

VOLVO EXCAVATOR

EC290

LONG CRAWLER / NARROW LONG CRAWLER



- Engine power, gross:
160 kW (215 hp)
- Operating weight:
 - LC : 27.8 ~ 29.6 t
 - NLC : 28.2 ~ 29.5 t
- Buckets (SAE):
1200 ~ 1400 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, 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	C8.3-C
Power output at	32 r/s (1900 rpm)
Net (ISO 9249/DIN 6271)	147 kW (200 ps / 197 hp)
Gross (SAE J1349).....	160 kW (218 ps / 215 hp)
Max. torque	873 N·m (89 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.....	470 l
Hydraulic system, total	400 l
Hydraulic tank	200 l
Engine oil	27 l
Engine coolant	32.9 l
Swing reduction unit	11 l
Travel reduction units	2 X 5.5 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 10.8 rpm



UNDERCARRIAGE

The undercarriage has an X-shape frame.

The greased and sealed track chain is standard.

No. of track pads	2 X 50
Link pitch	203 mm
Shoe width, triple grouser	600/700/ 800/900 mm
Shoe width, swamp	900 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 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	230.4 kN (23500 kg)
Max. travel speed (1st/2nd).....	3.3/5.2 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 250 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 140 mm X 1480 mm
Arm 1
bore X stroke \varnothing 150 mm X 1745 mm
Bucket 1
bore X stroke \varnothing 140 mm X 1140 mm



CAB

Easily accessible cab with a wide door is 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 vent holes.

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 6.2 m boom, 3.05 m arm, 1240 l (975 kg) bucket and 4800 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	27800 kg	52.0 kPa (0.53kg/cm ²)	3190 mm
	700 mm	28410 kg	46.1kPa (0.47kg/cm ²)	3290 mm
	800 mm	28750 kg	40.2 kPa (0.41kg/cm ²)	3390 mm
	900 mm	29130 kg	36.3 kPa (0.37kg/cm ²)	3490 mm
Swamp shoe	900 mm	28800 kg	36.3 kPa (0.37kg/cm ²)	3490 mm

- Long crawler machine with 6.2 m boom, 3.05 m arm, 1240 l (975 kg) bucket and 5400 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	28280 kg	53.0 kPa (0.54kg/cm ²)	3190 mm
	700 mm	28890 kg	47.1 kPa (0.48kg/cm ²)	3290 mm
	800 mm	29230 kg	41.2 kPa (0.42kg/cm ²)	3390 mm
	900 mm	29610 kg	37.3 kPa (0.38kg/cm ²)	3490 mm
Swamp shoe	900 mm	29280 kg	37.3 kPa (0.38kg/cm ²)	3490 mm

- Narrow long crawler machine with 6.2 m boom, 3.05 m arm, 1240 l (975 kg) bucket and 5400 kg counterweight.

Description	Shoe width	Operating weight	Ground pressure	Overall width
Triple grouser	600 mm	28180 kg	53.0 kPa (0.54kg/cm ²)	2990 mm
	700 mm	28790 kg	47.1 kPa (0.48kg/cm ²)	3090 mm
	800 mm	29130 kg	41.2 kPa (0.42kg/cm ²)	3190 mm
	900 mm	29510 kg	37.3 kPa (0.38kg/cm ²)	3290 mm
Swamp shoe	900 mm	29180 kg	37.3 kPa (0.38kg/cm ²)	3290 mm

BUCKET & ARM COMBINATION

● Volvo GP bucket (curved side) and 4800 kg / 5400 kg* counterweight.

