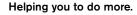
EC160E, EC180E

VOLVO EXCAVATORS 16.4-20.9t 150hp



A passion for performance.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.



Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs.

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.





You learn a lot in 180 years.

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side.

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.













Volvo Trucks

Renault Trucks

































Volvo Penta

Volvo Financial Services

Effortless Efficiency.

Volvo's new EC160E, and EC180E provide a range of new features to ensure efficiency is a key priority when delivering functions. By carefully considering every duty and component, a machine has been produced that incorporates maximum uptime while also reducing fuel consumption and cycle times – all while delivering elite performance.

Volvo engine

Featuring proven advanced technology, and built on decades of experience, Volvo's robust D4 Stage IV engine boasts more power - while reducing both fuel consumption and emissions to deliver superior quality, reliability and durability.



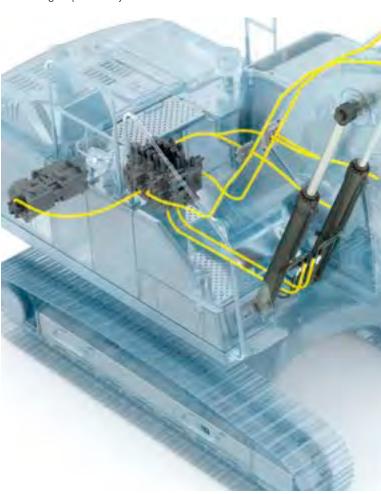


Boom float function

With the boom float function, the pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.

Increased power

The increased engine power combined with the increased pump input power creates a highly responsive combined operation and travel. It also produces faster cycle times and low fuel consumption which leads to higher productivity.



Main Control Valve and Software

This valve is compatible with software in the machine – building on the already superior controllability by providing a smooth and easy operation. It is also compatible with Volvo's ECO mode – this provides electronic pump control to enhance fuel efficiency.

Auto engine shutdown

To reduce fuel consumption, the engine will automatically switch off when the machine is inactive for a pre-set amount of time (five minutes is the default setting).





Making hard work easy.

The EC160E and EC180E have been ergonomically designed for convenience and ease of use, allowing the operator to take control in comfort. The spacious cab design, controls and features are the industry first choice, while aimed at increasing productivity by ensuring the machine takes the strain and not the operator.

Side view camera

As well as the rear view camera, there is now a side view camera option to cover the visual blind spot. Both views are displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.





Bluetooth®

To aid operator convenience and support better productivity, you can now connect a Bluetooth device to the machine enabling the handsfree function.

Short-cut key

For added convenience, functions such as windshield wipers, cameras, auto-mute or power max function can all be assigned a short-cut button on the joystick. This allows the operator to select a function during the application without disruption.





Seatbelt warning alarm

If the seatbelt is not buckled when the ignition key is turned, an alarm is triggered in intervals along with a continuous visual alert. This emphasises our priority for operator safety.

From Strong to Stronger.

The EC160E, EC180E not only encompasses state-of-the-art design but Volvo also recognises that for technology to be truly innovative, top priorities need to be durability, quality and reliability for every function. This is why care has been taken to ensure every aspect of the machine is built to last while operating at the highest level of productivity.

ROPS

The cab features ROPS – this reinforced steel structure ensures the operator is protected in the unlikely event of the machine rolling over, while it also meets the ISO standards for safety.





Lower frame

The intelligently designed X-shape lower frame enables even weight distribution increasing stability and durability - preventing damage from rock and debris.

Boom and Arm

The robust design includes internal plates positioned to support pressure points during the range of applications. This helps disperse the stress from high-pressure areas of the boom and arm, to ensure maximum productivity time after time, during the most demanding applications.





Undercarriage

The idlers, track links, upper and bottom rollers are built to withstand all elements and terrain, to create improved long-lasting durability and support maximum uptime.





The machine can be adjusted to take a wide variety of hydraulic lines, which are factory fitted with breaker and shear piping (X1), as well as rotator piping (X3). State-of-the-art auxiliary lines provide the correct flow and pressure for special attachments such as mowers and grinders, shears, crushers and tilt rotators among other attachments. You can choose between the one or two pump flow to maximize profits and productivity.

Fits with Variety.

To maximize customer productivity and profitability, the EC160E and EC180E have been designed to not only be compatible with a range of attachments, but to enhance their performance by easily and quickly switching to accommodate any needs.

Attachment Management System

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab, which ensures the use of various attachments for increased versatility.

NEW XI WORK TOOL Flow 170 I Control Push Pedal control

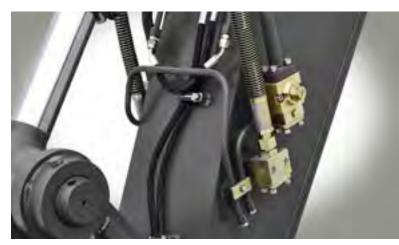


Electrical pedal

The electric pedal offers precise control to allow the operator to use a wider variety of attachments.

Extra piping

An additional piping solution is available on the breaker and shear piping (X1), accommodating the use of tilt/rotator attachments.





Response mode

The attachment response sensitivity can be adjusted using the keypad. This allows the operator to tailor machine response for maximum impact in different environments.

Ground Control.

Maintaining a good level of inspection is important for the machine longevity, quicker servicing and maximum uptime - this is the reason Volvo has developed easily accessible maintenance points with added safety precautions.

Grouped filters

Filters are well grouped and easily accessible from the ground level. This facilitates the speed and ease of servicing.







Service interval alerts

Real-time service alerts are displayed on the colour monitor to enable diagnostic checks. Separate service intervals include - the engine oil/ filter, fuel filter/water separator, hydraulic oil and hydraulic oil filter. This ensures peace of mind and maximum uptime.

Single layer cooling system

The radiator, charged air cooler and hydraulic oil cooler are situated side-by-side on a single layer, to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed from ground level by simply opening the side door.





Anti-slip steel plates

Well-positioned punched anti-slip plates provide superior grip and durability. The design facilitates easy cleaning while promoting safety.





Mix and match for a superior fit.

Maximize your productivity and profitability with Volvo's EC160E and EC180E crawler excavators and a range of durable attachments. Increase your versatility, access more applications and perform a variety of tasks – all while experiencing faster cycle times and excellent control.

Buckets - GP/HD/XD

Volvo's buckets are the perfect tool for digging and re-handling inl all conditions from soft, medium and hard materials. Heavy-duty buckets are intended for productive digging in compact materials. All provide maximum productivity and long life and feature original Volvo wear components.

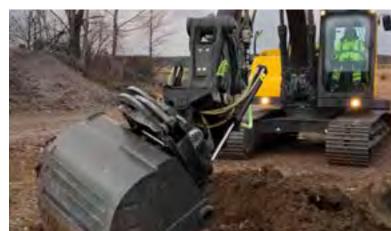
Breakers HB18

The HB-18 hydraulic breaker is optimized to the specific weights of Volvo machines and tailored to Volvo quick couplers for swift, safe and simple attachment changes. They are available with a full assortment of tools.









Quick couplers with front pin lock

Volvo offers a full range of quick couplers, from its dedicated Volvo S-type coupler to the Steelwrist® ones. Both couplers feature Front Pin Lock technology, which allows supreme safety when changing attachments. Those innovative couplers are not only designed to fit perfectly with Volvo excavators but they also complies with the latest safety regulations of ISO 13031 and EN474-1.

Tilt Rotator

Volvo's tilt rotator can be ordered factory installed with multifunctional joysticks and color display that's fully integrated into the machine's system. The new series of Volvo XD excavator buckets are perfectly matched to the factory installed tilt rotator.

Improved total cost of ownership.

Boom and arm

To achieve the best performance, select the most suitable boom and arm configuration combination for your requirements.



Ultimate tool carrier

Designed to not only be compatible with a

range of attachments, but also to enhance their performance by easily and quickly switching to accommodate any needs.



Optimized hydraulics

Designed to perfectly match the engine power,

reduce power loss, and improve controllability and response time.



Volvo offers a total AdBlue solution that is quality assured, cost efficient and easily accessible. Contact your Volvo dealer for

more information.

Boom float

The pump power for boom lowering can be saved or used for other functions, reducing the cycle time. Also, the grading operation can be made easier.



Attachment management system

The password protected management system allows storage for up to 20 different attachments. It pre-sets and permits hydraulic flow and pressure to be adjusted within the cab.

Side view camera

Covers the visual blind spot at the side of machine. View is displayed on the colour monitor, creating a safer working environment, protecting the operator and personnel on the ground.

