

V O L V O

EC300DL

Volvo Excavators
30.4t - 231hp



Volvo Construction Equipment

A quality new design



New D-series styling

The EC300DL boast new, modern D-series styling consistent with Volvo's product family.



New 1-ECU

The large, color LCDmonitor clearly displays machine status information for easy operation and increased productivity.



ECO Mode

Volvo's unique ECO mode contributes to up to 5% of the machine's total improved fuel efficiency without any loss of performance.



Cab design

All-around visibility, safety, comfort and easy to access controls are at the center of Volvo's operator environment.



Service access

Large doors and engine hood provide easy service access. Centralized filters and greasing points allow regular checks to be done faster.



Improved structure

The boom and arm have been reinforced in critical areas to handle the increased working power of these machines.



Increased power

Benefit from increased power, digging force and faster cycle times for more productivity.



Electro-hydraulic system

Positive electro-hydraulic system and MCV use intelligent technology to control on-demand flow for improved performance and efficiency.



Customer solutions

Volvo provides the right solutions throughout the entire life cycle of your machine to lower total cost of ownership.



Engine D7

Premium Volvo D7 diesel engine built with proven, advanced technology for high performance and low fuel consumption.

New work modes

Volvo's unique work mode system now includes the G4 mode for optimum fuel efficiency and performance.

Optional track guard

When working in harsh environments, heavy-duty, bolt-on, full track roller guards protect the bottom rollers and links from debrisconsumption.

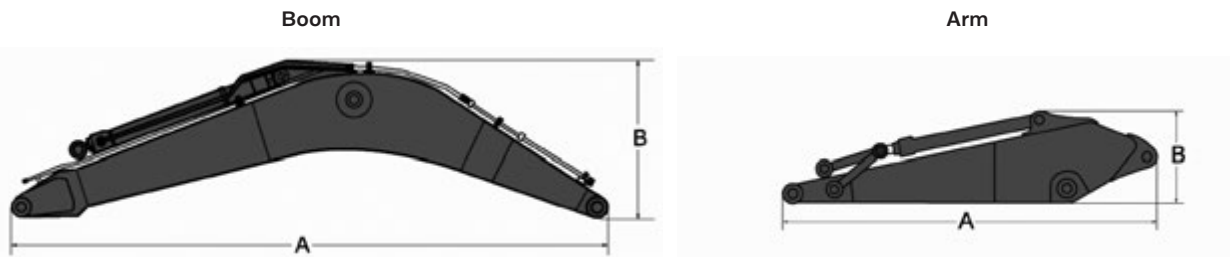
Volvo EC300D in detail

Engine			EC300DL
The Tier 3 engine, which provide excellent performance, is equipped with six cylinder, vertical, electronic-controlled, high pressure, fuel injectors, internal EGR* (*for certain regions), 7 liter in-line waste gate turbo charger, air-to-air intercooler and water cooled diesel type.			
Engine	Volvo		D7
Max. power at	r/s / r / min		30 / 1800
Net ISO 9249/SAEJ1349	kW / hp		169 / 230
Gross, ISO 14396/SAEJ1995	kW / hp		170 / 231
Max. torque	Nm / r / min		1 080 / 1 350
No. of cylinders			6
Displacement	l		7.1
Bore	mm		108
Stroke	mm		130
Electrical System			
Well protected high-capacity electrical system. Waterproof double-lock double-lock harness plugs are used to secure corrosion-free connection. The Main relays and solenoid valves are shielded to prevent damage. The master switch is standard. Advanced monitoring of machine functions and important diagnostic information is displayed on the I-ECU.			
Voltage	V		24
Battery Capacity	V		2 x 12 / 200
Alternator	V/Ah		28/80
Start Motor	V-kW		24-5.5
Swing System			
The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and anti-rebound valve are standard.			
Max. slew speed	r/min		10.7
Max. slew torque	kNm		110.9
Drive			EC300DL
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. travel speed (low / high)	km/h		3.4 / 5.4
Max. drawbar pull	kN		247
Gradeability	°		35
Undercarriage			
The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.			
			EC300DL
Track pads			2 x 50
Link pitch	mm		203
Shoe width, triple grouser (HD)	mm		600
Bottom rollers			2 x 9
Top roller			2 x2
			EC300DLR
Track pads			2 x 50
Link pitch	mm		203
Shoe width, triple grouser	mm		800
Shoe width, double grouser			-
Bottom rollers			2 X 9
Top rollers			2 x 2

