

Volvo Excavators

EC250E HYBRID



Welcome to our world

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.













Uptime Services

Genuine

Volvo Parts

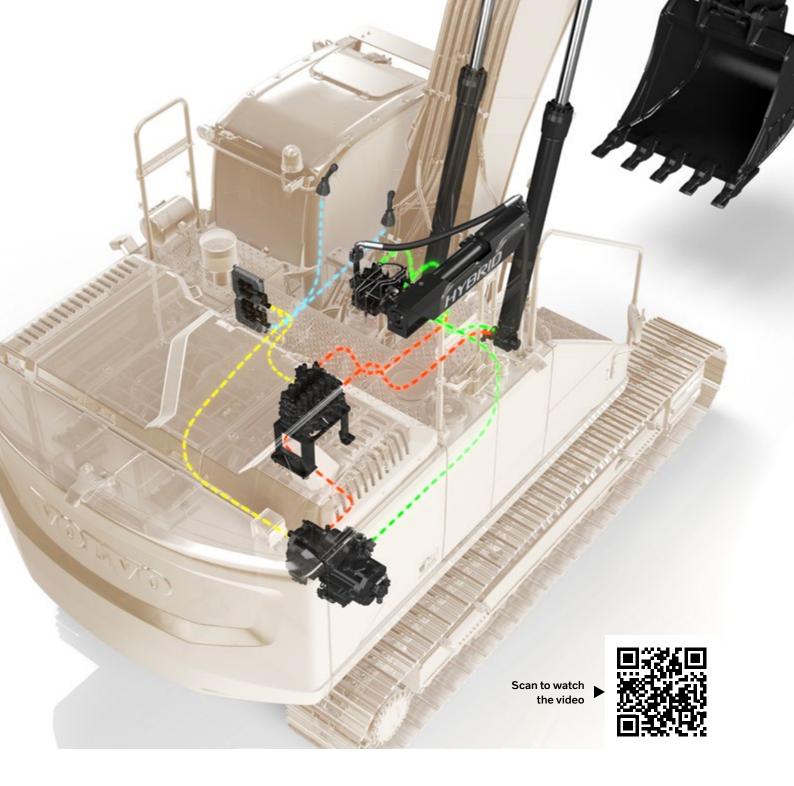


Safety Services

Rental Services



BUILDING TOMORROW



Simple solution, big savings

Introducing the new EC250E Hybrid. Featuring unique hydraulic hybrid Volvo technology, the excavator utilizes the boom down motion to charge the accumulator, with the stored energy used to drive the assist motor, which powers the engine system.

The result is up to 17%* increase in fuel efficiency while delivering all the power and performance you would expect from a conventional EC250E.



17% greater fuel efficiency*



15% lower fuel consumption*



15% reduction in CO₂ emissions*



100% Volvo engineered hydraulic hybrid



Simply reliable

The uncomplicated and reliable hybrid solution is easy to maintain and consists of just a handful of add-on components, meaning no disruption or complication to how the high performing EC250E is engineered.

Cleaner and greener

The EC250E Hybrid reduces CO_2 emissions by up to 15%* making it a more environmentally respectful choice, especially when working in built-up areas.

Rapid payback

When working in dig and dump applications, the EC250E Hybrid is a straightforward solution with fast payback. Save fuel, lower emissions and boost the profitability of your operation.

EC250E Hybrid in detail

Engine

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions, superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and intercooler, and electronic engine controls to optimize machine performance.

Engine	Volvo	D8M
Max power at	r/min	1600
Net, ISO 9249/SAE J1349	kW	167
	hp	227
Gross, ISO 14396/SAE J1995	kW	168
	hp	228
Max torque	Nm	1166
at engine speed	r/min	1 350
No. of cylinders		6
Displacement	1	7.7
Bore	mm	110
Stroke	mm	135

Hybrid

The uncomplicated and reliable hybrid solution, Volvo's novel hydraulic hybrid harvests 'free' energy generated by the down motion of the excavator's boom and uses it to supercharge the engine system. The powerful and regular boom-down motions charge the 20 litre hydraulic accumulator (5.3 gallon), which then delivers energy to drive the hydraulic assist motor that helps to power the engine system. There are the same levels of controllability and performance as the standard EC250E, including the ability to work in ECO mode and Hybrid mode simulaneously.

