

Volvo Compact Excavators 5,4-5,63 t / 11.905-12.412 lb 36,5 kW



Volvo Construction Equipment

A machine you can rely on

Volvo's EC55D high quality compact excavator is designed to work harder for longer. Using high quality components and Volvo design, the machine is built to last while delivering a superior performance and high fuel efficiency. You can rely on a solid investment in the durable EC55D, benefiting from increased uptime and a highly competitive residual value.

Smooth control

Achieve a smooth and comfortable operating experience with the EC55D. You can dig, swing, load and lift with increased controllability, for enhanced productivity and reduced fatigue. The machine does exactly what the operator intends with responsive controls and an optimized hydraulic system to achieve precise grading results for a high quality finish.



Proven reliability

Rely on increased uptime and a highly competitive residual value with the durable EC55D. The robust design of the EC55D incorporates the wrapped-around counterweight to shield the engine compartment, X-shaped undercarriage and heavy-duty arm, to enable a sturdy operation in extreme conditions. Maximum uptime is preserved thanks to easy-access maintenance points, and the new, easy-to-clean single layer cooling system.



A profitable operation

Reduce fuel costs with the EC55D for a more profitable operation. The state-of-the-art hydraulic system is perfectly matched to Volvo's premium Tier 3 engine to deliver high performance and superior fuel efficiency.



Complete comfort and convenience

For comfortable operation and reduced operator fatigue, the EC55D cab offers a spacious and quiet working environment. Built for maximum convenience, the cab features ergonomically located monitor and controls, a fully adjustable seat, and a semilong joystick. Performance of the air conditioning has been increased by 10% to ensure comfortable operation in all climates.





POWER To Perform

Do more in less time with market-leading power, outstanding combined digging efforts and faster digging equipment speed of the EC55D. Tackle challenging job sites with ease thanks to the superior traction, swing force and lifting capacity. For the ultimate combination of power and productivity, improved cooling ensures optimized performance for any climate.

The complete solution

We're committed to providing a complete solution to guarantee the highest performance from your Volvo machine, including high quality attachments and state-of-the-art support through our customer solutions. Take advantage of our unique dealer support network to ensure your machine achieves maximum uptime, and generates maximum profit and growth for your business.

Customer Support Agreements

Customer Support Agreements offer service and maintenance with controlled costs and maximum uptime. The flexible system caters for a range of needs from total repair and maintenance to an inspection program covering vital parts and functions.



Genuine Volvo Parts

Volvo Service Technicians work with industry-leading diagnostic tools and techniques, using only Genuine Volvo Parts to deliver the highest levels of quality and service. Talk to your local Volvo dealer about how genuine Volvo services can provide the service and maintenance plan that best fits your needs.

Customer support centre

Customer Support Agreements offer service and maintenance with controlled costs and maximum uptime. The flexible system caters for a range of needs from total repair and maintenance to an inspection program covering vital parts and functions.







ROBUST ATTACHMENTS TO MATCH

Well-engineered and built to last in tough conditions, Volvo's robust, high quality buckets and hydraulic breakers offer high durability and performance. Specifically made for your Volvo machine, the buckets are reinforced with Volvo teeth and wear parts for longer life, and the range of breaker tools has been developed to break any kind of material with excellent performance.

Lasting performance

Proven reliability

Volvo conducts rigorous testing in the development stages resulting in a durable machine that won't let you down.



Complete comfort and convenience

The spacious and ergonomic EC55D cab ensures a comfortable and productive operation as well as reducing operator fatigue.

Smooth control

Increased controllability ensures smooth operation, improved productivity, and a high quality finish.

Grease can holder

Free up room in the cab with the conveniently-positioned grease can storage to allow for quick periodic greasing.

Proven reliability

Volvo conducts rigorous testing in the development stages resulting in a durable machine that won't let you down.

Robust attachments to match

High quality buckets and hydraulic breakers are specifically made for your Volvo machines to secure high durability.

Power to perform

Do more in less time with market-leading power and outstanding combined digging power and speed of the EC55D.

Single layer cooling unit

The single layer cooling unit maximizes efficiency, reduces blockages and aids cleaning.



The new Volvo D-series styling offers a unique look to differentiate from competitors' designs and previous generations.

Improved air conditioning

Volvo's industry-leading climate control system provides a more comfortable and productive working environment.

Customer Support Agreements

Covering a variety of service and maintenance needs, Customer Support Agreements control costs and maximize uptime.

X-shaped undercarriage

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VOLVO

Durable and strong X-shape undercarriage ensures superior stability and increases machine lifetime.