Hydraulic System			EC300DL
The positive electro-hydraulic system and new MCV (main control valve) use intelligent technology to control on-demand flow for high-productivity, high-digging capacity and excellent fuel economy. The summation system, boom, arm and swing priority along with boom, arm and bucket regeneration provides 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 excavations.			
Arm priority: Gives priority to the arm operation for faster cycle times in levelling and for increased bucket filling when digging.			
Swing priority: Gives priority to swing 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.			
Main pump, Type 2 x Variable displacement axial piston pumps			
Maximum flow	l/min		2 x 263
Pilot pump, Type Gear pump			
Maximum flow	l/min		1 x 18
Relief valve setting			
Implement	MPa		33.3/36.3
Travel circuit	MPa		36.3
Slew circuit	MPa		27.9
Pilot circuit	Mpa		3.9
Hydraulic cylinders			
Mono boom			2
Bore x Stroke	ø x mm		140 x 1 480
2 piece boom			1
Bore x Stroke	ø x mm		170 x 1 300
Arm			1
Bore x Stroke	ø x mm		150 x 1 745
Bucket			1
Bore x Stroke	ø x mm		140 x 1 140
Bucket for long reach			1
Bore x Stroke	ø x mm		100 x 865
Service Refill capacities			EC300DL
Fuel tank	litr		470
Hydraulic system, total	litr		400
Hydraulic tank	litr		195
Engine oil	litr		32
Engine coolant	litr		41
Slew reduction unit	litr		6
Travel reduction unit	litr		2 x 6.8
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 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 14 vents. Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.			
Sound Level			
Sound level in cab according to ISO 6396			
LpA	dB(A)		71
External sound level according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 +A1:2009			
LwA	dB(A)		105

Specifications

DIMENSIONS



EC300DL							
Description	Unit	XD Boom	XD Boom	Description	Unit	Long Reach Arm	Long Reach Arm
	m	6.2	2.75		m	7.9	10.2
Length (A)	mm	6 430	3 870	Length (A)	mm	9 060	10 430
Height (B)	mm	1 680	1 010	Height (B)	mm	1 065	1 620
Width	mm	770	545	Width	mm	545	770
Weight	kg	2 910	1 590	Weight	kg	1 730	3 410

BUCKET SELECTION GUIDE

Bucket Type	Bucket Type	Capacity	Cutting Width	Tip Radius	Weight	Teeth	EC300DL	EC300DLR
Direct Fit Buckets							600mm Shoe, 5500 kg Counterweight 2.75 m Arm	800mm Shoe, 6800 kg Counterweight 7.9 m Arm
		L	mm	mm	kg	EA		
	General Purpose	570	600	1627	826	3		B
		1 760	1700	1627	1453	6	B	
	Heavy Duty	1270	1450	1856	1320	5	C	
		1400	1370	1692	1610	5	C	
		1600	1684	1662	1502	5	C	

Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application.

The recommendations are given as a guide only, based on typical operation conditions.