Accumulator

No. of accumulator		1
Displacement	I	20

Electrical System

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	170
Alternator	V/A	28 / 120
Start motor	V - kW	24 - 5.5

Undercarriage

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

Track shoes		2 x 51
Link pitch	mm	190
Shoe width	mm	600/700/ 800/900
Shoe width, triple grouser	mm	600/700/ 800/900
Shoe width, triple grouser (HD)	mm	600
Shoe width, double grouser	mm	600/700
Bottom rollers		2 x 9
Top rollers		2 x 2

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.

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq.

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	11.7
Max. slew torque	kNm	91.7

Travel System

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. drawbar pull	kN	217
Max. travel speed (low)	km/h	3.5
Max. travel speed (high)	km/h	5.5
Gradeability	0	35

Sound Level

Journa Level		
Sound pressure level in cab according to ISO 639	6	
L_pA	dB	70
External sound level according to ISO 6395 and 2000/14/EC	EU Noise Directive	

 L_{WA} dB 104

Hydraulic system

The hydraulic system, also known as the "Automatic Sensing Work Mode," is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm and swing priority along with boom, arm and bucket regeneration provides optimum performance.

Main pump, Type 2 x Variable displacement axial piston pumps

, ,,	•		•
Maximum flow		l/min	2 x 240
Pilot pump, Type Gear Pump			
Maximum flow		l/min	20.3
Relief value setting pressure			
Implement		MPa	33.3 / 36.3
Travel circuit		MPa	36.3
Slew circuit		MPa	27.9
Pilot circuit		MPa	3.9

Hydraulic Motors

Travel: Variable displacement axial piston motor with mechanical brake **Swing:** Fixed displacement piston motor with mechanical brake

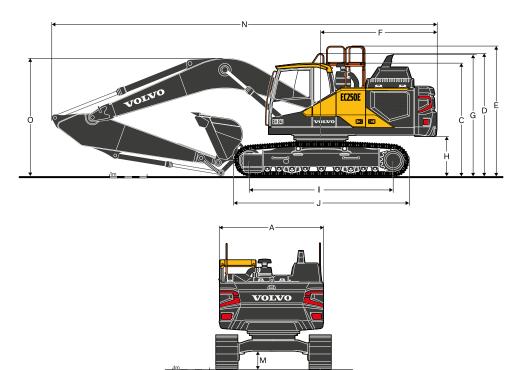
Hydraulic Cylinders

Mono boom		2
Bore x Stroke	ø x mm	135 x 1 345
Arm		1
Bore x Stroke	ø x mm	140 x 1 665
Bucket		1
Bore x Stroke	ø x mm	130 x 1 150

Service Refill		
Fuel tank	1	472
DEF/AdBlue® tank	I	50
Hydraulic system, total	1	385
Hydraulic tank	I	215
Engine oil	- 1	30
Engine coolant	I	44
Slew reduction unit	1	5.9
Travel reduction unit	1	2 x 5