Short cut key function

For ease of use, functions such as windshield wipers, cameras, auto-mute or power max function can all be assigned a short-cut button on the joystick



Bluetooth and hands-free functions have been added, allowing the operator to connect to wireless functions for increased comfort and safety.



Service access

The E-series features a new convenient and safe access

- such as guardrails - to check the hydraulic tank, fuel tank and AdBlue®. This is in addition to the easily accessible side entry, through a wide compartment door.



Volvo engine

Volvo's D4 Stage IV engine boasts more power while reducing both fuel consumption and emissions; delivering superior quality, reliability and durability.

Built to last

All detail - no matter how small - is overlooked. Silicone caulking is used to prevent rust, waterproof

harnesses and connections have been installed - as well as heavy-duty door hinges and bolted-on protection for the framework lights.

Grouped filters

Filters are well grouped and easily accessible from the ground level. This facilitates the speed and ease of servicing.

Adding value to your business.

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to the positive return of your investment.



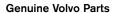


Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of

your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.





Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.



Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.



Volvo EC160E, EC180E in detail.

EC160E EC180E

Engine

The latest generation, Volvo engine Tier 4f / Stage IV emissions compliant diesel engine fully meets the demands of the latest, emsissions regulations. Featuring Volvo Advanced Combustion Technology (V-ACT), it is designed to deliver superior performance and fuel efficiency. The engine uses precise, high pressure fuel injectors, turbo charger and air-to-air intercooler, and electronic engine controls to optimize machine performance. Air Filter: 3-stage with precleaner

Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

Engine	Volvo	D4J
Max power at	r/s / r/min	33.3 / 2 000
Net, ISO 9249/SAE J1349	kW / hp	109 / 148
Gross, ISO 14396/SAE J1995	kW / hp	110 / 150
Max torque at	Nm / r/min	609 / 1 600
No. of cylinders		4
Displacement	I	4.04
Bore	mm	101
Stroke	mm	126

Electrical system

Well protected high-capacity electrical system. 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. Contronics provides advanced monitoring of machine functions and important diagnostic information.

Voltage	V	24
Batteries	V / Ah	2 x 12 / 110
Alternator	V / Ah	28 / 80
Start motor	V / kW	24 x 5.5

Swing system

The swing system uses an axial piston motors, driving a planetary gearbox for maximum torque. An automatic holding brake and antirebound valve are standard.

Max. slew torque	kNm	51.7
Max. slew speed	r/mın	12.5

Drive

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	152	167
Max. travel speed	km/h	3.1 / 5.6	2.8 / 5.5
Gradeability	0	35	35

Undercarriage

Robust X-shaped frame with greased and sealed track chains as standard.

Stariuaru.					
Track shoe		2 x 44 2 x 4	16		
Link pitch	mm	190			
Shoe width, triple grouser	mm	500 / 600 / 700 / 800 / 900			
Bottom rollers	mm	2 x 7			
Top rollers	mm	2 x 2			
Service refill capacities					
Fuel tank	- 1	250			
Hydraulic system, total	1	255			
Hydraulic tank	1	110			
AdBlue tank	1	20			
Engine oil	1	16			
Engine coolant	1	27			
Swing reduction unit	1	2.6			
Travel reduction unit	I	2 x 5.8			

EC160E EC180E

Hydraulic system

The hydraulics system, combined with the fully electronic control system and advanced ECO mode, has been optimized to work in harmony with engine to match the engine power, reduce power loss and improve controllability and response time.

The following important functions are included in the

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. **Arm priority:** Gives priority to the arm operation for faster cycle times in leveling 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 152				
Pilot pump						
Type Gear pump						
Maximum flow	l/min	1 x 20				
Relief valve setting						
Implement	MPa	34.3 / 36.3				
Travel circuit	MPa	34.3				
Slew circuit	MPa	26.5				
Pilot circuit	MPa	3.9				

Hydraulic motors

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

Hydraulic cylinders

Mono boom		2
Bore x Stroke	ø x mm	115 x 1 165
2-piece boom		1
Bore x Stroke	ø x mm	160 x 950
Arm		1
Bore x Stroke	ø x mm	120 x 1 345
Bucket		1
Bore x Stroke	ø x mm	105 x 1 000

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.

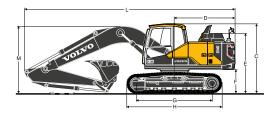
Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 14 vents.

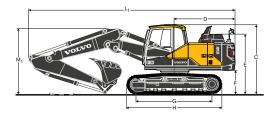
Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

Sound level in cab according to	ISO 6396	
LpA (standard)	dB(A)	69
LpA (tropical)	dB(A)	70
External sound level according to (2000/14/EC)	o ISO 6395, EL	J Noise Directive
LwA (standard)	dB(A)	101
LwA (tropical)	dB(A)	102

DIMENSIONS



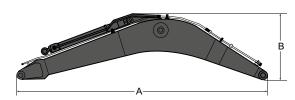




Des	scription	Unit		EC160EL		E	C160EN	L		EC180EL	•
Boo	om	m		5.2 mono or 5.0 2-piece							
Arn	1	m	2.3	2.6	3.0	2.3	2.6	3.0	2.3	2.6	3.0
Α	Overall width of upper structure	mm	2 490	2 490	2 490	2 490	2 490	2 490	2 490	2 490	2 490
В	Overall width	mm	2 800	2 800	2 800	2 590	2 590	2 590	2 800	2 800	2 800
С	Overall height of cab	mm	2 900	2 900	2 900	2 900	2 900	2 900	2 900	2 900	2 900
D	Tail swing radius	mm	2 550	2 550	2 550	2 550	2 550	2 550	2 550	2 550	2 550
Ε	Overall height of engine hood	mm	2 5 1 0	2 5 1 0	2 5 1 0	2 5 1 0	2 5 1 0	2 5 1 0	2 5 1 0	2 5 1 0	2 5 1 0
F	Counterweight clearance*	mm	1 010	1 010	1 010	1 010	1 010	1 010	1 010	1 010	1 010
G	Tumbler length	mm	3 180	3 180	3 180	3 180	3 180	3 180	3 370	3 370	3 370
Н	Track length	mm	3 980	3 980	3 980	3 980	3 980	3 980	4 160	4 160	4 160
1	Track gauge	mm	2 200	2 200	2 200	1 990	1 990	1 990	2 200	2 200	2 200
J	Shoe width	mm	600	600	600	600	600	600	600	600	600
K	Min. ground clearance*	mm	460	460	460	460	460	460	460	460	460
L	Overall length	mm	8 880	8 770	8 810	8 880	8 770	8 810	8 880	8 770	8 810
L,	Overall length	mm	8 700	8 620	8 620	8 700	8 620	8 620	8 700	8 620	8 620
M	Overall height of boom	mm	2 980	2 900	3 020	2 980	2 900	3 020	2 980	2 900	3 020
M_1	Overall height of boom	mm	2 770	2 770	2 930	2 770	2 770	2 930	2 770	2 770	2 930

^{*} Without shoe grouser

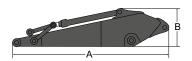
2-piece boom



EC160E, EC180E						
Description	Unit	mono	2-piece			
Boom	m	5.2	5.0			
Length (A)	mm	5 400	5 200			
Height (B)	mm	1 640	1 270			
Width	mm	565	565			
Weight	kg	1 370	1 610			

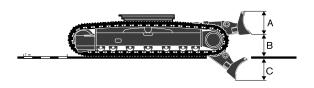
^{*} Includes cylinder, piping and pin, excludes boom cyl. Pin

Description	Unit	EC160EL	EC160ENL
Front dozer blade			
Height (A)	mm	452	452
Width	mm	2 800	2 590
Weight	kg	572	553
Lift height (B)	mm	571	571
Digging depth (C)	mm	735	735



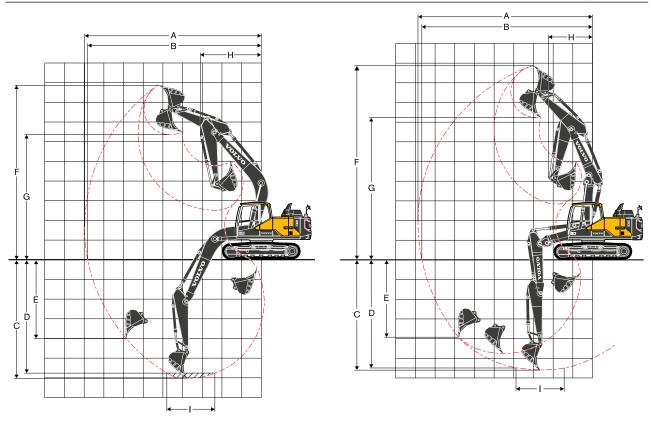
EC160E, EC180E							
Description	Unit						
Arm	m	2.3	2.6	3.0			
Length (A)	mm	3 240	3 500	3 900			
Height (B)	mm	855	855	845			
Width	mm	395	395	395			
Weight	kg	790	800	860			

