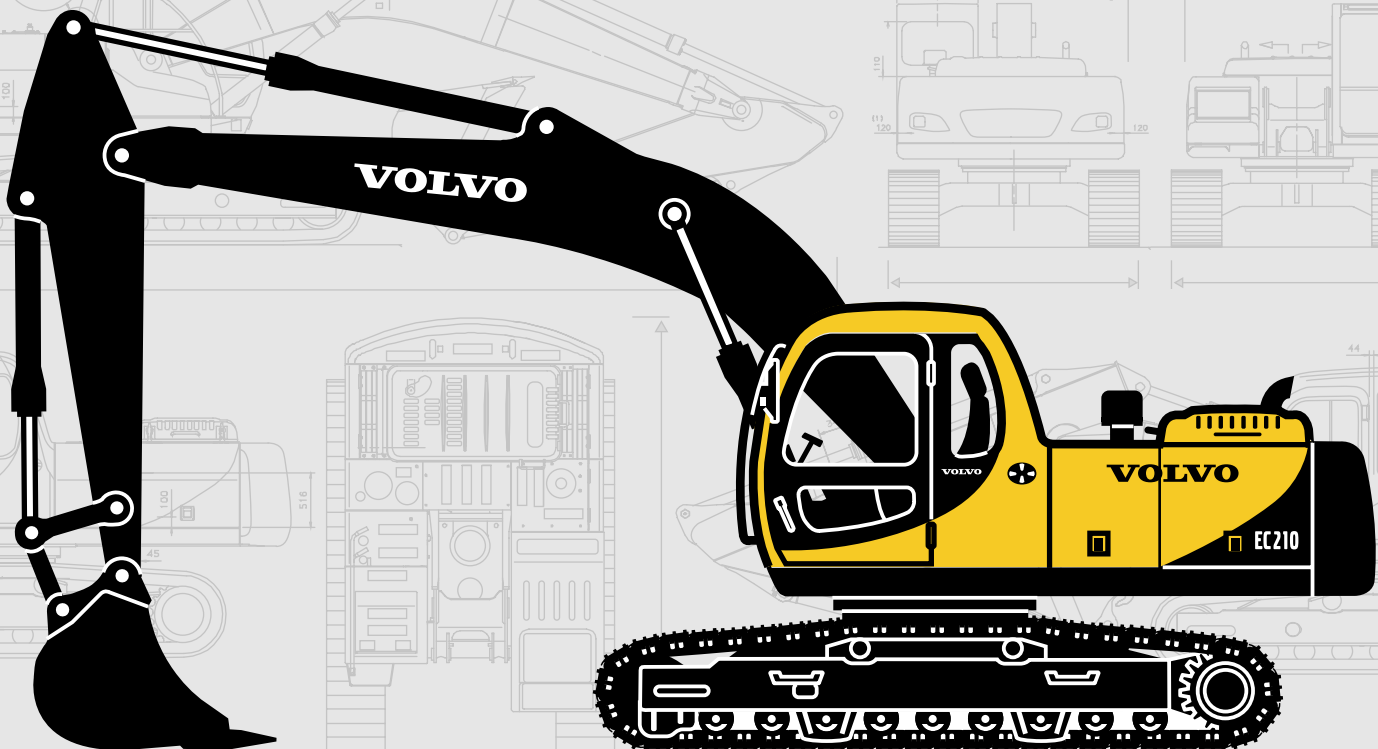


VOLVO EXCAVATOR

EC210

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



- Engine power, gross:
119 kW (160 hp)
Operating weight:
 - LC : 20.5 ~ 21.9 t
 - NLC : 20.4 ~ 21.2 t
- Buckets (SAE):
950 ~ 1250 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 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, direct injection and aftercooler, 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	B5.9-C
Power output at	32 r/s (1900 rpm)
Net (ISO 9249/DIN 6271)	107 kW (145 ps / 143 hp)
Gross (SAE J1349).....	119 kW (162 ps / 160 hp)
Max. torque	618 N·m (63 kg·m)
	at 1500 rpm
No. of cylinders	6
Displacement	5.9 l
Bore	102 mm
Stroke	120 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.....	150 Ah
Alternator	24 V / 50 A



SERVICE REFILL CAPACITIES

Fuel tank	350 l
Hydraulic system, total	285 l
Hydraulic tank	170 l
Engine oil	24 l
Engine coolant	26.5 l
Swing reduction unit	6 l
Travel reduction units	2 X 5.8 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 11.6 rpm



UNDERCARRIAGE

The undercarriage has an X-shaped frame.

The greased and sealed track chain is standard.

No. of track pads	
LC	2 X 49
NLC	2 X 46
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	
LC	2 X 9
NLC	2 X 7
No. of upper 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 travel motors, brake and planetary gears are well-protected in the track frame.