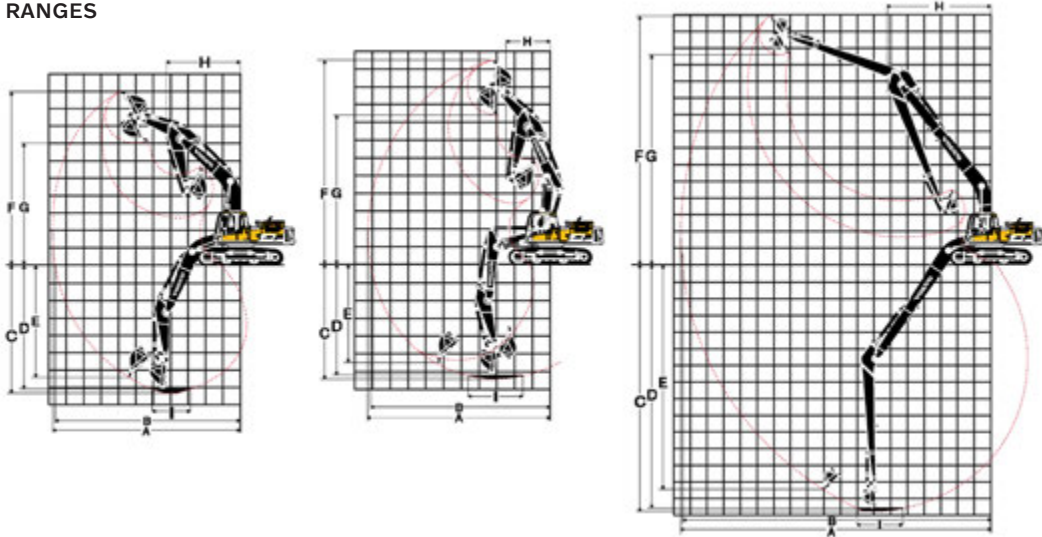
Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density			
A	1200 - 1300 kg/m³	Coal, Caliche, Shale	
B	1400 - 1600 kg/ m³	Wet earth and clay, limestone, sandstone	
C	1700 - 1800 kg / m³	Granite, Wet sand and Well blasted rock	
D	1900 kg / m³	Wet mud, Iron ore	

Specifications

MACHINE WEIGHTS AND GROUND PRESSURE									
EC300DL	6.2m Boom 2.75m Arm 5 500kg counterweight				EC300DLR	10.2m Boom 7.9m Arm 478kg (570l) bucket 6 800kg counterweight			
Description	Shoe width	Operating weight	Ground Pressure	Overall width	Description	Shoe width	Operating weight	Ground Pressure	Overall width
	mm	kg	kPa	mm		mm	kg	kPa	mm
Triple grouser	HD 600	30 440	58.7	3 190	Triple grouser	800	32 320	46.8	3 390

WORKING RANGES



WORKING RANGES

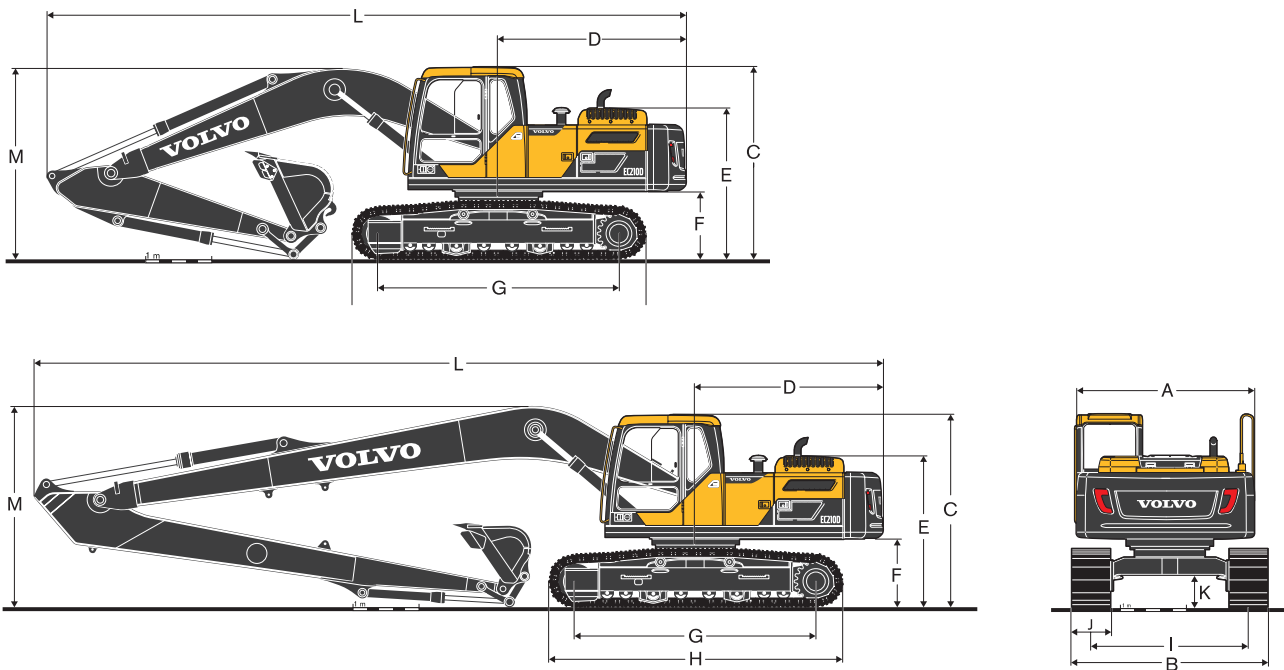
Description		Unit	EC300DL	EC300DLR
Boom		m	6.2 mono	10.2
Arm		m	2.75	7.9
A	Max. digging reach	mm	10 430	18 590
B	Max. digging reach on ground	mm	10 230	18 480
C	Max. digging depth	mm	7 050	14 750
D	Max. digging depth (l =2440 mm level)	mm	6 840	14 650
E	Max. vertical wall digging depth	mm	5 890	13 490
F	Max. cutting height	mm	9 910	14 940
G	Max. dumping height	mm	6 870	12 600
H	Min. front swing radius	mm	4 230	6 190