Bucket		Direct fit - GP bucket			Quick fit - GP bucket	
Bucket capacity (SAE / CECE)		1200 / 1080 l	1300 / 1170 l	1400 / 1260 l	1200 / 1080 l	1300 / 1170 l
Cutting width		1300 mm	1350 mm	1450 mm	1300 mm	1350 mm
Weight		1010 kg	1075 kg	1115 kg	980 kg	1045 kg
No. of teeth		4	5	5	4	5
Arm options	2.55 m	◎/◎*	◎/◎*	◎/◎*	◎/◎*	◎/◎*
	3.05 m	◎/◎*	○/◎*	○/○*	◎/◎*	○/◎*
	4.0 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: 4800 kg / 5400 kg *

Description	unit	2.55 m Arm	3.05 m Arm	4.0 m Arm
GP bucket 1.5 t/m ³	l	1975 / 2125 *	1800 / 1925 *	1525 / 1650 *
GP bucket 1.8 t/m ³	l	1725 / 1850 *	1575 / 1675 *	1350 / 1425 *
RB bucket 1.8 t/m ³	l	1600 / 1700 *	1450 / 1550 *	1225 / 1325 *
RB bucket 2.0 t/m ³	l	1475 / 1575 *	1350 / 1425 *	1150 / 1225 *

● Max. permitted sizes for quick fit buckets:

Long crawler machine with counterweight: 4800 kg / 5400 kg *

Description	unit	2.55 m Arm	3.05 m Arm	4.0 m Arm
GP bucket 1.5 t/m ³	l	1875 / 2025 *	1700 / 1825 *	1425 / 1550 *
GP bucket 1.8 t/m ³	l	1650 / 1775 *	1475 / 1575 *	1250 / 1350 *
RB bucket 1.8 t/m ³	l	1525 / 1625 *	1375 / 1475 *	1150 / 1250 *
RB bucket 2.0 t/m ³	l	1400 / 1500 *	1275 / 1350 *	1075 / 1150 *

● Max. permitted sizes for direct fit buckets:

Narrow long crawler machine with counterweight 5400 kg

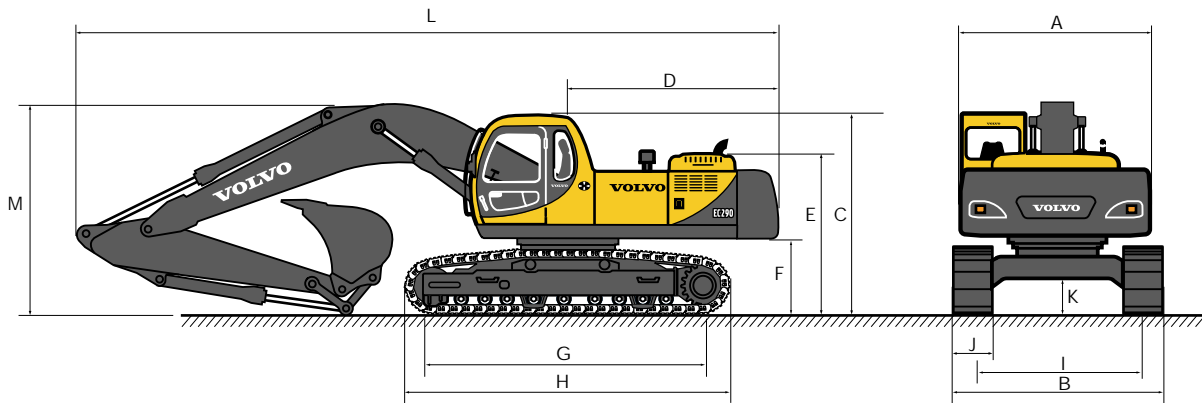
Description	unit	2.55 m Arm	3.05 m Arm	4.0 m Arm
GP bucket 1.5 t/m ³	l	1950	1750	1500
GP bucket 1.8 t/m ³	l	1700	1525	1300
RB bucket 1.8 t/m ³	l	1575	1425	1200
RB bucket 2.0 t/m ³	l	1450	1300	1125

● Max. permitted sizes for quick fit buckets:

Narrow long crawler machine with counterweight 5400 kg

Description	unit	2.55 m Arm	3.05 m Arm	4.0 m Arm
GP bucket 1.5 t/m ³	l	1850	1650	1400
GP bucket 1.8 t/m ³	l	1600	1450	1225
RB bucket 1.8 t/m ³	l	1475	1325	1125
RB bucket 2.0 t/m ³	l	1375	1225	1050

DIMENSIONS



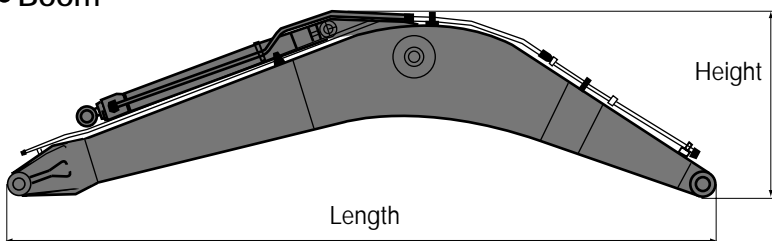
Description	unit	LC			NLC		
		2.55 m Arm	3.05 m Arm	4.0 m Arm	2.55 m Arm	3.05 m Arm	4.0 m Arm
A. Overall width of upper structure	mm	2890	2890	2890	2890	2890	2890
B. Overall width	mm	3190	3190	3190	2990	2990	2990
C. Overall height of cab	mm	3030	3030	3030	3030	3030	3030
D. Tail swing radius	mm	3150	3150	3150	3150	3150	3150
E. Overall height of engine hood	mm	2435	2435	2435	2435	2435	2435
F. Counterweight clearance*	mm	1125	1125	1125	1125	1125	1125
G. Tumbler length	mm	4015	4015	4015	4015	4015	4015
H. Track length	mm	4870	4870	4870	4870	4870	4870
I. Track gauge	mm	2590	2590	2590	2390	2390	2390
J. Shoe width	mm	600	600	600	600	600	600
K. Min. ground clearance*	mm	480	480	480	480	480	480
L. Overall length	mm	10760	10660	10710	10760	10660	10710
M. Overall height of boom	mm	3370	3200	3620	3370	3200	3620

