

Volvo Construction Equipment Building Tomorrow



Volvo Compact Excavators 1.73-2.10 t 16.3 hp



Light work of tough jobs

A small machine packed with big features, the EC18E is designed to promote low operating costs. Built for durability and easy to service, this compact excavator will make light work of tough jobs.

Small but tough

The unique high-profile counterweight design is made from three strong pieces of cast iron which wrap around the rear of the machine, protecting all vital components. All-around steel panels, recessed 10mm from the counterweight, offer further protection.



Best-in-class serviceability

Complete maintenance tasks with speed thanks to the hinged fuel tank which enables an impressive ease of access to the engine compartment, and easy to locate daily check points. A 50-hour greasing interval further contributes towards the bestin-class serviceability of this machine.



Safety first

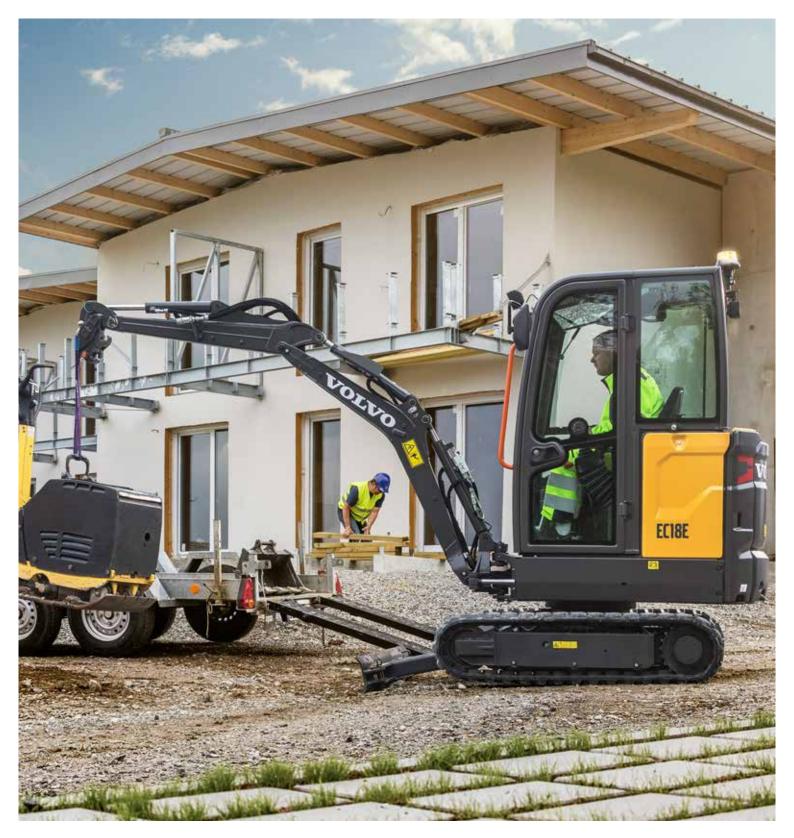
Safety is built-in to the machine with a ROPS/TOPS/FOPS cab and canopy, a large entrance including high visibility step, and an orange seatbelt as standard for easy checks by site managers.



The operator's choice

The roomy and uncluttered cab is designed to keep operators comfortable and productive, while its flat floor makes it easy to keep clean. Superior visibility, simple layout of the controls, fingertip controls and large travel pedals contribute towards the great ease of operation.





SMALL MACHINE, BIG PERFORMANCE

Take performance to a new level, with a 13% increase in traction force and 2 130kg of combined digging forces. The 11% longer undercarriage contributes to even better all-around lifting capacity and stability, compared to the previous generation. Add in the smooth combination of movements which make grading jobs easier, as well as the ability to work close to the blade, and completing tasks on site has never been quicker.

The ultimate all-arounder

Go where other machines cannot thanks to the compact design of the EC18E. Easy to operate and easy to transport, this 1.8t excavator is the perfect choice when a compact machine is right for your application.



Transport with ease

Transportation of the machine is safe and secure, thanks to its light weight and convenient design. With automatic slew lock and four easily accessed large tie-down points on the upper frame, the machine can be safely transported on a small trailer with up to three buckets and a hydraulic breaker, while maintaining a total transport weight of less than 2t.



Smooth loading

Thanks to its optimized weight balance, redesigned undercarriage with longer tracks, automatic two speed travel and large hydraulic pedals, the EC18E will smoothly load on to a trailer. Carry multiple buckets with ease with the Volvo bucket transportation system.



Compact by design

With a variable undercarriage that retracts to less than 1m and expands up to 1.35m, combined with a reduced machine height to less than 2.35m, you can count on the compact excavator to deliver superior performance when working in confined spaces. The machine design ensures that the right frame corner, swing post and cylinder stay within the tracks, resulting in maximum visibility and a reduced risk of machine damage when working alongside obstacles.



Perfect control

Experience precise, smooth and effortless command of the boom offset and auxiliary hydraulic flows with proportional fingertip controls. The easy-to-use joystick allows you to fine-tune the maximum hydraulic flow of any attachment to ensure ideal speed and power for any task.