Max. tractive effort	183.4 kN
	(18.7 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 200 l/min

Pilot pump:

Type Gear pump
Maximum flow 19 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 125 mm X 1235 mm
2nd boom of 2-piece boom 1
bore X stroke \varnothing 160 mm X 1070 mm
Arm 1
bore X stroke \varnothing 135 mm X 1540 mm
Bucket 1
bore X stroke \varnothing 120 mm X 1060 mm
Bucket, extra short arm 1
bore X stroke \varnothing 130 mm X 1005 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)	103 dB(A)
Operator's position (ISO 6396)	
with the door closed	
mean value of L _{PA} (sound pressure level)	75 dB(A)



GROUND PRESSURE

- Long crawler machine with 5.7 m boom, 2.9 m arm, 920 l (740 kg) bucket and 3500 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	20500 kg	42.2 kPa (0.43 kg/cm ²)	2990 mm
	700 mm	20780 kg	37.3 kPa (0.38 kg/cm ²)	3090 mm
	800 mm	21060 kg	32.4 kPa (0.33 kg/cm ²)	3190 mm
	900 mm	21340 kg	29.4 kPa (0.30 kg/cm ²)	3290 mm
Rubber pad	600 mm	21280 kg	43.2 kPa (0.44 kg/cm ²)	2990 mm
Swamp shoe	910 mm	21420 kg	29.4 kPa (0.30 kg/cm ²)	3300 mm

- Long crawler machine with 5.7 m boom, 2.9 m arm, 920 l (740 kg) bucket and 4000 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	21000 kg	43.2 kPa (0.44 kg/cm ²)	2990 mm
	700 mm	21280 kg	38.2 kPa (0.39 kg/cm ²)	3090 mm
	800 mm	21560 kg	33.1 kPa (0.34 kg/cm ²)	3190 mm
	900 mm	21840 kg	30.1 kPa (0.31 kg/cm ²)	3290 mm
Rubber pad	600 mm	21780 kg	44.2 kPa (0.45 kg/cm ²)	2990 mm
Swamp shoe	910 mm	21920 kg	30.1 kPa (0.31 kg/cm ²)	3300 mm

- Narrow long crawler machine with 5.7 m boom, 2.9 m arm, 920 l (740 kg) bucket and 4000 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	20410 kg	45.7 kPa (0.47 kg/cm ²)	2800 mm
	700 mm	20680 kg	39.7 kPa (0.40 kg/cm ²)	2900 mm
	800 mm	20930 kg	35.1 kPa (0.36 kg/cm ²)	3000 mm
	900 mm	21200 kg	31.6 kPa (0.32 kg/cm ²)	3100 mm
Rubber pad	600 mm	21050 kg	46.4 kPa (0.47 kg/cm ²)	2800 mm

BUCKET & ARM COMBINATION

● Volvo GP bucket (curved side) and 3500 kg / 4000 kg * counterweight.

Bucket		Direct fit - GP bucket			Quick fit - GP bucket	
Bucket capacity (SAE / CECE)		950 / 860 l	1100 / 990 l	1250 / 1120 l	950 / 860 l	1100 / 990 l
Cutting width		1050 mm	1200 mm	1300 mm	1050 mm	1200 mm
Weight		765 kg	815 kg	880 kg	715 kg	760 kg
No. of teeth		4	4	5	4	4
Arm options	1.8 m	◎/◎*	○/◎*	□/○*	◎/◎*	○/◎*
	2.3 m	◎/◎*	○/○*	□/□*	◎/◎*	□/○*
	2.9 m	○/◎*	□/□*	△/□*	○/○*	□/□*
	3.9 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 sizes for direct fit buckets:

Long crawler machine with counterweight: 3500 kg / 4000 kg *

Description	unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
GP bucket 1.5 t/m ³	l	1600 / 1725 *	1475 / 1575 *	1325 / 1425 *	1150 / 1225 *
GP bucket 1.8 t/m ³	l	1400 / 1500 *	1275 / 1375 *	1175 / 1250 *	1000 / 1075 *
RB bucket 1.8 t/m ³	l	1300 / 1375 *	1175 / 1275 *	1075 / 1150 *	925 / 1000 *
RB bucket 2.0 t/m ³	l	1200 / 1275 *	1100 / 1175 *	1000 / 1075 *	850 / 925 *

● Max. permitted sizes for quick fit buckets:

Long crawler machine with counterweight: 3500 kg / 4000 kg *

Description	unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
GP bucket 1.5 t/m ³	l	1550 / 1650 *	1400 / 1525 *	1275 / 1375 *	1075 / 1175 *
GP bucket 1.8 t/m ³	l	1350 / 1450 *	1225 / 1325 *	1100 / 1200 *	950 / 1025 *
RB bucket 1.8 t/m ³	l	1250 / 1325 *	1125 / 1225 *	1025 / 1100 *	875 / 950 *
RB bucket 2.0 t/m ³	l	1150 / 1250 *	1050 / 1125 *	950 / 1025 *	800 / 875 *

● Max. permitted sizes for direct fit buckets:

Narrow long crawler machine with counterweight: 4000 kg

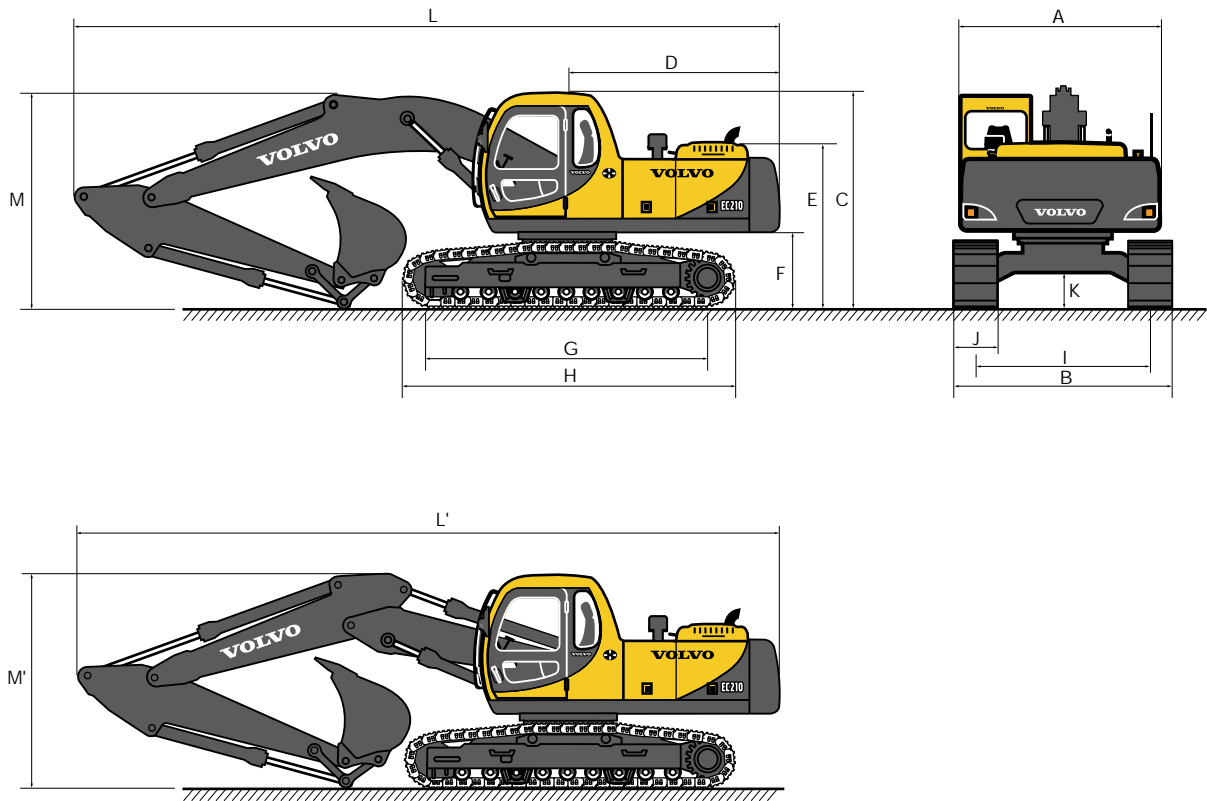
Description	unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
GP bucket 1.5 t/m ³	l	1525	1400	1275	1100
GP bucket 1.8 t/m ³	l	1350	1225	1125	950
RB bucket 1.8 t/m ³	l	1250	1125	1025	875
RB bucket 2.0 t/m ³	l	1150	1050	950	825

● Max. permitted sizes for quick fit buckets:

Narrow long crawler machine with counterweight: 4000 kg

Description	unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
GP bucket 1.5 t/m ³	l	1475	1350	1225	1025
GP bucket 1.8 t/m ³	l	1300	1175	1075	900
RB bucket 1.8 t/m ³	l	1200	1075	975	825
RB bucket 2.0 t/m ³	l	1100	1000	900	775

DIMENSIONS

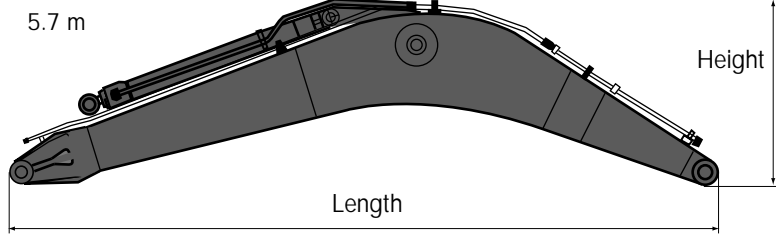


Arm	unit	1.8 m		2.3 m		2.9 m		3.9 m	
		LC	NLC	LC	NLC	LC	NLC	LC	NLC
A. Overall width of upper structure	mm	2710	2710	2710	2710	2710	2710	2710	2710
B. Overall width	mm	2990	2800	2990	2800	2990	2800	2990	2800
C. Overall height of cab	mm	2900	2900	2900	2900	2900	2900	2900	2900
D. Tail swing radius	mm	2850	2850	2850	2850	2850	2850	2850	2850
E. Overall height of engine hood	mm	2275	2275	2275	2275	2275	2275	2275	2275
F. Counterweight clearance*	mm	1025	1025	1025	1025	1025	1025	1025	1025
G. Tumbler length	mm	3660	3370	3660	3370	3660	3370	3660	3370
H. Track length	mm	4460	4170	4460	4170	4460	4170	4460	4170
I. Track gauge	mm	2390	2200	2390	2200	2390	2200	2390	2200
J. Shoe width	mm	600	600	600	600	600	600	600	600
K. Min. ground clearance*	mm	460	460	460	460	460	460	460	460
L. Overall length	mm	9810	9810	9750	9750	9690	9690	9670	9670
L'. Overall length	mm	9670	9670	9610	9610	9570	9570	9470	9470
M. Overall height of boom	mm	3150	3150	3120	3120	3000	3000	3590	3590
M'. Overall height of boom	mm	3040	3040	3040	3040	2960	2960	3630	3630