LC : Long crawler

NLC : Narrow long crawler

* Without shoe grouser

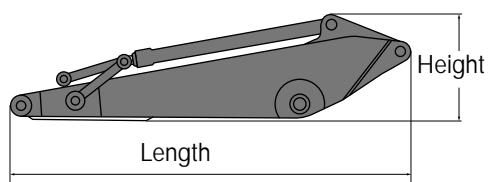
● Boom



Description	6.2 m
Length	6430 mm
Height	1680 mm
Width	770 mm
Weight *	2470 kg

* Includes cylinder, piping and pin

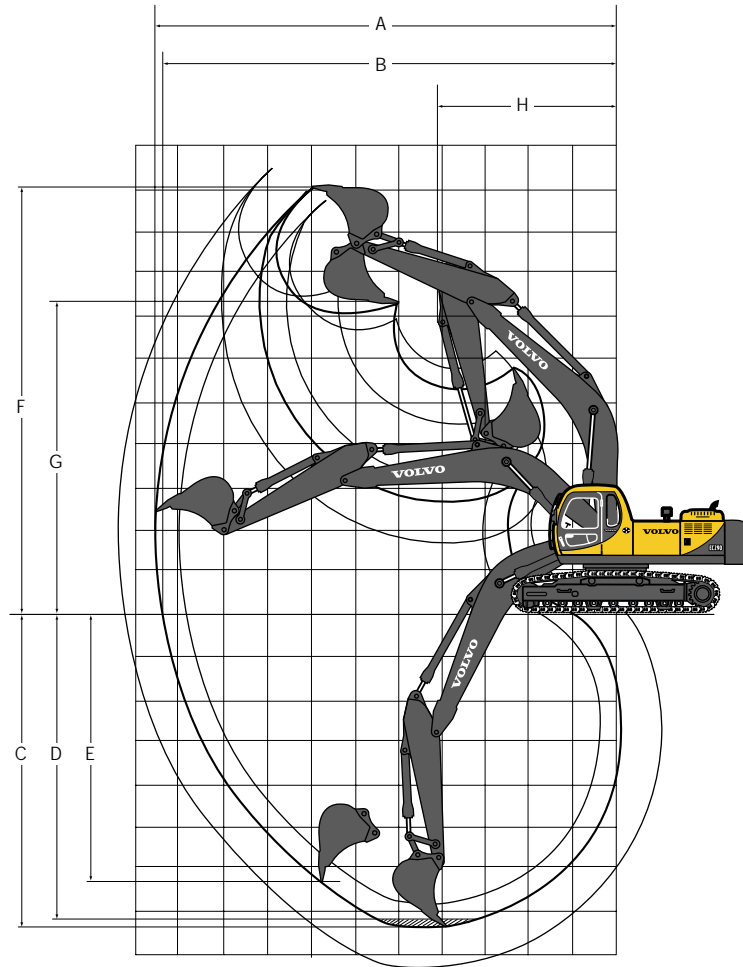
● Arm



Description	2.55 m	3.05 m	4.0 m
Length	3710 mm	4150 mm	5100 mm
Height	965 mm	965 mm	1025 mm
Width	545 mm	545mm	545 mm
Weight *	1415 kg	1490 kg	1710 kg

* Includes cylinder, linkage and pins

WORKING RANGES



● 6.2 m monobloc boom with direct fit bucket



Description	unit	2.55 m Arm	3.05 m Arm	4.0 m Arm
A. Max. digging reach	mm	10160	10690	11575
B. Max. digging reach on ground	mm	9955	10495	11400
C. Max. digging depth	mm	6850	7350	8300
D. Max. digging depth (8' level)	mm	6605	7160	8150
E. Max. vertical wall digging depth	mm	5350	6255	7025
F. Max. cutting height	mm	9610	10020	10445
G. Max. dumping height	mm	6670	7030	7450
H. Min. front swing radius	mm	4170	4130	4245

Digging forces with direct fit bucket:		unit	2.55 m Arm	3.05 m Arm	4.0 m Arm
Bucket tip radius		mm	1600	1600	1600
Breakout force-bucket (Normal / Power boost)	SAE	kN (kg)	157.8 / 172.6 (16090 / 17600)	157.8 / 172.6 (16090 / 17600)	157.8 / 172.6 (16090 / 17600)
	ISO	kN (kg)	181.4 / 198.4 (18500 / 20230)	181.4 / 198.4 (18500 / 20230)	181.4 / 198.4 (18500 / 20230)
Tearout force-arm (Normal / Power boost)	SAE	kN (kg)	145.0 / 158.7 (14790 / 16180)	123.4 / 134.9 (12580 / 13760)	102.3 / 111.9 (10430 / 11410)
	ISO	kN (kg)	152.9 / 167.2 (15590 / 17050)	127.6 / 139.5 (13010 / 14230)	105.0 / 114.8 (10710 / 11710)
Rotation angle, bucket		°	179°	179°	179°

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.