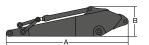
Specifications



Description	Unit EC250EL Hybrid		rid	EC250ENL Hybrid 6.0			
Boom	m	m 6.0					
Arm	m	2.5	2.97	3.6	2.5	2.97	3.6
A. Overall width of upper structure	mm	2 890	2 890	2 890	2 890	2 890	2 890
B. Overall width	mm	3 190	3 190	3 190	2 990	2 990	2 990
C. Overall height of cab	mm	3 045	3 045	3 045	3 045	3 045	3 045
D. Overall height of handrail	mm	3 310	3 310	3 310	3 310	3 310	3 310
E. Overall height of guardrail (Unfolded)	mm	3 515	3 515	3 515	3 515	3 515	3 515
E'. Overall height of handrail/guardrail (Folded)	mm	3 035	3 035	3 035	3 035	3 035	3 035
F. Tail swing radius	mm	3 075	3 075	3 075	3 075	3 075	3 075
G. Overall height of diffuser	mm	3 135	3 135	3 135	3 135	3 135	3 135
H. Counterweight clearance *		1 0 4 5	1 045	1 0 4 5	1 0 4 5	1 0 4 5	1 0 4 5
I. Tumbler length		3 850	3 850	3 850	3 850	3 850	3 850
J. Track length	mm	4 650	4 650	4 650	4 650	4 650	4 650
K. Track gauge	mm	2 590	2 590	2 590	2 390	2 390	2 390
L. Shoe width	mm	600	600	600	600	600	600
M. Min. ground clearance *	mm	470	470	470	470	470	470
N. Overall length	mm	10 310	10 230	10 300	10 310	10 230	10 300
O. Overall height of boom	mm	3 330	3 110	3 330	3 330	3 110	3 330

^{*} Without shoe grouser

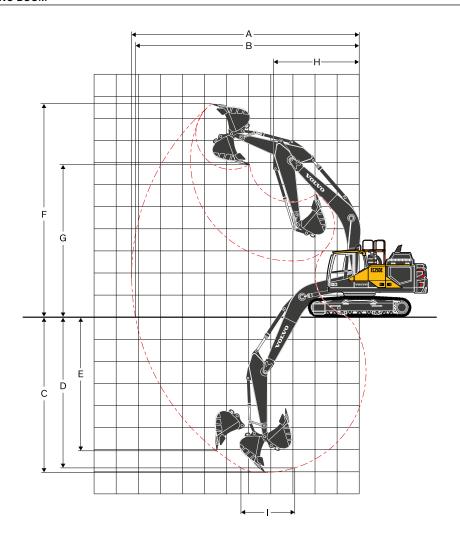




DIMENSIONS									
Description	Unit			Description	Unit				
Boom	m	6.0 GP	6.0 HD	Arm	m	2.5 HD	2.97 GP	2.97 HD	3.6 GP
Length	mm	6 220	6 220	Length	mm	3 580	4 050	4 050	4 715
Height	mm	1750	1750	Height	mm	995	995	995	1000
Width	mm	725	725	Width	mm	510	510	510	510
Weight	kg	2 230	2 355	Weight	kg	1 210	1 2 4 5	1300	1335

 $[\]ensuremath{^{\star}}$ Includes cylinder, piping and pin, excludes boom cylinder pin

^{*} Includes cylinder, linkage and pin



WORKING RANG	ES										
Description			Unit	EC	EC250EL / EC250ENL Hybrid						
Boom			m		6.0						
Arm			m	2.5	2.97	3.6					
A. Max. digging rea	ach		mm	9 960	10 340	10 810					
B. Max. digging re	ach on ground		mm	9 775	10 160	10 640					
C. Max. digging de	epth		mm	6 590	7 060	7 690					
D. Max.digging de	pth (2.44 m level)		mm	6 375	6 855	7 470					
E. Max. vertical wa	all digging depth		mm	5 265	5 520	5 805					
F. Max. cutting hei	ght		mm	9 620	9 685	9 645					
G. Max. dumping h	neight		mm	6 610	6 710	6 730					
H. Min. front swing	g radius		mm	3 915	3 890	3 890					
DIGGING FORCES	S WITH DIRECT FIT	BUCKET									
Bucket radius			mm	1 620	1 620	1 620					
	Normal	SAE J1179	kN	145	145	145					
Breakout force	Power boost	SAL JIII	kN	157	157	157					
Breakout force	Normal	ISO 6015	kN	166	166	166					
	Power boost	130 0013	kN	181	181	181					
	Normal	SAE J1179	kN	132	114	102					
Tearout force	Power boost	SAE JII/9	kN	143	124	111					
rearout force	Normal	ISO 6015	kN	136	118	105					
	Power boost	130 0013	kN	148	128	114					
Rotation angle, bu	cket		۰	177	177	177					