LC : Long crawler
 NLC : Narrow long crawler
 * Without shoe grouser

DIMENSIONS

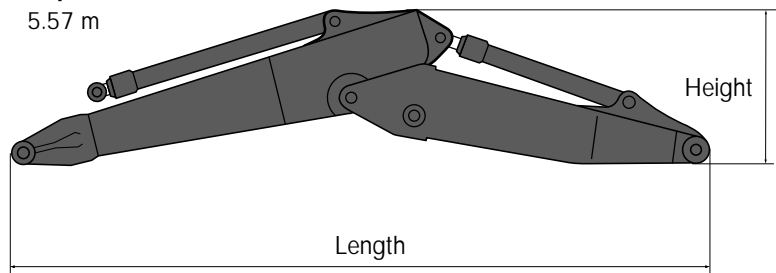
● Monobloc boom



Description	5.7 m
Length	5910 mm
Height	1585 mm
Width	670 mm
Weight *	1740 kg

* Includes cylinder, piping and pin

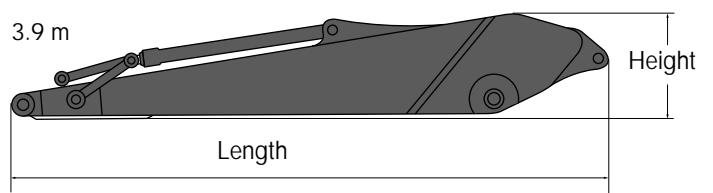
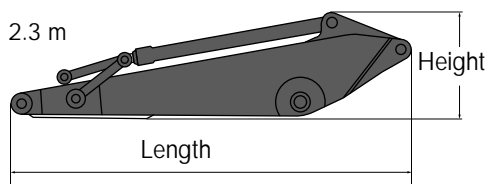
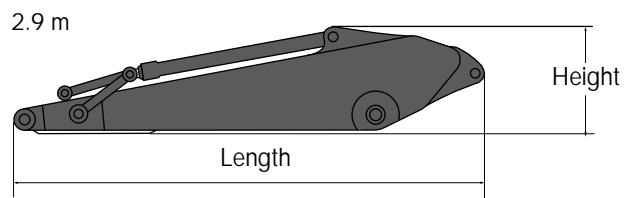
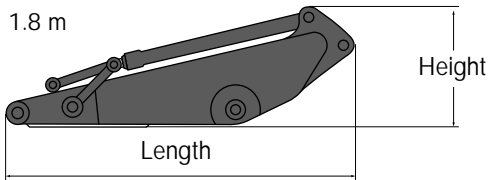
● 2-piece boom



Description	5.57 m
Length	5780 mm
Height	1570 mm
Width	670 mm
Weight *	2080 kg

* Includes cylinder, piping and pins

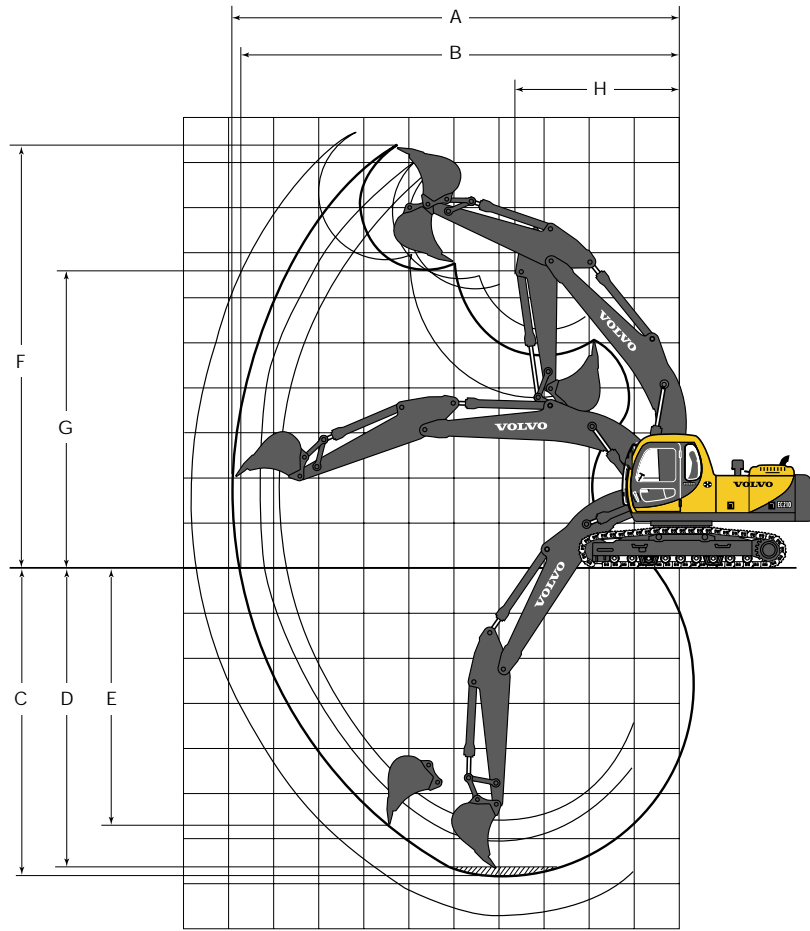
● Arm



Description	1.8 m	2.3 m	2.9 m	3.9 m
Length	2880 mm	3310 mm	3900 mm	4940 mm
Height	1000 mm	880 mm	880 mm	820 mm
Width	440 mm	440 mm	440 mm	440 mm
Weight *	880 kg	895 kg	970 kg	1120 kg