^{*} Includes cylinder, linkage and pin



Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
			•	EC16	OEL	1.	•
			n boom, 2.6m			piece boom, 2	
			kg / 0.7m³ bu			kg / 0.7m ³ bu	
			Okg counterv			Okg counterw	
	500	17 490	50.0	2 700	17 860	51.0	2 700
	600	17 720	42.2	2 800	18 090	43.1	2 800
Triple grouser	700	17 955	36.3	2 900	18 330	37.3	2 900
	800	18 350	32.4	3 000	18 720	33.3	3 000
	900	18 620	29.4	3 200	18 990	29.4	3 200
				EC160EL with			
			n boom, 2.6m kg / 0.7m³ bu			piece boom, 2 kg / 0.7m³ bu	
			Okg counterv			Okg counterw	
	500	18 670	53.0	2 700	19 040	53.9	2 700
	600	18 900	44.1	2 800	19 270	45.1	2 800
Triple grouser	700	19 130	38.2	2 900	19 500	39.2	2 900
	800	19 530	34.3	3 000	19 900	35.3	3 000
	900	19 790	31.4	3 200	20 165	31.4	3 200
				EC160	-		
			n boom, 2.6m			piece boom, 2	
			kg / 0.7m ³ bu			kg / 0.7m ³ bu	
	500		Okg counterv			Okg counterw	
	500	17 400	49.0	2 490	17 770	50.0	2 490
	600	17 630	41.2	2 590	18 000	42.2	2 590
riple grouser	700	17 860	36.3	2 690	18 230	37.3	2 690
	800	18 260	32.4	2 790	18 630	33.3	2 790
	900	18 520	29.4	2 890	18 895	29.4	2 890
		5.0		EC160ENL wit		b <i>(</i>) C
			n boom, 2.6m kg / 0.7m³ bu			piece boom, 2 kg / 0.7m³ bu	
			Okg counterw			Okg counterw	
	500	18 570	53.0	2 490	18 940	53.9	2 490
	600	18 800	44.1	2 590	19 170	45.1	2 590
Triple grouser	700	19 030	38.2	2 690	19 400	39.2	2 690
p.o g. ouco.	800	19 430	34.3	2 790	19 800	35.3	2 790
	900	19 700	31.4	2 890	20 070	31.4	2 890
				EC18			
		5.21	n boom, 2.6m			piece boom, 2	2.6m arm.
			kg / 0.7m³ bu			kg / 0.7m³ bu	,
			Okg counterv			Okg counterv	
	500	18 130	49.0	2 700	18 500	50.0	2 700
	600	18 375	41.2	2 800	18 750	42.2	2 800
riple grouser	700	18 810	36.3	2 900	19 180	37.3	2 900
	800	19 080	32.4	3 000	19 450	33.3	3 000
	900	19 360	28.4	3 100	19 730	29.4	3 100

WORKING RANGES



Description			Unit			EC1	60E					EC1	80E		
Boom			m	5.	.2 mor	10	5.0	2-pie	ce	5	.2 mor	10	5.0	2-pie	ce
Arm			m	2.3	2.6	3.0	2.3	2.6	3.0	2.3	2.6	3.0	2.3	2.6	3.0
A Max. diggi	ing reach		mm	8 660	8 980	9 350	8 560	8 870	9 250	8 660	8 980	9 350	8 560	8 870	9 250
B Max. diggi	ing reach on gro	und	mm	8 500	8 820	9 200	8 390	8 710	9 100	8 500	8 820	9 200	8 390	8 710	9 100
C Max. diggi	ing depth		mm	5 770	6 070	6 470	5 250	5 560	5 960	5 770	6 070	6 470	5 250	5 560	5 960
D Max. diggi	ing depth $(I = 2.4)$	44m level)	mm	5 470	5 810	6 240	5 120	5 450	5 850	5 470	5 810	6 240	5 120	5 450	5 850
E Max. vertice	cal wall digging of	depth	mm	4 510	4 990	5 4 1 0	4 300	4 660	5 060	4 5 1 0	4 990	5 410	4 300	4 660	5 060
F Max. cuttir	ng height		mm	8 560	8 820	9 030	9 5 1 0	9 810	10 120	8 560	8 820	9 030	9 5 1 0	9 8 1 0	10 120
G Max. dum	oing height		mm	6 080	6310	6510	6 890	7 180	7 480	6 080	6310	6510	6 890	7 180	7 480
H Min. front	swing radius		mm	3 070	3 070	3 070	2 040	1 990	2 120	3 070	3 070	3 070	2 040	1 990	2 120
Digging force	es with direct	fit bucket													
Bucket radius	S		mm	1 319	1 319	1 319	1 319	1 319	1 319	1 319	1 319	1 319	1 319	1 319	1 319
Б	Normal	SAE J1179	kN	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
Breakout force	Power boost	SAE J1179	kN	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
-bucket	Normal	ISO 6015	kN	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3	115.3
Buonot	Power boost	ISO 6015	kN	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9
- .	Normal	SAE J1179	kN	90.0	80.0	72.5	90.0	80.0	72.5	90.0	80.0	72.5	90.0	80.0	72.5
Tearout force	Power boost	SAE J1179	kN	95.1	84.6	76.6	95.1	84.6	76.6	95.1	84.6	76.6	95.1	84.6	76.6
-dipper arm	Normal	ISO 6015	kN	92.2	81.7	73.8	92.2	81.7	73.8	92.2	81.7	73.8	92.2	81.7	73.8
aippoi aiiii	Power boost	ISO 6015	kN	97.5	86.4	78.1	97.5	86.4	78.1	97.5	86.4	78.1	97.5	86.4	78.1
Rotation ang	le, bucket		0	183	183	183	183	183	183	183	183	183	183	183	183