Specifications

MACHINE WEIGHTS A	ND GROUND PRE	SSURE									
Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width				
	mm	kg	kPa	mm	kg	kPa	mm				
EC250EL Hybrid											
			oom (GP), 2.97 m / 1.14 m³ bucket, counterweight		6.0 m boom (HD), 2.97 m arm (HD), 1 200 kg / 1.14 m³ bucket, 4 950 kg counterweig						
	600	27 230	53.8	3 190	27 410	54.1	3 190				
	600 (HD)	27 470	54.3	3 190	27 650	54.6	3 190				
Triple grouser	700	27 530	27 530 46.6		27 710	46.9	3 290				
	800	27 820	41.2	3 390	28 000	41.5	3 390				
	900	28 130	37.0	3 490	28 310	37.3	3 490				
5 11	600	27 450	54.2	3 290	27 630	54.6	3 190				
Double grouser	700	27 790	47.1	3 290	27 970	47.4	3 290				
EC250ENL Hybrid											
			oom (GP), 2.97 m / 1.14 m³ bucket, counterweight		6.0 m boom (HD), 2.97 m arm (HD), 1 200 kg / 1.14 m³ bucket, 4 950 kg counterwei						
	600	27 150	53.6	2 990	27 320	54.0	2 990				
	600 (HD)	27 390	54.1	2 990	27 560	54.4	2 990				
Triple grouser	700	27 450	46.5	3 090	27 620	46.8	3 090				
	800	27 740	41.1	3 190	27 910	41.4	3 190				
	900	28 050	36.9	3 290	28 220	37.2	3 290				
Daubla avausav	600	27 370	54.1	2 990	27 540	54.4	2 990				
Double grouser	700	27 710	46.9	3 090	27 880	47.2	3 090				

						E	C250EL Hyb	rid	EC250ENL Hybrid				
Bucket type		Capacity	Cutting width	Weight	Teeth		nm shoe, 4 9 counterweigh	-	600 mm shoe, 4 950 kg counterweight				
						6.	.0 m GP Boo	m	6.0 m GP Boom				
		L	mm	kg	EA	2.5 m	2.97 m	3.6 m	2.5 m	2.97 m	3.6 m		
		560	600	800	3	С	С	С	С	С	С		
		620	750	823	3	С	С	С	С	С	С		
		770	900	983	4	С	С	С	С	С	С		
		950	1090	1 012	4	С	С	С	С	С	С		
	General purpose	1 140	1 240	1 179	5	С	С	С	С	С	С		
	purpose	1320	1390	1 196	5	С	С	С	С	С	С		
		1 450	1 490	1 249	5	С	С	С	С	С	В		
Direct fit oucket		1 510	1540	1294	5	С	С	С	С	С	В		
Juonet		1760	1740	1 435	6	С	В	В	В	В	А		
		560	600	870	3	D	D	D	D	D	D		
		620	750	880	3	D	D	D	D	D	D		
	Haarm dub.	1 140	1240	1200	5	D	D	D	D	D	D		
	Heavy duty	1320	1390	1 289	5	D	D	D	D	D	С		
		1 510	1540	1 377	5	D	D	С	С	С	В		
		1760	1740	1533	6	С	В	А	В	А	В		
		560	600	800	3	С	С	С	С	С	С		
		620	750	823	3	С	С	С	С	С	С		
		770	900	983	4	С	С	С	С	С	С		
	.	950	1 090	1 012	4	С	С	С	С	С	С		
	General purpose	1140	1 240	1 179	5	С	С	С	С	С	В		
	purpose	1320	1390	1 196	5	С	С	С	С	В	В		
Direct fit		1 450	1 490	1 249	5	С	С	В	В	В	Α		
oucket UQC		1 510	1540	1294	5	С	В	А	В	В	Χ		
nterface)		1 760	1740	1435	6	В	А	Χ	А	Χ	Χ		
		560	600	870	3	D	D	D	D	D	D		
		620	750	880	3	D	D	D	D	D	D		
	Hoose dot	1 140	1 240	1200	5	D	D	D	D	D	В		
	Heavy duty	1320	1390	1 289	5	D	С	В	С	В	А		
		1 510	1540	1 377	5	С	В	А	В	А	Х		
		1760	1740	1533	6	В	А	Х	А	Х	Х		

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.