* Includes cylinder, linkage and pins

WORKING RANGES

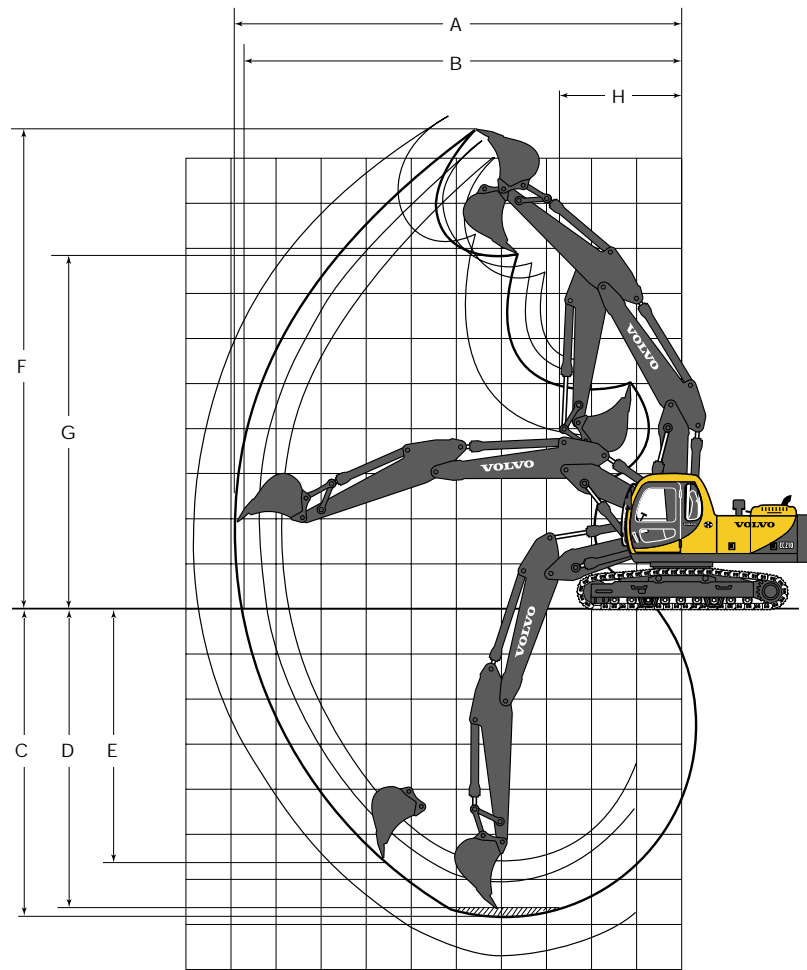


● 5.7 m monobloc boom with direct fit bucket

Description	unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
A. Max. digging reach	mm	8930	9410	9940	10760
B. Max. digging reach on ground	mm	8740	9230	9750	10610
C. Max. digging depth	mm	5630	6130	6730	7730
D. Max. digging depth (8° level)	mm	5320	5910	6510	7550
E. Max. vertical wall digging depth	mm	4230	5370	5830	6570
F. Max. cutting height	mm	8830	9230	9450	9620
G. Max. dumping height	mm	6110	6410	6650	6830
H. Min. front swing radius	mm	3920	3640	3650	3650

Digging forces with direct fit bucket:		unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
Bucket tip radius		mm	1470	1470	1470	1470
Breakout force-bucket (Normal / Power boost)	SAE	kN (ton)	138.3 / 151.1 (14.1 / 15.4)	118.7 / 129.5 (12.1 / 13.2)	118.7 / 129.5 (12.1 / 13.2)	118.7 / 129.5 (12.1 / 13.2)
	ISO	kN (ton)	157.0 / 171.7 (16.0 / 17.5)	134.4 / 147.2 (13.7 / 15.0)	134.4 / 147.2 (13.7 / 15.0)	134.4 / 147.2 (13.7 / 15.0)
Tearout force-arm (Normal / Power boost)	SAE	kN (ton)	146.2 / 159.9 (14.9 / 16.3)	113.8 / 124.6 (11.6 / 12.7)	94.2 / 103.0 (9.6 / 10.5)	78.5 / 86.3 (8.0 / 8.8)
	ISO	kN (ton)	152.1 / 166.8 (15.5 / 17.0)	118.7 / 129.5 (12.1 / 13.2)	96.1 / 105.0 (9.8 / 10.7)	80.4 / 88.3 (8.2 / 9.0)
Rotation angle, bucket		°	158°	177°	177°	175°

WORKING RANGES



● 5.57 m 2-piece boom with direct fit bucket













Description	unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
A. Max. digging reach	mm	8820	9310	9840	10680
B. Max. digging reach on ground	mm	8640	9130	9680	10530
C. Max. digging depth	mm	5220	5720	6300	7240
D. Max. digging depth (8' level)	mm	5100	5610	6200	7150
E. Max. vertical wall digging depth	mm	3990	4770	5320	6180
F. Max. cutting height	mm	9900	10330	10710	11180
G. Max. dumping height	mm	7010	7400	7780	8270
H. Min. front swing radius	mm	2930	2750	2470	2830

Digging forces with direct fit bucket:		unit	1.8 m Arm	2.3 m Arm	2.9 m Arm	3.9 m Arm
Bucket tip radius		mm	1470	1470	1470	1470
Breakout force-bucket (Normal / Power boost)	SAE	kN (ton)	138.3 / 151.1 (14.1 / 15.4)	118.7 / 129.5 (12.1 / 13.2)	118.7 / 129.5 (12.1 / 13.2)	118.7 / 129.5 (12.1 / 13.2)
	ISO	kN (ton)	157.0 / 171.7 (16.0 / 17.5)	134.4 / 147.2 (13.7 / 15.0)	134.4 / 147.2 (13.7 / 15.0)	134.4 / 147.2 (13.7 / 15.0)
Tearout force-arm (Normal / Power boost)	SAE	kN (ton)	146.2 / 159.9 (14.9 / 16.3)	113.8 / 124.6 (11.6 / 12.7)	94.2 / 103.0 (9.6 / 10.5)	78.5 / 86.3 (8.0 / 8.8)
	ISO	kN (ton)	152.1 / 166.8 (15.5 / 17.0)	118.7 / 129.5 (12.1 / 13.2)	96.1 / 105.0 (9.8 / 10.7)	80.4 / 88.3 (8.2 / 9.0)
Rotation angle, bucket		°	158°	177°	177°	175°

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.