				C					EC16	60EL		
			Capacity	Cutting width	Weight	Teeth	5	.2m boor	n	5.0m	2-piece b	oom
В	Bucket typ	е		width				600mm s	hoe, 2 75	Okg coun	terweigh	t
			L	mm	kg	EA	2.1m arm	2.5m arm	3.0m arm	2.1m arm	2.5m arm	3.0m arm
			300	450	354	3	С	С	С	С	С	С
			360	600	380	3	С	С	С	С	С	С
	Without	General	580	900	469	4	С	С	С	С	С	С
	quick	purpose	700	1050	514	4	С	С	С	С	С	С
	coupler		880	1250	598	5	С	С	С	С	С	С
Direct fit			960	1350	639	6	С	С	С	С	С	С
uckets		1	300	450	354	3	С	С	С	С	С	С
			360	600	380	3	С	С	С	С	С	С
	U type	General	580	900	469	4	С	С	С	С	С	С
	quick	purpose	700	1050	514	4	С	С	С	С	С	С
	coupler		880	1250	598	5	С	С	С	С	С	С
			960	1350	639	6	С	С	С	С	С	В
		1							EC16	OENL		
			Capacity	Cutting	Weight	Teeth	5	.2m boor			2-piece b	oom
В	Bucket typ	e	oupuon,	width				500mm s				
_	uonot typ						2.1m	2.5m	3.0m	2.1m	2.5m	3.0m
			L	mm	kg	EA	arm	arm	arm	arm	arm	arm
			300	450	354	3	С	С	С	С	С	С
			360	600	380	3	С	С	С	С	С	С
	Without	General	580	900	469	4	C	C	C	C	C	С
	quick	purpose		1050	514	4	C	C	C	С	С	С
	coupler		880	1250	598	5	C	C	C	C	C	С
Direct fit			960	1350	639	6	C	C	В	C	C	В
uckets		1	300	450	354	3	C	C	С	C	C	С
			360	600	380	3	C	C	C	С	С	С
	U type	General	580	900	469	4	C	C	C	C	C	С
	quick	purpose		1050	514	4	C	C	C	C	С	С
	coupler	parposo	880	1250	598	5	C	В	В	C	В	В
			960	1350	639	6	В	В	A	В	В	A
			300	1000		- 0			EC18			
				O44:					LUIC		2 nices l	noom
			Canacity	Cutting	Weight	Tooth	-	2m hoor	n	5 0 m		
В	Rucket tyr	ne.	Capacity	width	Weight	Teeth		5.2m boor			2-piece b	
В	Bucket typ	e e	Capacity	_	Weight	Teeth	(600mm s	hoe, 3 20	Okg cour	terweigh	t
В	Bucket typ	oe	Capacity L	_	Weight kg	Teeth EA	2.1m	600mm s 2.5m	hoe, 3 20 3.0m	0kg cour 2.1m	terweigh 2.5m	3.0m
В	Bucket typ	oe	L	width	kg	EA	2.1m arm	600mm s 2.5m arm	hoe, 3 20 3.0m arm	Okg cour 2.1m arm	terweigh 2.5m arm	3.0m arm
В	Bucket typ	oe	L 300	width mm 450	kg 354	EA	2.1m arm	2.5m arm	3.0m arm	Okg cour 2.1m arm	2.5m arm	3.0m arm
В	Without		L 300 360	width mm 450 600	kg 354 380	EA 3 3	2.1m arm C	2.5m arm C	3.0m arm C	Okg cour 2.1m arm C	2.5m arm	3.0m arm C C
В	Without quick	General	L 300 360 580	width mm 450 600 900	kg 354 380 469	EA 3 3 4	2.1m arm C C	2.5m arm C C	3.0m arm C C	Okg cour 2.1m arm C C	2.5m arm C C	3.0m arm C C
Е	Without		L 300 360 580 700	width mm 450 600 900 1050	kg 354 380 469 514	EA 3 3 4 4	2.1m arm C C C	2.5m arm C C C	noe, 3 20 3.0m arm C C C	Okg cour 2.1m arm C C C	terweigh 2.5m arm C C C	3.0m arm C C C
	Without quick coupler	General	300 360 580 700 880	width mm 450 600 900 1050 1250	kg 354 380 469 514 598	EA 3 3 4 4 5	2.1m arm C C C C	2.5m arm C C C C C	3.0m arm C C C C	Okg cour 2.1m arm C C C C C	c C C C C C C	3.0m arm C C C C
Direct fit	Without quick coupler	General	300 360 580 700 880 960	width mm 450 600 900 1050 1250 1350	kg 354 380 469 514 598 639	EA 3 3 4 4 5 6	2.1m arm C C C C C C C C C C C	2.5m arm C C C C C	3.0m arm C C C C C	Okg cour 2.1m arm C C C C C	terweigh 2.5m arm C C C C C C C	3.0m arm C C C C
Direct fit	Without quick coupler	General	\$300 360 580 700 880 960 300	width mm 450 600 900 1050 1250 1350 450	kg 354 380 469 514 598 639 354	EA 3 3 4 4 5 6 3	2.1m arm C C C C C C	2.5m arm C C C C C C C	3.0m arm C C C C C C C	Okg cour 2.1m arm C C C C C C	terweight 2.5m arm C C C C C C C C C C	3.0m arm C C C C C
Direct fit	Without quick coupler	General purpose	L 300 360 580 700 880 960 300 360	width mm 450 600 900 1050 1250 1350 450 600	kg 354 380 469 514 598 639 354 380	EA 3 3 4 4 5 6 3 3	2.1m arm C C C C C C C C C C C C C C C C C C C	2.5m arm C C C C C C C C C C C C C C C C C C C	3.0m arm C C C C C C C	Okg cour 2.1m arm C C C C C C C	terweight 2.5m arm C C C C C C C C C C C C C C C C C C C	3.0m arm C C C C C C
Direct fit	Without quick coupler U type quick	General purpose General	\$300 360 580 700 880 960 300 360 580	width mm 450 600 900 1050 1250 1350 450 600 900	kg 354 380 469 514 598 639 354 380 469	EA 3 3 4 4 5 6 3 3 4	2.1m arm C C C C C C C C C C C C C C C C C C C	2.5m arm C C C C C C C C C C C C C C C C C C C	3.0m arm C C C C C C C C	Okg cour 2.1m arm C C C C C C C C	terweight 2.5m arm C C C C C C C C C C C C C C C C C C C	3.0m arm C C C C C C C
Direct fit buckets	Without quick coupler	General purpose	\$300 360 580 700 880 960 300 360 580	width mm 450 600 900 1050 1250 1350 450 600	kg 354 380 469 514 598 639 354 380	EA 3 3 4 4 5 6 3 3	2.1m arm C C C C C C C C C C C C C C C C C C C	2.5m arm C C C C C C C C C C C C C C C C C C C	3.0m arm C C C C C C C	Okg cour 2.1m arm C C C C C C C	terweight 2.5m arm C C C C C C C C C C C C C C C C C C C	3.0m arm C C C C C C 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 materal density

A 1 200~1 300 kg/m³ Coal, Caliche, Shale

B 1 400~1 600 kg/m³ Wet earth and clay, Limestone, Sandstone C 1 700~1 800 kg/m³ Granite, Wet sand, Well blasted rock

D 1 900 kg/m³ ~ Wet mud, Iron ore

LIFTING CAPACITY EC160EL

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.

For litting	capacity including	bucket, si	mpiy su													
		Lifting relate			5 m		0 m Across		5 m Across) m		5 m		ax. reach	
		ground		Along UC	Across UC	Along UC	UC	Along UC	UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
Boom:	5.2m	6.0 m	kg											*4 480	3 790	5.9
Arm:	2.3m	4.5 m	kg					*4 970	*4 970	*4 660	3 610			4 260	2 980	6.8
Shoe:	600mm	3.0 m	kg					*6 580	5 290	5 020	3 470			3 780	2 620	7.2
CWT:	2 750kg	1.5 m	kg					7 520	4 960	4 860	3 320			3 610	2 490	7.3
		0.0 m	kg					7 310	4 790	4 740	3 220			3 700	2 540	7.1
		-1.5 m	kg			*10 820	8 990	7 270	4 740	4 710	3 180			4 130	2 820	6.6
		-3.0 m	kg			*13 000	9 140	7 340	4 810					5 290	3 570	5.6
Boom:	5.2m	7.5 m	kg											*4 110	*4 110	4.8
Arm:	2.6m	6.0 m	kg							*4 150	3 710			*3 760	3 440	6.3
Shoe:	600mm	4.5 m	kg					*4 570	*4 570	*4 390	3 640			*3 680	2 770	7.1
CWT:	2 750kg	3.0 m	kg			*9 730	*9 730	*6 190	5 360	5 050	3 500	3 570	2 480	3 550	2 470	7.5
		1.5 m	kg					7 570	5 010	4 880	3 340	3 500	2 420	3 400	2 350	7.7
		0.0 m	kg			*5 620	*5 620	7 330	4 800	4 750	3 220			3 470	2 390	7.5
		-1.5 m	kg	*5 790	*5 790	*9 910	8 940	7 250	4 730	4 690	3 170			3 830	2 620	6.9
		-3.0 m	kg	*10 330	*10 330	*13 460	9 070	7 300	4 780					4 750	3 220	6.0
		-4.5 m	kg			*10 810	9 370							*7 450	5 230	4.4
Boom :	5.2m	7.5 m	kg											*3 470	*3 470	5.4
Arm:	3.0m	6.0 m	kg							*3 660	*3 660			*3 170	3 080	6.7
Shoe:	600mm	4.5 m	kg							*3 990	3 660			*3 110	2 530	7.5
CWT:	2 750kg	3.0 m	kg			*8 200	*8 200	*5 610	5 410	*4 720	3 500	3 570	2 480	*3 200	2 270	7.9
		1.5 m	kg			*5 660	*5 660	*7 430	5 030	4 870	3 330	3 480	2 400	3 140	2 160	8.0
		0.0 m	kg			*6 130	*6 130	7 310	4 770	4 720	3 190	3 410	2 330	3 200	2 190	7.8
		-1.5 m	kg	*5 290	*5 290	*9 280	8 810	7 190	4 670	4 640	3 120			3 480	2 370	7.3
		-3.0 m	kg	*8 980	*8 980	*13 880	8 920	7 210	4 690	4 660	3 130			4 200	2 840	6.5
		-4.5 m	kg			*11 770	9 170	7 380	4 840					6 300	4 190	5.0
Boom:	5.0m 2-piece	7.5 m	kg											*5 460	*5 460	4.1
Arm :	2.3m	6.0 m	kg					*6 470	5 840					*4 720	3 880	5.7
Shoe:	600mm	4.5 m	kg			*7 740	*7 740	*7 450	5 650	5 160	3 580			4 360	3 020	6.6
CWT:	2 750kg	3.0 m	kg					7 930	5 290	5 020	3 440			3 850	2 650	7.1
	-	1.5 m	kg					7 530	4 940	4 850	3 290			3 680	2 510	7.2
		0.0 m	kg					7 320	4 750	4 740	3 190			3 780	2 570	7.0
		-1.5 m	kg			*10 850	8 950	7 280	4 720	4 720	3 170			4 250	2 880	6.5
		-3.0 m	kg					*5 800	4 820							5.4
Boom:	5.0m 2-piece	7.5 m	kg					*4 700	*4 700					*4 260	*4 260	4.7
Arm :	2.6m	6.0 m	kg					*5 460	*5 460	*4 210	3 660			*3 720	3 510	6.1
Shoe:	600mm	4.5 m	kg			*5 780	*5 780	*6 260	5 720	5 210	3 620			*3 580	2 800	7.0
CWT:	2 750kg	3.0 m	kg			*12 620	10 130	8 010	5 360	5 050	3 470			3 600	2 480	7.4
		1.5 m	kg					7 590	4 990	4 870	3 310	3 490	2 390	3 460	2 360	7.5
		0.0 m	kg			*6 200	*6 200	7 340	4 770	4 750	3 190			3 540	2 410	7.4
		-1.5 m	kg			*10 640	8 890	7 260	4 700	4 700	3 150			3 930	2 670	6.8
		-3.0 m	kg					*6 430	4 780					*4 290	3 330	5.9
Boom :	5.0m 2-piece	7.5 m	kg					*4 560	*4 560					*3 520	*3 520	5.3
Arm :	3.0m	6.0 m	kg					*4 590	*4 590	*4 260	3 710			*3 130	3 130	6.6
Shoe:	600mm	4.5 m	kg					*5 050	*5 050	*5 010	3 640			*3 020	2 550	7.4
CWT:	2 750kg	3.0 m	kg			*11 540	10 420	*7 850	5 420	5 070	3 480	3 550	2 440	*3 060	2 280	7.8
	Ü	1.5 m	kg			*6 950	*6 950	7 630	5 020	4 870	3 300	3 470	2 370	3 190	2 170	7.9
		0.0 m	kg			*6 660	*6 660	7 320	4 740	4 720	3 160	3 410	2310	3 250	2 200	7.7
		-1.5 m	kg			*9 910	8 760	7 200	4 640	4 640	3 100			3 560	2 410	7.2
		-3.0 m	kg			*9 600	8 900	*7 080	4 680	4 690	3 140			*4 260	2 920	6.3
			- 9													