EC290 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		9 m		Max.reach		
		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	Max. mm
Boom 6.2 m + Arm 2.55 m	6 m					7480	*7680	5170	*7510			5130	*7520	7537
	4.5 m			*10790	*10790	7160	*8720	5070	*7800			4400	6970	8173
	3 m			10240	*13800	6780	*10070	4890	7840			4040	6450	8496
	1.5 m			9650	*15870	6450	10750	4720	7650			3910	6300	8542
	0 m			9450	*16450	6260	10520	4610	7520			4000	6480	8317
	-1.5 m	*11480	*11480	9450	*16060	6200	10460	4580	7490			4360	7100	7796
	-3 m	19440	*20020	9590	*14770	6280	10550					5210	8550	6911
	-4.5 m	*16030	*16030	9920	*11950							7440	*9560	5484
Boom 6.2 m + Arm 3.05 m	6 m							5240	*6850			4530	*5550	8133
	4.5 m					7250	*8070	5100	*7290			3950	*5530	8725
	3 m			10460	*12720	6840	*9490	4900	7860	3670	5890	3650	*5710	9028
	1.5 m			9740	*15160	6470	10780	4710	7640	3590	5800	3550	5730	9071
	0 m			9410	*16240	6230	10500	4560	7480			3610	5860	8860
	-1.5 m	*10510	*10510	9340	*16230	6130	10380	4500	7410			3890	6340	8374
	-3 m	*17470	*17470	9430	*15300	6160	10420	4560	7480			4520	7400	7558
	-4.5 m	*18030	*18030	9690	*13100	6370	*9600					6000	*8920	6283
Boom 6.2 m + Arm 4.0 m	6 m							5360	*5750	3860	*4420	3760	*3960	9116
	4.5 m							5190	*6320	3800	*5940	3340	*3960	9646
	3 m			*10570	*10570	6990	*8270	4950	*7140	3680	5910	3110	*4060	9921
	1.5 m			9980	*13500	6550	*9820	4710	7660	3550	5770	3010	*4300	9960
	0 m	*6480	*6480	9420	*15390	6210	10500	4510	7440	3440	5650	3040	*4700	9768
	-1.5 m	*9670	*9670	9180	*16110	6010	10270	4380	7300	3390	5590	3230	5310	9330
	-3 m	*14110	*14110	9150	*15860	5960	10210	4360	7270			3630	5980	8608
	-4.5 m	18860	*20660	9310	*14560	6050	10320	4470	7400			4460	7380	7517
	-6 m	*16340	*16340	9680	*11560							6600	*8330	5852

- 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.

EC290 long crawler (Shoe 600 mm, Counterweight 5400 kg)



 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		9 m		Max.reach		Max. mm
		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
Boom 6.2 m + Arm 2.55 m	6 m					*7680	*7680	5470	*7510			5430	*7520	7537
	4.5 m			*10790	*10790	7570	*8720	5370	*7800			4670	7320	8173
	3 m			10840	*13800	7180	*10070	5200	8230			4300	6780	8496
	1.5 m			10250	*15870	6860	11280	5020	8040			4170	6620	8542
	0 m			10040	*16450	6660	11050	4910	7910			4270	6820	8317
	-1.5 m	*11480	*11480	10050	*16060	6600	10990	4890	7880			4650	7470	7796
	-3 m	*20020	*20020	10190	*14770	6690	11080					5540	8980	6911
	-4.5 m	*16030	*16030	10510	*11950							7890	*9560	5484
Boom 6.2 m + Arm 3.05 m	6 m							5540	*6850			4810	*5550	8133
	4.5 m					7650	*8070	5410	*7290			4210	*5530	8725
	3 m			11050	*12720	7240	*9490	5210	*8010	3920	*5960	3900	*5710	9028
	1.5 m			10330	*15160	6880	*10830	5010	8030	3830	6100	3790	6030	9071
	0 m			10010	*16240	6630	11030	4870	7870			3860	6180	8860
	-1.5 m	*10510	*10510	9940	*16230	6530	10920	4810	7800			4160	6680	8374
	-3 m	*17470	*17470	10030	*15300	6560	10960	4870	7870			4820	7790	7558
	-4.5 m	*18030	*18030	10290	*13100	6780	*9600					6380	*8920	6283
Boom 6.2 m + Arm 4.0 m	6 m							5670	*5750	4100	*4420	*3960	*3960	9116
	4.5 m							5490	*6320	4050	*5940	3570	*3960	9646
	3 m			*10570	*10570	7400	*8270	5250	*7140	3930	6220	3320	*4060	9921
	1.5 m			10580	*13500	6950	*9820	5010	*8020	3800	6070	3230	*4300	9960
	0 m	*6480	*6480	10010	*15390	6610	11030	4810	7820	3690	5960	3270	*4700	9768
	-1.5 m	*9670	*9670	9770	*16110	6420	10810	4690	7690	3630	5890	3460	*5350	9330
	-3 m	*14110	*14110	9750	*15860	6370	10750	4660	7660			3880	6300	8608
	-4.5 m	20010	*20660	9900	*14560	6460	10850	4780	7790			4770	7760	7517
	-6 m	*16340	*16340	10280	*11560							7020	*8330	5852

- 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.