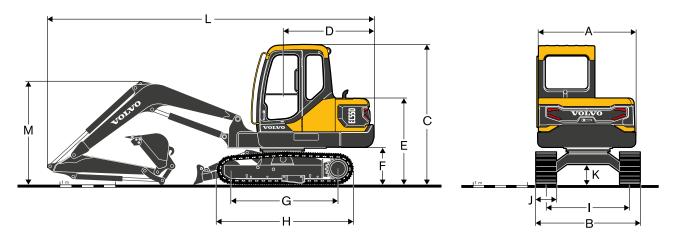
Volvo EC55D in detail

Volvo engine Tier 3 (Stage 3) emissions con The engine uses precise, high pressure fuel		
Model	Volvo	D2.6A
Max. power at	r/min (r/s)	2.000 (33,3)
Net (ISO 9249/SAEJ1349)	kW (hp)	34,5 (46)
Gross (SAE J1995)	kW (hp)	36,5 (49)
Max. torque	Nm (ft lbf)	210 (155)
at engine speed	r/min	1.000
No. of cylinders		4
Displacement	l (in³)	2,62 (160)
Bore	mm (in)	87 (3,4)
Stroke	mm (in)	110 (4,3)
Electrical system		
Voltage	V	12
Batteries	V	1 x 12
Battery capacity	Ah	100
Alternator	V/Ah	12/60
Starter motor output	V - kW	12 - 2,5
Swing system		
Swing provided by radial piston motor and lubrication.	reduction gear	with remote
Max. swing speed	r/min	9
Max. swing torque	kNm (ft lbf)	11 (8.110)
Undercarriage		
The undercarriage has a robust X-shaped fr track chains are standard.	ame. Greased a	nd sealed
Track shoes		2 x 39
Link pitch	mm (in)	135 (5,3)
Shoe width	mm (in)	380 (15)
Bottom rollers		2 x 5
Top rollers		2 x 1
Sound Level		
Sound level in cab according to ISO 6396		
L _{pA}	dB	80
External sound level according to ISO 639 2000/14/EC	5 and EU Noise	Directive

Travel System		
Each track is powered by an automat track brakes are multi-disc, spring-ap travel motor, brake and planetary gea track frame.	plied and hydraulic r	eleased. The
Travel speed low	km/h (mi/h)	2,6 (1,6)
Travel speed high	km/h (mi/h)	4,3 (2,7)
Max. drawbar pull	kN (lbf)	43 (9.670)
Gradeability	o	35
Hydraulic system		
Open-center, horsepower control provid	ing fuel saving and hig	gh performance
Variable-displacement, load-sensing	g pump for all equip	ment:
Maximum flow	l/min (gal/min)	2 x 55 (2 x 14,5)
Maximum operating pressure	MPa (psi)	21,6 (3.130)
Maximum flow	l/min (gal/min)	1 x 32,4 (1 x 8,6)
Maximum operating pressure	MPa (psi)	20.6 (2.990)
Pilot pump (Gear pump) for the pow	er assistance circui	t:
Maximum flow	l/min (gal/min) min)	1 x 9 (1 x 2,4)
Maximum operating pressure	MPa (psi)	3,2 (464)
Swing circuit:		
Maximum operating pressure	MPa (psi)	18,6 (2.700)
Travel circuit:		
Maximum operating pressure	MPa (psi)	20,6 (2.990)
Service Refill		
Fuel tank	l (gal)	100 (26,4)
Hydraulic system, total	l (gal)	130 (34,3)
Hydraulic tank	l (gal)	90 (23,8)
Engine oil	l (gal)	10 (2,64)
Engine coolant	l (gal)	7,8 (2,06)

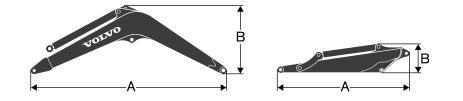
BUCKETS									
Wie	dth	v	Veight			Capa	city		
mm	in	kg	lb		1		gal		
450	17,7	99	218	3	9	98	26		
770	30,3	160	353	3	2	00	53		
MACHINE V	VEIGHTS /	AND GROU	JND PRE	SSUF	RE				
EC55D with 3,03 m (9'11") boom, 1,54 m (5'1") arm, 142 l (160 kg) / 28 gal (353 lb) bucket, 420 kg (926 lb) counterweight									
Description	n Shoe	e width	idth Operating we			veight Ground pressu			
Units	mm	in	kg	ll	c	kPa	psi		
Steel track	380	15	5.510	12.1	147 33,3		4.83		
DIGGING P	ERFORMA	NCE							
Breakout fo		SAE	SAE J1179		lbf		36,2		
Dreakout io	rce - bucke		ISO 6015				41,6		
Toorout for		SAE J1179		lbf		28,8			
Tearout forc	ISO 6	ISO 6015		lbf		29,5			
Rotation an	gle, bucket				•		174		