LIFTING CAPACITY EC160EL (with dozer blade)

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 h			5 m) m		5 m	6.0			5 m		ax. reach	
		related ground		Along	Across	Along	Across	Along	Across	Along	Across UC	Along	Across UC	Along UC	Across UC	r
Boom :	5.2m	6.0 m	kg	UC	UC	UC	UC	UC	UC	UC	00	UC	00	*4 480	4 220	5
Arm :	2.3m	4.5 m	kg					*4 970	*4 970	*4 660	4 030			*4 680	3 330	6
Shoe :	600mm	3.0 m	kg					*6 580	5 930	*5 320	3 890			*4 880	2 950	7
CWT:	2 750kg	1.5 m	kg					*8 240	5 600	*6 120	3 740			*5 310	2 810	-
••••	2 700kg	0.0 m	kg					*9 250	5 410	*6 740	3 630			*5 720	2 870	
		-1.5 m	kg			*10 820	10.280	*9 490	5 370	*6 950	3 600			*6 250	3 180	
		-3.0 m	kg			*13 000		*8 900	5 440	0 000	0 000			*6 950	4 030	
Boom :	5.2m	7.5 m	kg			10 000	10 440	0 300	0 440					*4 110	*4 110	
Arm :	2.6m	6.0 m								*4 150	4 130			*3 760	*3 760	
Shoe:	600mm	4.5 m	kg					*4 570	*4 570	*4 390	4 060			*3 680	3 110	
			kg			*0.720	*0.720					*4 000	0.700			
CWT:	2 750kg	3.0 m	kg			*9 730	*9 730	*6 190	6 000	*5 090	3 920	*4 000	2 790	*3 810	2 770	
		1.5 m	kg			*E 600	*E 600	*7 930	5 640	*5 930	3 760	*5 050	2 730	*4 140	2 650	
		0.0 m	kg	*E 700	*5 790	*5 620	*5 620	*9 090	5 430	*6 620	3 640			*4 740	2 690	
		-1.5 m	kg	*5 790		*9 910	*9 910	*9 490	5 360	*6 940	3 590			*5 910	2 960	
		-3.0 m	kg	10.330	10 330	*13 460		*9 100	5 410					*6 550	3 630	
		-4.5 m	kg			*10 810	10 680							*7 450	5 890	
Boom :	5.2m	7.5 m	kg							*0.000	*0.000			*3 470	*3 470	
Arm :	3.0m	6.0 m	kg							*3 660	*3 660			*3 170	*3 170	
Shoe:	600mm	4.5 m	kg							*3 990	*3 990			*3 110	2 840	
CWT:	2 750kg	3.0 m	kg			*8 200	*8 200	*5 610	*5 610	*4 720	3 920	*4 400	2 780	*3 200	2 560	
		1.5 m	kg			*5 660	*5 660	*7 430	5 660	*5 620	3 740	*4 830	2 700	*3 440	2 440	
		0.0 m	kg			*6 130	*6 130	*8 770	5 400	*6 390	3 600	*5 230	2 640	*3 900	2 480	
		-1.5 m	kg	*5 290	*5 290	*9 280	*9 280	*9 370	5 300	*6 830	3 530			*4 740	2 690	
		-3.0 m	kg	*8 980	*8 980	*13 880		*9 220	5 310	*6 710	3 550			*6 100	3 210	
		-4.5 m	kg			*11 770	10 470	*7 900	5 470					*6 940	4 730	
Boom:	5.0m 2-piece	7.5 m	kg											*5 460	*5 460	
Arm :	2.3m	6.0 m	kg					*6 470	*6 470					*4 720	4 330	
Shoe :	600mm	4.5 m	kg			*7 740	*7 740	*7 450	6 290	*6 280	4 000			*4 560	3 390	
CWT:	2 750kg	3.0 m	kg					*8 540	5 930	*6 630	3 860			*4 670	2 980	
		1.5 m	kg					*9 390	5 580	*6 930	3 710			*5 060	2 840	
		0.0 m	kg					*9 330	5 390	*6 820	3 610			*5 490	2910	
		-1.5 m	kg			*10 850	10 250	*8 230	5 350	*5 940	3 590			*5 170	3 250	
		-3.0 m	kg					*5 800	5 450							
Boom:	5.0m 2-piece	7.5 m	kg					*4 700	*4 700					*4 260	*4 260	
Arm:	2.6m	6.0 m	kg					*5 460	*5 460	*4 210	4 080			*3 720	*3 720	
Shoe:	600mm	4.5 m	kg			*5 780	*5 780	*6 260	*6 260	*5 750	4 040			*3 580	3 150	
CWT:	2 750kg	3.0 m	kg			*12 620	11 470	*8 280	6 000	*6 490	3 890			*3 640	2 800	
		1.5 m	kg					*9 270	5 630	*6 870	3 730	*4 220	2 700	*3 890	2 670	
		0.0 m	kg			*6 200	*6 200	*9 420	5 400	*6 880	3 610			*4 390	2 730	
		-1.5 m	kg			*10 640	10 190	*8 540	5 340	*6 210	3 570			*4 970	3 020	
		-3.0 m	kg					*6 430	5 410					*4 290	3 760	
Boom :	5.0m 2-piece	7.5 m	kg					*4 560	*4 560					*3 520	*3 520	
Arm :	3.0m	6.0 m	kg					*4 590	*4 590	*4 260	4 130			*3 130	*3 130	
Shoe :	600mm	4.5 m	kg					*5 050	*5 050	*5 010	4 060			*3 020	2 870	
CWT:	2 750kg	3.0 m	kg			*11 540	*11 540	*7 850	6 070	*6 240	3 910	*4 180	2 750	*3 060	2 570	
	Ü	1.5 m	kg			*6 950	*6 950	*9 000	5 650	*6 710	3 720	*5 020	2 680	*3 240	2 460	
		0.0 m	kg			*6 660	*6 660	*9 400	5 380	*6 860	3 580	*5 060	2 620	*3 620	2 500	
		-1.5 m	kg			*9 910	*9 910	*8 810	5 270	*6 420	3 510			*4 320	2 730	
			9			*9 600		*7 080	5 310		3 550			*4 260	3 310	

LIFTING CAPACITY EC160ENL

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.