EC210 long crawler (Shoe 600 mm, Counterweight 3500 kg)













 Across undercarriage  Along undercarriage	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 5.7 m + Arm 1.8 m	7.5 m									*6350	*6350	4679
	6 m					4810	*6050			4660	*6070	6110
	4.5 m			7250	*7620	4690	*6340			3730	5780	6932
	3 m					4480	7080			3320	5170	7356
	1.5 m					4280	6860			3180	4990	7453
	0 m					4180	6750			3270	5150	7237
	-1.5 m			6270	*10570	4180	6750			3650	5800	6677
	-3 m	*12190	*12190	6420	*9230					4670	*7110	5667
-4.5 m												
Monobloc boom 5.7 m + Arm 2.3 m	7.5 m									*5690	*5690	5417
	6 m					4910	*5480			4090	*5570	6688
	4.5 m			*6970	*6970	4770	*5940			3380	5210	7444
	3 m			6880	*8880	4550	*6750	3260	5060	3040	4720	7840
	1.5 m			6450	*10460	4340	6920	3170	4960	2920	4570	7931
	0 m			6270	10710	4200	6770	3110	4890	2990	4690	7729
	-1.5 m	*9520	*9520	6250	10690	4170	6730			3280	5180	7208
	-3 m	12430	*13560	6360	*9860	4250	6820			4010	6390	6286
-4.5 m			6660	*7190					6210	*6690	4727	
Monobloc boom 5.7 m + Arm 2.9 m	7.5 m					*4940	*4940			*4470	*4470	6172
	6 m					*4840	*4840			3580	*4170	7309
	4.5 m					4850	*5390	3390	*5090	3030	*4110	8005
	3 m			7050	*8030	4610	*6270	3290	5090	2750	*4220	8374
	1.5 m			6550	*9840	4370	6960	3170	4960	2650	4140	8460
	0 m	*4930	*4930	6270	10720	4190	6770	3080	4870	2690	4230	8271
	-1.5 m	*9380	*9380	6190	10620	4120	6680	3050	4830	2900	4590	7786
	-3 m	12200	*14820	6250	*10350	4150	6710			3430	5440	6944
-4.5 m	*12060	*12060	6450	*8570					4770	*6560	5579	
Monobloc boom 5.7 m + Arm 3.9 m	7.5 m									*3390	*3390	7272
	6 m							3550	*4050	2980	*3240	8256
	4.5 m							3470	*4310	2580	*3230	8877
	3 m			*6460	*6460	4730	*5350	3340	*4800	2360	*3330	9210
	1.5 m	*8150	*8150	6740	*8550	4430	*6410	3180	4990	2270	*3540	9288
	0 m	*6940	*6940	6300	*10080	4190	6780	3050	4840	2280	3620	9116
	-1.5 m	*9120	*9120	6090	10520	4040	6610	2960	4750	2420	3850	8680
	-3 m	11760	*12770	6050	10470	4000	6560	2950	4730	2740	4380	7936
-4.5 m	12020	*14300	6150	*9810	4070	6640			3470	5570	6779	
-6 m	*10660	*10660	6450	*7300					5680	*6510	4917	

- Notes : 1. Machine in "Fine Mode-F" (Power Boost), 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.

EC210 long crawler (Shoe 600 mm, Counterweight 4000 kg)













 Across undercarriage  Along undercarriage	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 5.7 m + Arm 1.8 m	7.5 m									*6350	*6350	4679
	6 m					5110	*6050			4950	*6070	6110
	4.5 m			*7620	*7620	4990	*6340			3980	*6080	6932
	3 m					4780	*7080			3550	5470	7356
	1.5 m					4590	7250			3410	5280	7453
	0 m					4480	7140			3510	5450	7237
	- 1.5 m			6710	*10570	4480	7140			3910	6130	6677
	- 3 m	*12190	*12190	6860	*9230					4990	*7110	5667
Monobloc boom 5.7 m + Arm 2.3 m	7.5 m									*5690	*5690	5417
	6 m					5210	*5480			4350	*5570	6688
	4.5 m			*6970	*6970	5070	*5940			3610	5500	7444
	3 m			7320	*8880	4850	*6750	3490	5350	3260	4990	7840
	1.5 m			6890	*10460	4640	7310	3400	5250	3140	4830	7931
	0 m			6710	*11060	4500	7160	3340	5180	3210	4970	7729
	- 1.5 m	*9520	*9520	6700	*10860	4470	7120			3520	5480	7208
	- 3 m	13260	*13560	6800	*9860	4550	7210			4290	*6730	6286
Monobloc boom 5.7 m + Arm 2.9 m	7.5 m					*4940	*4940			*4470	*4470	6172
	6 m					*4840	*4840			3820	*4170	7309
	4.5 m					5150	*5390	3620	*5090	3240	*4110	8005
	3 m			7500	*8030	4910	*6270	3520	5380	2950	*4220	8374
	1.5 m			6990	*9840	4670	*7190	3400	5250	2840	4380	8460
	0 m	*4930	*4930	6710	*10840	4490	7160	3310	5150	2890	4480	8271
	- 1.5 m	*9380	*9380	6630	*10990	4420	7070	3280	5120	3120	4860	7786
	- 3 m	13020	*14820	6690	*10350	4450	7100			3680	5760	6944
Monobloc boom 5.7 m + Arm 3.9 m	7.5 m									*3390	*3390	7272
	6 m							3780	*4050	3180	*3240	8256
	4.5 m							3700	*4310	2770	*3230	8877
	3 m			*6460	*6460	5030	*5350	3560	*4800	2540	*3330	9210
	1.5 m	*8150	*8150	7180	*8550	4730	*6410	3410	4990	2450	*3540	9288
	0 m	*6940	*6940	6740	*10080	4490	7170	3270	4840	2460	3840	9116
	- 1.5 m	*9120	*9120	6530	*10790	4340	7000	3190	4750	2610	4090	8680
	- 3 m	12590	*12770	6490	*10730	4300	6950	3180	4730	2950	4650	7936
- 4.5 m	12850	*14300	6590	*9810	4370	7030			3720	5900	6779	
- 6 m	*10660	*10660	6890	*7300					6070	*6510	4917	