Ma	ximum materal density	
Α	1 200~1 300 kg/m ³	Coal, Caliche, Shale
В	1 400~1 600 kg/m³	Wet earth and clay, Limestone, Sandstone
С	1700~1800 kg/m³	Granite, Wet sand, Well blasted rock
D	> 1 900 kg/m ³	Wet mud, Iron ore
Χ	Not recommended	

Specifications

LIFTING CAPACITY EC250EL Hybrid

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.

	1.100		1.5	5 m	3.0) m	4.5	m	6.0) m	7.5	m	9.0) m	Max. reach		h
	Lifting p	ooint	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
	7.5 m	kg		00					*6890			00	00		*6 940		6.1
	6.0 m	kg							*6 900						*6 930		7.2
	4.5 m	kg					*9.320	*9.320	*7 740		*7 100	5 140			6 960	4720	7.9
Boom: 6.0 m	3.0 m	kg					*12 020			6 930	7 430	5 0 0 0			6400	4 320	8.3
Arm: 2.5 m	1.5 m	kg							*10 090		7 270	4 850			6 230	4 180	8.3
Shoe: 600 mm	0 m	kg					*14 870		9 9 6 0	6 440	7 150	4 750			6400	4 270	8.1
CWT: 4 950 kg	-1.5 m				*10.440	*10 440	*14 660		9 880	6 370	7 120	4720			7 000	4 650	7.6
	-3.0 m	kg					*13 560		9 940	6 430	1 120	4720			8 450	5 550	6.7
	-4.5 m	kg					*10 900		3 340	0430					*9 080		5.2
	7.5 m	kg kg			14 340	14 340	10 300	10 030							*6 080		6.6
	6.0 m	kg							*6 330	*6 330	*6390	5300			*5 830	5 120	7.7
	4.5 m	_					*0.420	*0 /20	*7 220			5 210			*5 860		8.3
Boom: 6.0 m	3.0 m	kg															
Arm: 2.97 m		kg									*7280				6 010	4 070	8.6
Shoe: 600 mm	1.5 m	kg			+ □ 000	* F 000	*13 500 *14 680			6 700	7300	4 890			5 850	3 940	8.7
CWT: 4 950 kg	0 m	kg	+0.070	+0.070					9 990	6 470	7160	4 760			5 980	4 000	8.5
	-1.5 m	kg					*14 820		9 860	6 3 6 0	7 090	4 690			6 470	4 310	8.0
	-3.0 m	kg	~1236U	12360			*14 040		9 880	6 370					7610	5 0 2 0	7.2
	-4.5 m	kg			" lb /20	" lb /20	*12 000	9 880							*8 940		5.8
	7.5 m	kg									*E 050	E 400			*5 040		7.2
	6.0 m	kg							+0.400	+0.400	*5 650				*4 900		8.2
	4.5 m	kg					10.050				*6 060	5 270	45.050	0.000	*4 950		8.8
Boom: 6.0 m	3.0 m	kg			*15 /60	*15 /60	*9 850			7 110	*6 750	5 0 9 0	*5 650		*5 180	3 750	9.1
Arm: 3.6 m	1.5 m	kg			47.000	47.000	*12 490		*9 130	6740	7 3 2 0	4 890	5 560	3 730	5 400	3 630	9.2
Shoe: 600 mm CWT: 4 950 kg	0 m	kg					*14 150		9 990	6 4 6 0	7 140	4 730			5 490	3 660	9.0
	-1.5 m	kg					*14 740		9 810	6300	7 0 3 0	4 630			5 870	3 900	8.5