For litting	capacity including	ĭ		1						<u> </u>						
		Lifting relate		Along	5 m Across	Along	0 m Across	Along	5 m Across	6.0 Along	Across	Along	5 m Across	Along	ax. reach Across	
		ground		/ UC	UC	ÜC	UC	UC	UC	TUC	UC	UC	ÜC	ÜC	ÜC	m
Boom:	5.2m	6.0 m	kg											*4 480	3 370	5.9
Arm:	2.3m	4.5 m	kg					*4 970	*4 970	*4 660	3 210			4 190	2 650	6.8
Shoe:	500mm	3.0 m	kg					*6 580	4 670	4 930	3 080			3 700	2 320	7.2
CWT:	2 750kg	1.5 m	kg					7 380	4 350	4 770	2 930			3 540	2 200	7.3
		0.0 m	kg					7 180	4 170	4 650	2 830			3 630	2 230	7.1
		-1.5 m	kg			*10 820	7 670	7 130	4 130	4 620	2 790			4 050	2 470	6.6
		-3.0 m	kg			*13 000	7 810	7 210	4 200					5 190	3 140	5.6
Boom:	5.2m	7.5 m	kg											*4 110	*4 110	4.8
Arm:	2.6m	6.0 m	kg							*4 150	3 310			*3 760	3 070	6.3
Shoe :	500mm	4.5 m	kg					*4 570	*4 570	*4 390	3 240			*3 680	2 460	7.1
CWT:	2 750kg	3.0 m	kg			*9 730	8 640	*6 190	4 730	4 960	3 100	3 510	2 200	3 480	2 180	7.5
		1.5 m	kg					7 430	4 390	4 790	2 950	3 440	2 130	3 330	2 070	7.7
		0.0 m	kg			*5 620	*5 620	7 190	4 190	4 660	2 830			3 410	2 100	7.5
		-1.5 m	kg	*5 790	*5 790	*9 910	7 620	7 120	4 120	4 600	2 780			3 750	2 300	6.9
		-3.0 m	kg	*10 330	*10 330	*13 460	7 750	7 170	4 170					4 660	2 830	6.0
		-4.5 m	kg			*10 810	8 030							*7 450	4 570	4.4
Boom :	5.2m	7.5 m	kg											*3 470	*3 470	5.4
Arm :	3.0m	6.0 m	kg							*3 660	3 340			*3 170	2 740	6.7
Shoe :	500mm	4.5 m	kg							*3 990	3 260			*3 110	2 240	7.5
CWT:	2 750kg	3.0 m	kg			*8 200	*8 200	*5 610	4 780	*4 720	3 110	3 500	2 190	*3 200	2 000	7.9
	ŭ	1.5 m	kg			*5 660	*5 660	*7 430	4 410	4 780	2 930	3 410	2 1 1 0	3 080	1 900	8.0
		0.0 m	kg			*6 130	*6 130	7 170	4 160	4 630	2 800	3 340	2 040	3 140	1 920	7.8
		-1.5 m	kg	*5 290	*5 290	*9 280	7 500	7 050	4 060	4 550	2 730			3 410	2 080	7.3
		-3.0 m	kg	*8 980		*13 880	7 600	7 070	4 080	4 560	2 740			4 110	2 490	6.5
		-4.5 m	kg			*11 770	7 840	7 240	4 220					6 180	3 670	5.0
Boom :	5.0m 2-piece	7.5 m	kg											*5 460	*5 460	4.1
Arm :	2.3m	6.0 m	kg					*6 470	5 190					*4 720	3 450	5.7
Shoe:	500mm	4.5 m	kg			*7 740	*7 740	*7 450	5 000	5 070	3 170			4 280	2 670	6.6
CWT:	2 750kg	3.0 m	kg					7 790	4 650	4 930	3 040			3 770	2 330	7.1
		1.5 m	kg					7 400	4 320	4 760	2 890			3 610	2 210	7.2
		0.0 m	kg					7 180	4 130	4 650	2 790			3 710	2 260	7.0
		-1.5 m	kg			*10 850	7 610	7 140	4 100	4 630	2 770			4 170	2 520	6.5
		-3.0 m	kg					*5 800	4 200	. 000	2				2 020	5.4
Boom :	5.0m 2-piece	7.5 m	kg					*4 700	*4 700					*4 260	*4 260	4.7
Arm :	2.6m	6.0 m	kg					*5 460	5 260	*4 210	3 250			*3 720	3 120	6.1
Shoe:	500mm	4.5 m	kg			*5 780	*5 780	*6 260	5 070	5 120	3 210			*3 580	2 480	7.0
CWT:	2 750kg	3.0 m	kg			*12 620	8 730	7 870	4 720	4 960	3 070			3 540	2 190	7.4
OVV 1 .	2 7 00kg	1.5 m				12 020	0 7 00	7 450	4 360	4 780	2 910	3 420	2 100	3 390	2 080	7.5
		0.0 m	kg kg			*6 200	*6 200	7 200	4 150	4 650	2 800	3 420	2 100	3 480	2 110	7.4
		-1.5 m	kg			*10 640	7 560	7 130	4 090	4 610	2 760			3 860	2 340	6.8
		-3.0 m				10 040	7 300	*6 430	4 160	4010	2 700			*4 290	2 920	5.9
Doom .	5.0m 0 minos		kg					*4 560	*4 560					*3 520	*3 520	
Boom:	5.0m 2-piece 3.0m	7.5 m 6.0 m	kg					*4 590	*4 590	*4 260	3 300			*3 130		5.3
Arm :	3.0m 500mm		kg												2 770	6.6
Shoe:		4.5 m	kg			*11 540	0.000	*5 050	*5 050	*5 010	3 230	2 400	0.150	*3 020	2 250	7.4
CWT:	2 750kg	3.0 m	kg			*11 540	9 000	*7 850	4 780	4 980	3 080	3 480	2 150	*3 060	2 000	7.8
		1.5 m	kg			*6 950	*6 950	7 490	4 390	4 780	2 900	3 400	2 070	3 130	1 900	7.9
		0.0 m	kg			*6 660	*6 660	7 180	4 120	4 620	2 760	3 340	2 010	3 190	1 930	7.7
		-1.5 m	kg			*9 910	7 440	7 060	4 020	4 550	2 700			3 490	2 100	7.2
		-3.0 m	kg			*9 600	7 570	*7 080	4 060	4 600	2 740			4 260	2 550	6.3

LIFTING CAPACITY EC160ENL (with dozer blade)

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 guick coupler from the following values