- 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 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.

EC210 long crawler (Shoe 600 mm, Counterweight 4000 kg)













 Across undercarriage  Along undercarriage	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 5.57 m + Arm 1.8 m	7.5 m			8120	*8580					8100	*8580	4505
	6 m	*10860	*10860	8110	*8430					5060	*7370	5979
	4.5 m			7670	*9360	4940	*7470			4020	6230	6817
	3 m					4720	7450			3570	5550	7248
	1.5 m					4510	7220			3420	5350	7347
	0 m			6570	*10240	4410	7100			3520	5550	7128
	-1.5 m			6620	*8690	4420	*6630			3960	*5680	6557
	-3 m											
2-piece boom 5.57 m + Arm 2.3 m	7.5 m			*7770	*7770					6370	*6940	5265
	6 m			*7880	*7880	5170	*6890			4420	*6270	6566
	4.5 m			7870	*8860	5030	*7180			3630	5590	7335
	3 m			7280	*10200	4790	7540	3430	5310	3260	5060	7737
	1.5 m			6800	*10980	4570	7280	3340	5210	3130	4890	7830
	0 m			6600	*10660	4430	7120	3280	5150	3210	5030	7625
	-1.5 m	*10180	*10180	6590	*9420	4400	7090			3540	*5470	7096
	-3 m			6730	*7130	4520	*5020			4380	*4680	6157
2-piece boom 5.57 m + Arm 2.9 m	7.5 m			*6390	*6390	*4660	*4660			*5570	*5570	4044
	6 m			*6440	*6440	5280	*6360			*4490	*4490	6042
	4.5 m	*8290	*8290	8070	*8150	5120	*6750	3560	5470	3860	*4140	7200
	3 m			7470	*9610	4860	*7360	3460	5350	3250	*4060	7906
	1.5 m			6920	*10730	4600	7330	3340	5220	2950	*4140	8280
	0 m	*5400	*5400	6610	*10870	4420	7120	3250	5120	2830	*4400	8366
	-1.5 m	*9860	*9860	6530	*10030	4340	7040	3230	5100	2880	4530	8175
	-3 m	*10490	*10490	6600	*8200	4390	*6090			3130	4930	7685
2-piece boom 5.57 m + Arm 3.9 m	7.5 m					*4640	*4640			*3870	*3870	5604
	6 m					*4860	*4860	3750	*4360	*3390	*3390	7169
	4.5 m			*5090	*5090	5300	*5440	3670	*5100	3200	*3220	8165
	3 m	*12160	*12160	7840	*8380	5010	*6670	3520	5440	2760	*3190	8793
	1.5 m	*9430	*9430	7150	*9920	4690	*7400	3360	5250	2530	*3270	9129
	0 m	*7400	*7400	6650	*10730	4420	7140	3220	5100	2430	*3470	9207
	-1.5 m	*9530	*9530	6420	*10570	4270	6960	3130	5000	2450	*3830	9034
	-3 m	12410	*13260	6390	*9450	4230	6920	3130	5000	2600	4130	8594
-4.5 m			6520	*7200	4330	*5190			2960	*4680	7842	
	-6 m								3780	*4190	6668	

- Notes : 1. Machine in "Fine Mode-F" (Power Boost), 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.

EC210 narrow long crawler (Shoe 600 mm, Counterweight 4000 kg)