	-3.0 m	kg					*14 400		9 760	6 260	7 020	4 620			6730	4 440	7.7
	-4.5 m	kg	*16 340	*16 340	*18 580	*18 580	*12 990		*9 600	6 3 6 0					*8 610	5 690	6.5
	-6.0 m	kg					*9 450	*9 450								*9 390	4.5
	7.5 m	kg							*6880						*6 930		6.1
	6.0 m	kg							*6 890						*6 910	5 640	7.2
	4.5 m	kg								7 3 9 0	*7 070	5 240			*7 040		7.9
Boom: 6.0 m Arm: 2.5 m	3.0 m	kg							*8 920		7 580	5 090			6 530	4 400	8.3
Shoe: 800 mm	1.5 m	kg					*14 050	10 090	*10 050		7 410	4 940			6 350	4 250	8.3
CWT: 4 950 kg	0 m	kg					*14 800			6 550	7 290	4 830			6 520	4 340	8.1
	-1.5 m	kg					*14 590				7 250	4 790			7 130	4 720	7.6
	-3.0 m	kg					*13 480		*10 090	6 520					8 610	5 640	6.7
	-4.5 m	kg			*14 840	*14 840	*10 830	10 170							*9 020		5.2
	7.5 m	kg													*6 050		6.6
	6.0 m	kg									*6330				*5 800		7.7
	4.5 m	kg							*7 170			5 280			*5830		8.3
Boom: 6.0 m Arm: 2.97 m	3.0 m	kg							*8 430			5 120			*6 070	4 110	8.6
Shoe: 800 mm	1.5 m	kg					*13 410	10 200	*9 660	6 780	7 420	4 940			5 940	3 970	8.7
CWT: 4 950 kg	0 m	kg					*14 580				7 270	4 810			6 070	4 040	8.5
	-1.5 m	kg	*6 640	*6 640	*10 660	*10 660	*14 700	9 740	10 020	6 430	7 200	4740			6 570	4 350	8.0
	-3.0 m	kg	*12 320	*12 320	*17 740	*17 740	*13 930	9 780	10 030	6 4 4 0					7 720	5 070	7.2
	-4.5 m	kg			*16 570	*16 570	*11 890	10 000							*8 850	6 880	5.8
	7.5 m	kg													*5 040	*5 040	7.2
	6.0 m	kg									*5 640	5 500			*4 900	4730	8.2
	4.5 m	kg							*6 420	*6 420	*6 050	5380			*4 950	4 140	8.8
Boom: 6.0 m	3.0 m	kg			*15 730	*15 730	*9830	*9830	*7 730	7 250	*6730	5 190	*5 650	3 900	*5180	3 820	9.1
Arm: 3.6 m	1.5 m	kg					*12 450	10 390	*9 100	6 860	7 470	4 980	5 670	3 800	5 510	3 690	9.2
Shoe: 800 mm	0 m	kg			*7 080	*7 080	*14 100	9 900	*10 160	6 570	7 280	4 810			5 600	3 730	9.0
CWT: 4 950 kg	-1.5 m	kg	*6800	*6 800	*10 800	*10 800	*14 670	9 690	10 000	6400	7 170	4 710			5 980	3 960	8.5
3			*11 030	*11 030	*16,000	*16.000	*14 330	9.670	9 950	6360	7 160	4 700			6.850	4 510	7.7
	-3.0 m	kg	11000	11000	10 000	10 000	1-000	0010	0 000						0 000		
	-3.0 m	kg kg	*16 340												*8 560		6.5

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 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 EC250ENL Hybrid