EC290 narrow long crawler (Shoe 600 mm, Counterweight 5400 kg)

 Across under-carriage  Along under-carriage	Lifting hook related to ground level	3 m		4.5 m		6 m		7.5 m		9 m		Max.reach		
		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	Max. mm
Boom 6.2 m + Arm 2.55 m	6 m					7270	*7680	5050	*7510			5000	*7520	7537
	4.5 m			10720	*10790	6960	*8720	4950	*7800			4300	7310	8173
	3 m			9850	*13800	6580	*10070	4770	8210			3950	6760	8496
	1.5 m			9270	*15870	6260	11260	4600	8020			3820	6610	8542
	0 m			9080	*16450	6070	11030	4490	7890			3910	6800	8317
	-1.5 m	*11480	*11480	9080	*16060	6020	10970	4470	7870			4260	7450	7796
	-3 m	18160	*20020	9210	*14770	6100	11060					5070	8960	6911
	-4.5 m	*16030	*16030	9530	*11950							7200	*9560	5484
Boom 6.2 m + Arm 3.05 m	6 m							5110	*6850			4430	*5550	8133
	4.5 m					7040	*8070	4980	*7290			3870	*5530	8725
	3 m			10050	*12720	6640	*9490	4780	*8010	3590	*5960	3570	*5710	9028
	1.5 m			9350	*15160	6280	*10830	4590	8010	3510	6090	3470	6020	9071
	0 m			9040	*16240	6040	11010	4450	7850			3530	6160	8860
	-1.5 m	*10510	*10510	8970	*16230	5940	10890	4390	7780			3800	6660	8374
	-3 m	*17470	*17470	9060	*15300	5980	10930	4450	7850			4410	7770	7558
	-4.5 m	*18030	*18030	9310	*13100	6180	*9600					5830	*8920	6283
Boom 6.2 m + Arm 4.0 m	6 m							5230	*5750	3780	*4420	3680	*3960	9116
	4.5 m							5060	*6320	3720	*5940	3270	*3960	9646
	3 m			10480	*10570	6790	*8270	4830	*7140	3600	6200	3040	*4060	9921
	1.5 m			9590	*13500	6350	*9820	4590	*8020	3470	6060	2950	*4300	9960
	0 m	*6480	*6480	9040	*15390	6020	11010	4390	7810	3370	5940	2980	*4700	9768
	-1.5 m	*9670	*9670	8800	*16110	5830	10790	4270	7670	3310	5880	3150	*5350	9330
	-3 m	*14110	*14110	8780	*15860	5780	10730	4240	7640			3540	6290	8608
	-4.5 m	17600	*20660	8930	*14560	5870	10830	4360	7770			4350	7750	7517
	-6 m	*16340	*16340	9290	*11560							6400	*8330	5852

- 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/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 seal
Auxiliary hydraulic valve
Straight travel circuit
Automatic two-speed travel motors
Hydraulic oil, ISO VG 46

Superstructure

Access way with hand-rail
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 joysticks
- Joysticks, 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
- 900 mm swamp shoe

Superstructure

Counterweight, 4800 kg / 5400 kg

Digging equipment

Boom: 6.2 m monobloc
Arm: 2.55 / 3.05 / 4.0 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 & shears
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 slop & rotator
- Slop & rotator
- Grapple
- Oil leak line
Volvo Hydraulic quick-fit, S2 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.

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