Specifications



DIN	DIMENSIONS								
Des	cription	U	nit						
А	Overall width of upper structure	mm	ft in	1840	6'0"				
В	Overall width	mm	ft in	1 920	6'4"				
С	Overall height of cab	mm	ft in	2 560	8'5"				
D	Tail swing radius	mm	ft in	1 680	5'6"				
Е	Overall height of engine hood	mm	ft in	1 600	5'3"				
F	Counterweight clearance*	mm	in	690	27"				
G	Tumbler length	mm	ft in	1950	6'5"				
н	Track length	mm	ft in	2 500	8'2"				
1	Track gauge	mm	ft in	1 540	5'1"				
J	Shoe width	mm	in	380	15"				
к	Min. ground clearance*	mm	in	380	15"				
L	Overall length	mm	ft in	5 885	19'4"				
Μ	Overall height of boom	mm	ft in	1865	6'1"				

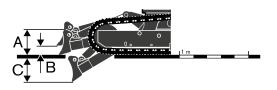
* Without shoe grouser



DIMENSIONS

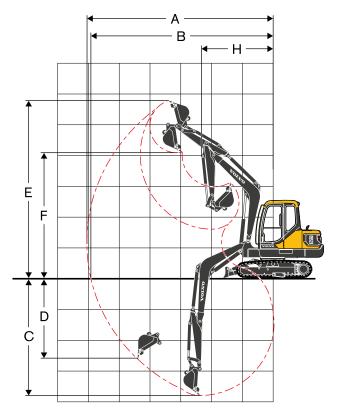
Description	U	nit	Во	om	Arm		
Description	m	ft in	3,03	9'11"	1,54	5'1"	
A Length	mm	ft in	3.136	10'3"	2.040	6'8"	
B Heigth	mm	ft in	1.090	3'7"	463	1'6"	
Width	mm	in	202	7,95	148	5,83	
Weight	kg	lb	210	463	125	276	

Boom: Includes cylinder, piping and pin, excludes boom cyl. Pin Arm: Includes cylinder, linkage and pin



DIMENSIONS								
Des	cription	U	nit	Dozer blade				
А	Height	mm	in	360	14,2			
	Width	mm	ft in	1.920	6'4"			
В	Lifting height	mm	in	350	13,7			
С	Digging depth	mm	in	450	17,7			

Specifications



WORKING RANGES							
Des	cription	U	nit				
А	Max. digging reach	mm	ft in	6.110	20'1"		
В	Max. digging reach on ground	mm	ft in	5.980	19'7"		
С	Max. digging depth	mm	ft in	3.820	12'6"		
D	Max. vertical wall digging depth	mm	ft in	2.620	8'7"		
Е	Max. cutting height	mm	ft in	5.770	18'11"		
F	Max. dumping height	mm	ft in	4.090	13'5"		
G	Min. front swing radius	mm	ft in	2.360	7'9"		