		Lifting I			5 m) m		5 m	6.0			5 m		ax. reach	_
		related ground		Along UC	Across UC	n										
Boom :	5.2m	6.0 m	kg	00	- 00	00	- 00	- 00	- 00	00	00	- 00	- 00	*4 480	3 770	5.
Arm :	2.3m	4.5 m	kg					*4 970	*4 970	*4 660	3 590			*4 680	2 970	6
Shoe:	500mm	3.0 m	kg					*6 580	5 240	*5 320	3 460			*4 880	2 620	7
CWT:	2 750kg	1.5 m	kg					*8 240	4 920	*6 120	3 310			*5 310	2 490	7
	3	0.0 m	kg					*9 250	4 740	*6 740	3 200			*5 720	2 530	7
		-1.5 m	kg			*10 820	8 800	*9 490	4 700	*6 950	3 170			*6 250	2 810	6
		-3.0 m	kg			*13 000	8 940	*8 900	4 770					*6 950	3 550	5
Boom :	5.2m	7.5 m	kg											*4 110	*4 110	
Arm :	2.6m	6.0 m	kg							*4 150	3 690			*3 760	3 430	6
Shoe :	500mm	4.5 m	kg					*4 570	*4 570	*4 390	3 630			*3 680	2 770	7
CWT:	2 750kg	3.0 m	kg			*9 730	*9 730	*6 190	5 310	*5 090	3 480	*4 000	2 480	*3 810	2 460	-
		1.5 m	kg					*7 930	4 960	*5 930	3 330	*5 050	2 420	*4 140	2 340	-
		0.0 m	kg			*5 620	*5 620	*9 090	4 760	*6 620	3 210			*4 740	2 380	-
		-1.5 m	kg	*5 790	*5 790	*9 910	8 750	*9 490	4 690	*6 940	3 160			*5 910	2 610	(
		-3.0 m	kg	*10 330			8 880	*9 100	4 730					*6 550	3 210	(
		-4.5 m	kg			*10 810	9 170							*7 450	5 170	
Boom :	5.2m	7.5 m	kg											*3 470	*3 470	
Arm :	3.0m	6.0 m	kg							*3 660	*3 660			*3 170	3 070	
Shoe:	500mm	4.5 m	kg							*3 990	3 640			*3 110	2 530	
CWT:	2 750kg	3.0 m	kg			*8 200	*8 200	*5 610	5 360	*4 720	3 490	*44 00	2 470	*3 200	2 260	
	2 700kg	1.5 m	kg			*5 660	*5 660	*7 430	4 980	*5 620	3 310	*4 830	2 390	*3 440	2 160	
		0.0 m	kg			*6 130	*6 130	*8 770	4 730	*6 390	3 180	*5 230	2 330	*3 900	2 180	
		-1.5 m	kg	*5 290	*5 290	*9 280	8 620	*9 370	4 630	*6 830	3 110	0 200	2 000	*4 740	2 370	
		-3.0 m	kg	*8 980		*13 880	8 720	*9 220	4 640	*6 710	3 120			*6 100	2 830	
		-4.5 m	kg	0 300	0 300	*11 770	8 970	*7 900	4 790	0710	0 120			*6 940	4 160	
Boom :	5.0m 2-piece	7.5 m	kg			11770	0010	7 000	1700					*5 460	*5 460	
Arm :	2.3m	6.0 m	kg					*6 470	5 770					*4 720	3 860	
Shoe:	500mm	4.5 m	kg			*7 740	*7 740	*7 450	5 580	*6 280	3 560			*4 560	3 010	
CWT:	2 750kg	3.0 m	kg			7 7 40	7 7 40	*8 540	5 230	*6 630	3 420			*4 670	2 640	
OVVI .	2 7 00kg	1.5 m						*9 390	4 890	*6 930	3 280			*5 060	2 510	
		0.0 m	kg					*9 330	4 710	*6 820	3 170			*5 490	2 560	
		-1.5 m	kg			*10 850	8 750	*8 230	4 670	*5 940	3 150			*5 170	2 870	
		-3.0 m	kg kg			10 000	0 7 30	*5 800	4 770	3 340	3 130			3 170	2010	
Boom :	5.0m 2-piece	7.5 m						*4 700	*4 700					*4 260	*4 260	
Arm :	2.6m	6.0 m	kg					*5 460	*5 460	*4 210	3 640			*3 720	3 490	
Shoe:	500mm	4.5 m	kg kg			*5 780	*5 780	*6 260	5 660	*5 750	3 600			*3 580	2 790	
CWT:	2 750kg	3.0 m				*12 620	9 900	*8 280	5 300	*6 490	3 460			*3 640	2 480	
J V V I .	2 7 50kg	1.5 m	kg			12 020	9 900	*9 270	4 940	*6 870		*4 220	2 380	*3 890	2 360	
		0.0 m	kg			*6 200	*6 200	*9 420	4 720	*6 880	3 180	4 220	2 300	*4 390		
		-1.5 m	kg			*10 640	8 700	*8 540	4 660	*6 210	3 140			*4 970	2 410 2 660	
		-3.0 m	kg			10 040	8 700	*6 430		0210	3 140				3 320	
	F 0 0:		kg						4 730					*4 290		
Boom :	•	7.5 m	kg					*4 560	*4 560	*4.000	0.000			*3 520	*3 520	
Arm:	3.0m	6.0 m	kg					*4 590	*4 590		3 690			*3 130	3 110	
Shoe:	500mm	4.5 m	kg			*11 F40	10 100	*5 050	*5 050	*5 010	3 620	*4 100	0.440	*3 020	2 540	
CWT:	2 750kg	3.0 m	kg			*11 540		*7 850	5 360	*6 240	3 460	*4 180	2 440	*3 060	2 270	
		1.5 m	kg			*6 950	*6 950	*9 000	4 960	*6 710	3 290	*5 020	2 360	*3 240	2 170	
		0.0 m	kg			*6 660	*6 660	*9 400	4 690	*6 860	3 150	*5 060	2 300	*3 620	2 200	
		-1.5 m	kg			*9 910	8 570	*8 810	4 590	*6 420	3 080			*4 320	2 400	

LIFTING CAPACITY EC180EL

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.

For lifting	capacity including	bucket, si	mply su	ubtract acti	ual weight	1		et or the bi	ucket with			ne followir	ng values.			
		Lifting relate			5 m		0 m		5 m) m		5 m		lax. reach	
		ground		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
Boom:	5.2m	6.0 m	kg											*4 480	4 090	5.9
Arm:	2.3m	4.5 m	kg					*4 970	*4 970	*4 660	3 900			*4 680	3 230	6.8
Shoe:	600mm	3.0 m	kg					*6 580	5 720	*5 320	3 760			4 370	2 860	7.2
CWT:	3 200kg	1.5 m	kg					*8 240	5 390	5 640	3 620			4 180	2 720	7.3
		0.0 m	kg					8 590	5 210	5 520	3 510			4 300	2 780	7.1
		-1.5 m	kg			*10 820	9 770	8 540	5 170	5 480	3 480			4 800	3 080	6.6
		-3.0 m	kg			*13 000	9 920	8 620	5 240					6 160	3 890	5.6
Boom:	5.2m	7.5 m	kg											*4 110	*4 110	4.8
Arm :	2.6m	6.0 m	kg							*4 150	4 000			*3 760	3 720	6.3
Shoe :	600mm	4.5 m	kg					*4 570	*4 570	*4 390	3 940			*3 680	3 010	7.1
CWT:	3 200kg	3.0 m	kg			*9 730	*9 730	*6 190	5 780	*5 090	3 790	*4 000	2 710	*3 810	2 690	7.5
	Ü	1.5 m	kg					*7 930	5 430	5 660	3 630	4 060	2 640	3 940	2 570	7.7
		0.0 m	kg			*5 620	*5 620	8 610	5 220	5 530	3 510			4 030	2 610	7.5
		-1.5 m	kg	*5 790	*5 790	*9 910	9 720	8 530	5 160	5 470	3 470			4 450	2 860	6.9
		-3.0 m	kg		*10 330		9 850	8 580	5 200					5 530	3 510	6.0
		-4.5 m	kg	10 000	10 000	*10 810		0 000	0 200					*7 450	5 670	4.4
Boom :	5.2m	7.5 m	kg			10010	10 100							*3 470	*3 470	5.4
Arm :	3.0m	6.0 m	kg							*3 660	*3 660			*3 170	*3 170	6.7
Shoe:	600mm	4.5 m	kg							*3 990	3 950			*3 110	2 760	7.5
CWT:	3 200kg	3.0 m				*8 200	*8 200	*5 610	*5 610	*4 720	3 800	4 130	2 700	*3 200	2 480	7.9
OVVI.	3 200kg	1.5 m	kg			*5 660	*5 660	*7 430	5 450	*5 620	3 620	4 040	2 620	*3 440	2 370	8.0
		0.0 m	kg			*6 130	*6 130	8 590	5 200	5 500	3 480	3 970	2 550	3 720	2 400	7.8
			kg	*E 000	*5 290					5 420		3910	2 550			
		-1.5 m	kg	*5 290		*9 280	*9 280	8 470	5 090		3 410			4 060	2 600	7.3
		-3.0 m	kg	*8 980	8 980	*13 880	9 690	8 490	5 110	5 430	3 420			4 890	3 1 1 0	6.5
		-4.5 m	kg			*11 770	9 950	*7 900	5 260					*6 940	4 560	5.0
Boom:	•	7.5 m	kg					+0 470	0.000					*5 460	*5 460	4.1
Arm :	2.3m	6.0 m	kg					*6 470	6 260					*4 720	4 190	5.7
Shoe:	600mm	4.5 m	kg			*7 740	*7 740	*7 450	6 070	5 950	3 870			*4 560	3 280	6.6
CWT:	3 200kg	3.0 m	kg					*8 540	5 710	5 810	3 740			4 450	2 880	7.1
		1.5 m	kg					8 830	5 370	5 640	3 590			4 270	2 750	7.2
		0.0 m	kg					8 610	5 180	5 520	3 480			4 400	2 810	7.0
		-1.5 m	kg			*10 850	9 730	*8 230	5 140	5 500	3 460			4 950	3 140	6.5
		-3.0 m	kg					*5 800	5 240							5.4
Boom:	•	7.5 m	kg					*4 700	*4 700					*4 260	*4 260	4.7
Arm :	2.6m	6.0 m	kg					*5 460	*5 460	*4 210	3 950			*3 720	*3 720	6.1
Shoe:	600mm	4.5 m	kg			*5 780	*5 780	*6 260	6 140	*5 750	3 910			*3 580	3 050	7.0
CWT:	3 200kg	3.0 m	kg			*12 620	10 910	*8 280	5 790	5 840	3 770			*3 640	2 710	7.4
		1.5 m	kg					8 890	5 420	5 660	3 610	4 050	2 610	*3 890	2 590	7.5
		0.0 m	kg			*6 200	*6 200	8 630	5 190	5 530	3 490			4 120	2 640	7.4
		-1.5 m	kg			*10 640	9 670	*8 540	5 130	5 490	3 450			4 580	2 920	6.8
		-3.0 m	kg					*6 430	5 200					*4 290	3 630	5.9
Boom:	5.0m 2-piece	7.5 m	kg					*4 560	*4 560					*3 520	*3 520	5.3
Arm:	3.0m	6.0 m	kg					*4 590	*4 590	*4 260	4 000			*3 130	*3 130	6.6
Shoe:	600mm	4.5 m	kg					*5 050	*5 050	*5 010	3 930			*3 020	2 780	7.4
CWT:	3 200kg	3.0 m	kg			*11 540	11 200	*7 850	5 850	5 860	3 780	4 120	2 670	*3 060	2 490	7.8
		1.5 m	kg			*6 950	*6 950	8 930	5 440	5 660	3 600	4 030	2 590	*3 240	2 380	7.9
		0.0 m	kg			*6 660	*6 660	8 610	5 170	5 500	3 450	3 970	2 530	*3 620	2 420	7.7
		-1.5 m	kg			*9 910	9 540	8 480	5 060	5 430	3 390			4 150	2 640	7.2
		-3.0 m	kg			*9 600	*9 600	*7 080	5 100	*4 880	3 430			*4 260	3 190	6.3
		· · · ·											_			