 Across undercarriage  Along undercarriage	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 5.7 m + Arm 1.8 m	7.5 m									*6350	*6350	4679
	6 m					4600	*6050			4460	*6070	6110
	4.5 m			6880	*7620	4480	*6340			3580	5370	6932
	3 m					4270	6530			3180	4800	7356
	1.5 m					4090	6320			3050	4630	7453
	0 m					3990	6210			3130	4780	7237
	- 1.5 m			5930	9680	3990	6210			3490	5360	6677
	- 3 m	11620	*12190	6070	*9230					4450	6910	5667
- 4.5 m												
Monobloc boom 5.7 m + Arm 2.3 m	7.5 m									5530	*5690	5417
	6 m					4700	*5480			3920	*5570	6688
	4.5 m			*6970	*6970	4560	*5940			3240	4840	7444
	3 m			6520	*8880	4340	6610	3130	4710	2920	4390	7840
	1.5 m			6100	9880	4140	6380	3040	4610	2800	4240	7931
	0 m			5920	9680	4010	6230	2980	4540	2860	4360	7729
	- 1.5 m	*9520	*9520	5910	9660	3970	6190			3140	4800	7208
	- 3 m	11480	*13560	6010	9780	4050	6280			3830	5900	6286
- 4.5 m			6300	*7190					5890	*6690	4727	
Monobloc boom 5.7 m + Arm 2.9 m	7.5 m					4790	*4940			*4470	*4470	6172
	6 m					4790	*4840			3430	*4170	7309
	4.5 m					4640	*5390	3250	4840	2910	*4110	8005
	3 m			6690	*8030	4400	*6270	3150	4730	2640	3980	8374
	1.5 m			6200	*9840	4160	6420	3030	4610	2540	3850	8460
	0 m	*4930	*4930	5930	9690	4000	6230	2950	4510	2570	3930	8271
	- 1.5 m	*9380	*9380	5850	9600	3920	6150	2910	4480	2780	4260	7786
	- 3 m	11250	*14820	5900	9660	3950	6180			3270	5040	6944
- 4.5 m	11590	*12060	6100	*8570					4540	*6560	5579	
Monobloc boom 5.7 m + Arm 3.9 m	7.5 m									*3390	*3390	7272
	6 m							3410	*4050	2860	*3240	8256
	4.5 m							3330	*4310	2480	*3230	8877
	3 m			*6460	*6460	4520	*5350	3200	4790	2270	*3330	9210
	1.5 m	*8150	*8150	6380	*8550	4230	*6410	3040	4630	2170	3330	9288
	0 m	*6940	*6940	5950	9730	3990	6230	2910	4480	2190	3370	9116
	- 1.5 m	*9120	*9120	5740	9490	3840	6070	2830	4390	2310	3580	8680
	- 3 m	10840	*12770	5700	9450	3800	6020	2820	4380	2620	4060	7936
- 4.5 m	11080	*14300	5810	9570	3870	6100			3310	5140	6779	
- 6 m	*10660	*10660	6100	*7300					5390	*6510	4917	

- 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 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.

EC210 narrow long crawler (Shoe 600 mm, Counterweight 4000 kg)

 Across undercarriage  Along undercarriage	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 5.57 m + Arm 1.8 m	7.5 m			7280	*8580					7270	*8580	4505
	6 m	*10860	*10860	7270	*8430					4540	6880	5979
	4.5 m			6850	*9360	4420	6740			3600	5470	6817
	3 m					4210	6500			3180	4860	7248
	1.5 m					4010	6280			3040	4680	7347
	0 m			5780	9570	3910	6160			3130	4840	7128
	-1.5 m			5820	*8690	3920	6180			3520	5470	6557
	-3 m											
2-piece boom 5.57 m + Arm 2.3 m	7.5 m			7520	*7770					5730	*6940	5265
	6 m			7440	*7880	4650	*6890			3970	5970	6566
	4.5 m			7040	*8860	4520	6840			3250	4910	7335
	3 m			6470	*10200	4280	6580	3060	4660	2910	4440	7737
	1.5 m			6010	9840	4060	6340	2970	4560	2790	4280	7830
	0 m			5810	9610	3920	6180	2910	4500	2850	4400	7625
	-1.5 m	*10180	*10180	5800	*9420	3900	6150			3150	4880	7096
	-3 m			5930	*7130	4010	*5020			3890	*4680	6157
2-piece boom 5.57 m + Arm 2.9 m	7.5 m			*6390	*6390	*4660	*4660			*4490	*4490	6042
	6 m			*6440	*6440	4760	*6360			3460	*4140	7200
	4.5 m	*8290	*8290	7230	*8150	4600	*6750	3190	4810	2900	*4060	7906
	3 m			6650	*9610	4350	6660	3090	4700	2630	4010	8280
	1.5 m			6110	9970	4100	6380	2970	4570	2520	3880	8366
	0 m	*5400	*5400	5820	9620	3920	6180	2880	4470	2560	3960	8175
	-1.5 m	*9860	*9860	5740	9530	3840	6100	2860	4450	2780	4310	7685
	-3 m	*10490	*10490	5810	*8200	3890	*6090			3300	*4760	6829
2-piece boom 5.57 m + Arm 3.9 m	7.5 m					*4640	*4640			*3390	*3390	7169
	6 m					*4860	*4860	3370	*4360	2870	*3220	8165
	4.5 m			*5090	*5090	4780	*5440	3290	4930	2460	*3190	8793
	3 m	*12160	*12160	7000	*8380	4490	*6670	3150	4780	2250	*3270	9129
	1.5 m	*9430	*9430	6330	*9920	4180	6480	2990	4600	2150	3340	9207
	0 m	*7400	*7400	5860	9690	3920	6190	2850	4450	2160	3380	9034
	-1.5 m	*9530	*9530	5630	9420	3760	6020	2770	4360	2290	3600	8594
	-3 m	10650	*13260	5600	9380	3730	5980	2770	4360	2620	4110	7842
-4.5 m			5730	*7200	3830	*5190			3340	*4190	6668	
-6 m												

- Notes : 1. Machine in "Fine Mode-F" (Power Boost), 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.

STANDARD EQUIPMENT

Engine

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

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/150Ah
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 area
- 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 joystick
- Control joystick, with 3 switches ea.
- Control joystick, with 5 switches ea.

Superstructure

Counterweight, 3500 kg / 4000 kg

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

Digging equipment

Boom: 5.7 m monobloc
5.57 m 2-piece
Arm: 1.8 / 2.3 / 2.9 / 3.9 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 size
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

Ref. No. 21 3 435 1617
Printed in Korea 2000.09-1
Volvo, Seoul

English, global
KOR