LIFTING CAPACITY EC55D

Lifting capacity at the arm end without bucket. For lifting capacity including bucket. Simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting		1,0 m /	/ 3,3 ft	2,0 m ,	/ 6,6 ft	3,0 m	/ 9,8 ft	4,0 m /	′ 13,1 ft	5,0 m /	′ 16,4 ft	N	Max. reac	h
	hook related to ground level		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max.
	4,0 m	kg							*1.360	1.070			1.300	960	4.248 mm
-	13,1 ft	lb							*2.998	2.359			2.866	2.116	13,9 ft
Boom 3,03 m	3,0 m	kg							*1.410	1.050			1.040	770	4.862 mm
9,8 ft	9,8 ft	lb							*3.109	2.315			2.293	1.698	16,0 ft
Arm	2,0 m	kg					2.140	1.540	1.370	1.010	980	720	930	690	5.171 mm
1,54 m	6,6 ft	lb					4.718	3.395	3.020	2.227	2.161	1.587	2.050	1.521	17,0 ft
5,1 ft Shoe	1,0 m	kg					2.020	1.430	1.330	960	960	700	900	660	5.238 mm
380 mm	3,3 ft	lb					4.453	3.153	2.932	2.116	2.116	1.543	1.984	1.455	17,2 ft
15 in	0 m	kg					1.970	1.390	1.290	930	950	690	930	680	5.076 mm
CWT	0 ft	lb					4.343	3.064	2.844	2.050	2.094	1.521	2.050	1.499	16,7 ft
420 kg 926 lb	-1,0 m	kg	*2.480	*2.480	*3.220	2.660	1.970	1.380	1.290	930			1.050	760	4.654 mm
Dozer blade up	-3,3 ft	lb	*5.467	*5.467	*7.099	5.864	4.343	3.042	2.844	2.050			2.315	1.676	15,3 ft
	-2,0 m	kg	*4.230	*4.230	*3.150	2.700	2.000	1.410					1.370	990	3.868 mm
	-6,6 ft	lb	*9.326	*9.326	*6.945	5.952	4.409	3.109					3.020	2.183	12,7 ft
	4,0 m	kg							*1.360	1.140			*1.390	1.030	4.248 mm
_	13,1 ft	lb							*2.998	2.513			*3.064	2.271	13,9 ft
Boom 3,03 m	3,0 m	kg							*1.410	1.130			*1.370	820	4.862 mm
9,8 ft	9,8 ft	lb							*3.109	2.491			*3.020	1.808	16,0 ft
Arm	2,0 m	kg					*2.210	1.660	*1.630	1.080	*1.400	780	*1.380	740	5.171 mm
1,54 m	6,6 ft	lb					*4.872	3.660	*3.594	2.381	*3.086	1.720	*3.042	1.631	17,0 ft
5,1 ft Shoe	1,0 m	kg					*2.780	1.550	*1.870	1.040	*1.470	760	*1.400	710	5.238 mm
380 mm	3,3 ft	lb					*6.129	3.417	*4.123	2.293	*3.241	1.676	*3.086	1.565	17,2 ft
15 in	0 m	kg					*2.920	1.510	*1.980	1.010	*1.470	740	*1.440	730	5.076 mm
CWT	0 ft	lb					*6.437	3.329	*4.365	2.227	*3.241	1.631	*3.175	1.609	16,7 ft
420 kg 926 lb	-1,0 m	kg	*2.480	*2.480	*3.220	2.930	*2.700	1.500	*1.870	1.000			*1.460	820	4.654 mm
Dozer blade down	-3,3 ft	lb	*5.467	*5.467	*7.099	6.460	*5.952	3.307	*4.123	2.205			*3.219	1.808	15,3 ft
	-2,0 m	kg	*4.230	*4.230	*3.150	2.980	*2.110	1.530					*1.420	1.070	3.868 mm
	-6,6 ft	lb	*9.326	*9.326	*6.945	6.570	*4.652	3.373					*3.131	2.359	12,7 ft

Notes: 1. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 2. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 3. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

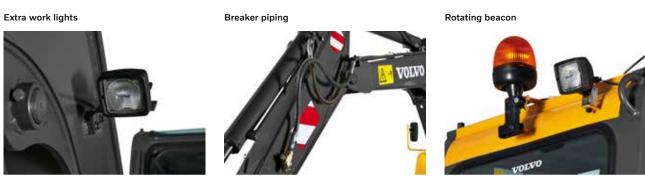
Equipment

STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
Engine	Engine
Low-emission Volvo diesel engine	Fuel filler pump: 35 l/min (9,25 gpm), with automatic shut-off
Standard cooling system (45 deg. C)	Electric/Electronic control system
Two-stage air filter	Extra working lights: Cab-mounted 1 (rear 1)
Fuel filter and water separator	Rotating warning beacon
Alternator, 60 A	Travel alarm
Electric / Electronic control system	Undercarriage
Safe engine start function	400 mm (16") rubber shoe
Halogen working lights: Cab-mounted 1, Boom-mounted 1	Hydraulic system
Battery, 12 V / 100 Ah	Pump for High Attitude
Start motor, 12 V / 2,5 kW	Hydraulic fluid mineral 68
Frame	Hammer
Lower frame with dozer blade	Hammer piping
420 kg (926 lb) counterweight	Cab and Interior
Under cover	Audio - provision
Undercarriage	FOG (Falling Object Guard)
380 mm (15")steal track	FOPS (Falling Object Protection Structure)
Hydraulic system	Service
Pump for Standard	Tool kit, full scale
Automatic two speed travel motors	Tool kit-daily maintenance
Cylinder cushioning	
Hydraulic fluid mineral 46	
Cab and interior	
Standard cab	
Fabric operator seat	
Control joystick with LH/RH one button	
Heater and air-conditioner	
Radio with USB	
Master Key	
Rearview mirror-side (LH/RH)	
Digging equipment	
3,03 m (9'11") Boom, 1,54 m (5'1") Arm	
Linkage	
Service	

Tool kit, standard

Spare parts

SELECTION OF VOLVO OPTIONAL EQUIPMENT



Travel alarm

FOG



Not all products are available in 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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