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 point		1.5	m	3.0) m	4.5	m	6.0 m		7.5	m	9.0 m		Max. reac		h
			Along UC	Across UC	m												
	7.5 m	kg							*6890	*6 890					*6 940	6 750	6.1
	6.0 m	kg							*6 900	*6 900					*6 930	5 110	7.2
	4.5 m	kg					*9320	*9 320	*7 740	6 670	*7 100	4 740			6 940	4 350	7.9
Boom: 6.0 m	3.0 m	kg					*12 020	9 560	*8 950	6360	7 410	4 600			6380	3 970	8.3
Arm: 2.5 m Shoe: 600 mm	1.5 m	kg					*14 100	9 000	*10 090	6 070	7 2 5 0	4 450			6 210	3 840	8.3
CWT: 4 950 kg	0 m	kg					*14 870	8 760	9 930	5 880	7 130	4350			6380	3 910	8.1
	-1.5 m	kg			*10 440	*10 440	*14 660	8 730	9 850	5 810	7100	4 320			6 980	4 260	7.6
	-3.0 m	kg			*18 690	17 210	*13 560	8 820	9 910	5 870					8 420	5 080	6.7
	-4.5 m	kg			*14 940	*14 940	*10 900	9 090							*9 080	7320	5.2
	7.5 m	kg													*6 080	6 040	6.6
	6.0 m	•							*6330	*6330	*6390	4 900			*5830	4720	7.7
	4.5 m	kg					*8 430	*8 430	*7 220	6 780	*6 670	4 810			*5 860	4 070	8.3
Boom: 6.0 m Arm: 2.97 m	3.0 m	kg					*11 140	9 760	*8 490	6 4 5 0	*7 280	4 650			5 9 9 0	3 740	8.6
Shoe: 600 mm	1.5 m	kg					*13 500	9 130	*9 740	6 130	7 280	4 480			5 830	3 610	8.7
CWT: 4 950 kg	0 m	kg			*5 020	*5 020	*14 680	8 800	9 9 6 0	5 910	7 140	4 3 6 0			5960	3 670	8.5
	-1.5 m	kg	*6 670	*6 670	*10 700	*10 700	*14 820	8 700	9 830	5 800	7 070	4 300			6 450	3 940	8.0
	-3.0 m	kg	*12 360	*12 360	*17 780	17 030	*14 040	8 750	9 850	5 810					7 5 9 0	4 600	7.2
	-4.5 m	kg			*16 720	*16 720	*12 000	8 950							*8 940	6 220	5.8
	7.5 m	kg													*5 040	*5 040	7.2
	6.0 m	kg									*5 650	4 990			*4 900	4 290	8.2
	4.5 m	kg							*6 430	*6430	*6 060	4 870			*4 950	3 740	8.8
Boom: 6.0 m	3.0 m				*15 760	*15 760	*9 850			6 530	*6 750	4 680	5 640	3 520	*5 180		9.1
Arm: 3.6 m	1.5 m	kg					*12 490		*9 130	6 170	7300	4 490	5 5 4 0	3 420	5380		9.2
Shoe: 600 mm CWT: 4 950 kg		kg					*14 150		9 960	5 900	7 120	4 330			5 470	3 360	9.0
C V 1. + 550 kg	-1.5 m	kg					*14 740		9 780	5 740	7 010	4 230				3 560	8.5
	-3.0 m	kg					*14 400		9 730	5 700	7 000	4 2 2 0			6 710	4 060	7.7
	-4.5 m	kg	*16 340	*16 340	*18 580	17 010			*9 600	5800					*8 610		6.5
	-6.0 m	•	<i>i</i> -				*9 450	9 110							*9 390	9 050	4.5

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 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.

Equipment

STANDARD EQUIPMENT

Engine

Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage V requirements

Air filter with indicator

Air intake heater

Cyclone pre-cleaner

Electric engine shut-off

Fuel filter and water separator

Fuel filler pump: 50 l/min, with automatic shut-off

Alternator, 80 A

Hybrid

Accumulator, 20 L

Boom regeneration valves

Assist motor

Main pump with PTO

Electric / Electronic control system

Advanced mode control system

Self-diagnostic system

Machine status indication

Engine speed sensing power control

Automatic idling system

Onetouch power boost

Safety stop/start function

Adjustable LCD color monitor

Master electrical disconnect switch

Engine restart prevention circuit

High-capacity LED lights:

- Frame-mounted 2

- Boom-mounted 1

Batteries, 2 x 12 V / 170 A

Start motor, 24 V / 5.5 kW

Frame

Access way with handrail

Tool storage area

Punched metal anti-slip plates

Counterweight: 4 950 kg

Undercarriage

Undercover (heavy-duty)