DIGGING FORCES WITH DIRECT FIT BUCKET

Description			Unit	EC300DL	EC300DLR
Boom			m	6.2 m	10.2
Arm			m	2.75	7.9
Bucket radius			mm	1 600	1 600
Breakout force bucket	Normal	SAEJ1179	kN	168	69.1
	Power boost	SAEJ1179	kN	182	-
	Normal	ISO 6015	kN	188	80.3
	Power boost	ISO 6015	kN	205	-
Tearout force - dipper arm	Normal	SAE J1179	kN	144	51.3
	Power boost	SAE J1179	kN	157	-
	Normal	ISO 6015	kN	148	51.8
	Power boost	ISO 6015	kN	161	-
Rotation angle, bucket			°	179	179

Specifications

DIMENSIONS



Description	Unit	EC300DL	EC300DLR
Boom	m	6.2 mono	10.2
Arm	m	2.75	7.9
A. Overall width of upper structure	mm	2 890	2 890
B. Overall width	mm	3 190	3 190
C. Overall height of the cab	mm	3 090	3 090
D. Tail slew radius	mm	3 120	3 200
E. Overall height of the engine hood	mm	2 510	2 510
F. Counterweight clearance*	mm	1 135	1 135
G. Tumbler length	mm	4 015	4 015
H. Track length	mm	4 870	4 870
I. Track gauge	mm	2 590	2 590
J. Shoe width	mm	600	800
K. Min.ground clearance*	mm	480	480
L. Overall length	mm	10 580	14 640
M. Overall height of boom	mm	3 450	3 240

*Without the shoe grouser

Specifications

LIFTING CAPACITY WITHOUT BUCKET AT THE ARM END																
	Lifting Point	Front	Across	Front	Across	Front	Across	Front	Across	Front	Across	Front	Across	Front		
Boom 6.2m Arm 2.75m Shoe 600mm CWT 5 500kg	kg-m	kgf		kgf		kgf		kgf		kgf		kgf				
		1.5		3		4.5		6		7.5		@Max. reach				
	7.5											*7500	6350	@6.838m		
	6.0							*7650	*7650	*7430	5380	*7350	4970	@7.826m		
	4.5						*10770	*10770	*8740	7490	*7820	5240	6850	4280	@8.434m	
	3.0					*13860	10700	*10170	7020	8110	5020	6340	3920	@8.741m		
	1.5						*16120	9950	11120	6620	7880	4810	6190	3790	@8.78m	
	0.0					*16900	9670	10840	6380	7710	4660	6360	3880	@8.555m		
	-1.5						*12010	*12010	*16630	9640	10750	6300	7670	6950	4220	@8.043m
	-3.0	*15250	*15250	*21230	19990	*15410	9790	10840	6380			8290	5010	@7.182m		
	-4.5						*17210	*17210	*12700	10160					*9420	7000

- NOTES:
1. The above loads are in compliance with SAE and ISO Hydraulic Excavator Lift Capacity Standards.
 2. They do not exceed 87% of hydraulic lifting capacity of 75% of tipping load.
 3. Rated loads marked with an asterisk(*) are limited by hydraulic capacity rather than tipping load.

LIFT POINT
Bucket Pivot

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