Equipment.

	EC160E	EC190E
Engino	ECTOOL	ECIOUE
Engine		
Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged		
air cooler that meets Tier 4f EU (Stage IV)	•	•
requirements		
Air filter with indicator	•	•
Air intake heater	•	•
Cyclone pre-cleaner	•	•
Electric engine shut-off	•	•
Fuel filter and water separator	•	
Fuel filler pump: 35 l/min	•	•
Alternator, 80 A	•	•
,		_
Standard cooling system		
Electric/Electronic control system		
Contronics		
Advanced mode control system	•	•
Self-diagnostic system	•	•
Machine status indication	•	•
GSM/GPS Caretrack and Caretrack	•	•
subscription		
Engine speed sensing power control	•	•
Automatic idling system	•	•
One-touch power boost	•	•
Safety stop/start function	•	•
Adjustable LCD color monitor	•	•
Master electrical disconnect switch	•	•
Engine restart prevention circuit	•	•
High-capacity halogen lights:		
Frame-mounted: 2, Boom-mounted: 1	•	•
Batteries, 2 x 12 V / 110 Ah	•	•
Start motor, 24 V / 5.5 kW	•	•
Hydraulic system		
Boom hose rupture valve with overload		
warning device	•	•
Arm hose rupture valve	•	•
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	•	•
Boom cylinders (x2)	•	•
Cylinder cushioning	•	•
Cylinder contamination seals	•	•
Auxiliary hydraulic valve	•	•
Automatic two-speed travel motors	•	•
Hydraulic oil, longlife oil 46	•	•
Frame		
Access way with handrail	•	•
Tool storage area	•	•
Punched metal anti-slip plates	•	•
Under cover (heavy duty)	•	•
2 750kg counterweight		_
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	_	

	EC160E	EC180E
Cab and interior		
ROPS (ISO12117-2) certified cab with fixed hatch	•	•
Silicon oil and rubber mounts with spring	•	•
Control lock out lever	•	•
Travel pedals and hand levers	•	•
Adjustable operator seat with heater and joystick control console	•	•
Control joysticks with 4 switches each	•	•
Heater & air-conditioner, automatic	•	•
Flexible antenna	•	•
Radio with AUX, USB Jack and Bluetooth	•	•
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	•	•
Master key	•	•
Jndercarriage (1)		
Under cover (heavy duty)	•	•
Hydraulic track adjusters Greased and sealed track link	•	
Track Guard	•	•
Digging equipment		
5.2 m mono boom	•	•
2.6 m arm	•	•
Linkage	•	•
Manual centralized lubrication	•	•
Service		
Tool kit, daily maintenance	•	•
Tool Kit, daily maintenance		
OPTIONAL EQUIPMENT		
	EC160E	EC180E
Engine		
Block heater: 120 V or 240 V	•	•
		•
Diesel coolant heater, 5 kW	•	
Water separator with heater	•	•
Water separator with heater Auto engine shutdown	•	•
Water separator with heater Auto engine shutdown Tropical cooling system	•	•
Water separator with heater Auto engine shutdown Tropical cooling system Electric	•	•
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights:	•	•
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1	•	•
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1 Extra work lights (Halogen or LED):	•	•
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1 Extra work lights (Halogen or LED): Boom-mounted 1		•
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1 Extra work lights (Halogen or LED): Boom-mounted 1 Cab-mounted 3	•	
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1 Extra work lights (Halogen or LED): Boom-mounted 1 Cab-mounted 3 Counterweight-mounted 1		
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1 Extra work lights (Halogen or LED): Boom-mounted 1 Cab-mounted 3 Counterweight-mounted 1 Travel alarm		•
Water separator with heater Auto engine shutdown Tropical cooling system Electric High-capacity LED lights: Frame-mounted: 2, Boom-mounted: 1 Extra work lights (Halogen or LED): Boom-mounted 1 Cab-mounted 3 Counterweight-mounted 1		

OPTIONAL EQUIPMENT		
	EC160E	EC180E
Hydraulic system		
Boom float function with HRV	•	•
Boom float function without HRV	•	•
Pilot control pattern change	•	•
Hydraulic piping:		
Work tool management system (up to 20 programmable memories)	•	•
Breaker & shear, 1 or 2 pump flow	•	•
Slope & rotator (40lpm or 60lpm)	•	•
Extra for slope & rotator	•	•
Grapple	•	•
Oil leak (drain) line	•	•
Quick coupler	•	•
Additional return filter	•	•
Breaker & shear pressure pre-setting	•	•
Volvo hydraulic quick coupler S1, S6	•	•
Volvo hydraulic quick coupler VQC- HU,DR16	•	•
Volvo hydraulic quick coupler RQC-HD, Steelwrist S60	•	•
Volvo hydraulic quick coupler RQC-HD, Steelwrist S70		•
Hydraulic oil, biodegradable 46	•	•
Hydraulic oil, longlife oil 32, 68	•	•

	EC160E	EC180E
Cab and interior		
ROPS (ISO12117-2) certified cab with	_	
openable roof hatch	•	•
Fabric seat without heater	•	•
Fabric seat with heater and air suspension	•	•
Control joysticks with semi-long	•	•
Control joysticks with 3 switch & 1 propotional	•	•
Straight travel pedal	•	•
Cab-mounted falling object guard (FOG)	•	•
Cab-mounted falling object protective	_	_
structure (FOPS)		
Anti-vandalism kit	•	•
Safety net for front window	•	•
Side view camera	•	•
Smoker kit (ashtray and lighter)	•	•
Sunlight protection, roof (steel)	•	•
Lower wiper with intermittent control	•	•
Specific key	•	•
Undercarriage		
Dozer blade	•	
500/600/700/800/900 mm shoe with	_	
triple grousers		
Digging equipment		
5.0 m 2-piece boom	•	•
2.3 m, 3.0 m arm	•	•
Linkage with lifting eye	•	•
Service		
Tool kit, full scale	•	•

Selection of Volvo optional equipment

Auto engine shutdown



Two-piece boom



Diesel coolant heater



LED lights



Fuel filler pump



Falling Objects Guard (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.



Volvo Construction Equipment

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