Hydraulic track adjusters

Greased and sealed track link

Track Guard

Hydraulic system

Boom up swing priority function

Boom travel priority function (Creep)

Boom down speed control

Hose rupture valve: boom & arm

Overload warning device

Automatic sensing hydraulic system

- Summation system
- Boom priority
- Arm priority
- Swing priority

ECO mode fuel saving technology

Boom, arm and bucket regeneration valves

Swing anti-rebound valves

Boom and arm holding valves

Multi-stage filtering system

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, longlife oil 46

STANDARD EQUIPMENT

Cab and interior

ROPS (ISO 12117-2) certified cab

Silicon oil and rubber mounts with spring

Travel pedals and hand levers

Adjustable operator seat and joystick control console

Proportional joysticks with 3 switches

Heater & air-conditioner, automatic

Flexible antenna

Radio with MP3 & USB Jack with Bluetooth

Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:

- Cup holders
- Door locks
- Tinted glass
- Floor mat
- Horn
- Large storage area
- Pull-up type front window
- Removable lower windshield
- Seat belt
- Safety glass
- Sun screens, front, roof, rear
- Rain shield
- Windshield wiper with intermittent feature

Rear view camera

Side view camera

Master key

Track shoes

600 mm with triple grousers

Digging equipment

Boom: 6.0 m monoblock

Arm: 2.97 m

Manual centralized lubrication

OPTIONAL EQUIPMENT

Engine

Block heater: 120 V, 240 V

Oil bath pre-cleaner

Diesel coolant heater, 10 kW

Water separator with heater

Auto engine shutdown

Reversible fan

Delayed engine shutdown

Electric

Extra work lights (Halogen or LED):

- Cab-mounted 3
- Boom-mounted 1
- Counterweight-mounted 1

Green light beacon

Travel alarm

Anti-theft system

Rotating warning beacon Smart connect for tilt rotator

Tilt rotator 3rd gen

Dig assist, smart connect

OPTIONAL EQUIPMENT

Undercarriage

Full track guard

Track shoes

700/800/900 mm with triple grousers

600 mm HD with triple grousers

600/700 mm with double grousers

Hydraulic system

CDC, Comfort Driving Control

Boom float function with HRV

Boom float function without HRV

Attachment management system (up to 32 programmable memories)

- Variable flow and pressure pre-setting

Hammer & shear, 1 and 2 pump flow

Additional return filter

Hydraulic piping:

- Slope & rotator
- Grapple
- Oil leak (drain) line

Quick coupler piping

Volvo hydraulic quick coupler S1

Volvo hydraulic quick coupler S2

Volvo hydraulic quick coupler U25

Volvo hydraulic quick coupler S70

Volvo hydraulic quick coupler SQ70 55

Volvo hydraulic quick coupler SQ70

Hydraulic oil, biodegradable 46

Hydraulic oil, longlife oil 32

Hydraulic oil, longlife oil 68

Straight travel pedal

OPTIONAL EQUIPMENT

Cab and interior

Fabric seat with heater

Fabric seat with heater and air suspension

Deluxe seat

High-strength one piece front windshield (P5A)

Opening top hatch

Falling object guard, FOG (fixed type or hinge type)

Frame-mounted

Cab-mounted

Cab-mounted falling object protective structure (FOPS)

Volvo smart view

Smoker kit (ashtray and lighter)

Safety net for front window

Lower wiper with intermittent control

Anti-vandalism kit

Specific key

Cleaning air gun

Digging equipment

Boom: 6.0 m monoblock, heavy duty

Arm: 2.5 m HD, 2.97 m HD, 3.6 m

Linkage with lifting eye

Machine controls

Dig Assist

Volvo Active Control (Semi-autonomous)

Please refer to separate Brochure for more details

Service

Tool kit, daily maintenance

Tool kit, full scale

Automatic lubrication system

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Swing out FOG



Volvo Smart View



TiltRotator



Comfort Drive Control



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.

V O L V O