Compact versatility

SMALL MACHINE, BIG PERFORMANCE

- 13% increase in traction force
- 2 130 kg combined digging forces
- Improved lifting capacity by an average of 22% to the front
- 140mm increase in digging depth

SMALL BUT TOUGH

- All-around steel panels **NEW**
- High-profile cast counterweight A VOLVO EXCLUSIVE
- Boom cylinder on top
- Protected hoses, routed inside the boom
- In-track boom swing



SAFETY FIRST

- High visibility entry step and cab handrail, orange seatbelt **A VOLVO EXCLUSIVE**
- 4 large easily accessible tie-down points on the upper frame **NEW**
- Controls lock options (switch, seat operator presence or buckled seatbelt sensor)

A VOLVO EXCLUSIVE

• Easy entrance-exit to cab

VERSATILE PERFORMANCE

- Secondary accessory circuit A VOLVO EXCLUSIVE
- Double acting circuit for hydraulic quick coupler NEW
- Variable undercarriage, under 1-meter wide

THE OPERATOR'S CHOICE

- Easy front window opening with lower window removal and storage ability
 NEW
- Fingertip controls, with adjustable hydraulic flow
 A VOLVO EXCLUSIVE
- Simple controls layout
- Automatic 2-speed travel
- Smooth combined movements



MAXIMIZE PROFITABILITY

- Convenient access to engine compartment thanks to hinged fuel tank A VOLVO EXCLUSIVE
- Auto engine shutdown and auto-idle (options)
- A VOLVO EXCLUSIVE
- All-around flat windows
- 50-hour greasing intervals
- Patented hydraulic filter

THE COMPLETE PACKAGE

- Range of Volvo buckets and quick couplers
- Matched Volvo breaker
- Genuine Volvo Parts
- Volvo Financial Services

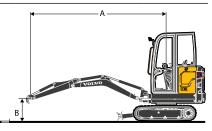
Volvo EC18E in detail

Engino		
Engine		
Engine		D0.9A
Max. power at	r/min	2 300
Gross	kW	12
	hp	16.3
		2534 / SAE J1995
Max. torque	Nm	52
at engine speed	r/min	1800
No. of cylinders		3
Displacement	cm ³	898
Bore	mm	72
Stroke	mm	73.6
Compression ratio		24
Electrical system		
Voltage	V	12
Battery	V	1 x 12
Battery capacity	Ah	42 - 70
Alternator	V/Ah	12/40
Swing system		
Max, slew speed	r/min	9.5
Max, slew torque	daNm	243
Undercarriage		
Bottom/top rollers per side		3/0
Track tension		By grease piston
Blade (width x height)	mm	1 340 x 230
Digging Performances		
Standard bucket width (blade, W/O side cutter)	mm	450
Standard bucket mass	kg	33
Standard bucket rated capacity	1	36
Bucket rotation	٥	196
Bucket breakout force (ISO)	daN	1 2 9 0
Short arm tearout force (ISO)	daN	795
Long arm tearout force (ISO)	daN	695

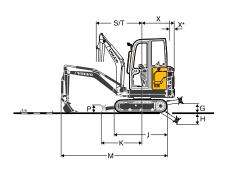
Weight and Ground Pressure		
Operating weight according to ISO 6016	kg	1 810
Ground pressure (cab)	kPa	28.4
Transport weight	kg	1 735
With rubber tracks	mm	230
With short arm	mm	950
With fuel tank capacity	%	100
With canopy	-kg	84
With long arm	+kg	4
With long arm and heavy counterweight	+kg	38
With steel tracks	+kg	78
Hydraulic system		
Pump type		Piston pump /
		Gear pump
Maximum system flow	l/min	48/34
Maximum flow for accessories	l/min	43/30
Maximum flow for 2nd accessory circuit (option)	l/min	23
Maximum operating pressure	MPa	17
Travel System		
Max, drawbar pull	daN	1 300
Max. travel speed low	km/h	1.8 / 2.5
Max. travel speed high	km/h	3.5/4.6
Gradeability	0	30
Service Refill		
Fuel tank	1	21
Hydraulic system, total	I	21
Hydraulic tank	1	15
Sound Level		
Interior sound level according to ISO 6396		
LpA	dB(A)	78
External sound level according to ISO 6395 (2000/14/EC) and 474-1:2006 +A1:200	and EU Nois	se Directive
LwA	dB(A)	93

LIFTING CAPACITY EC18E

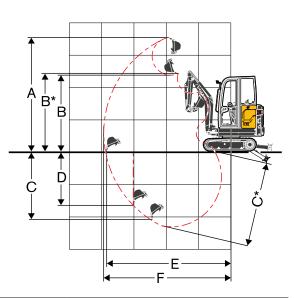
These capacities are given for a machine equipped with a cabin, rubber tracks and without a bucket or quick coupler. The below values are in compliance with ISO standard 10567. They do not exceed 75% of the tipping load or 87% of the hydraulic limit with the machine on firm level ground. Loads marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load. Caution: In accordance with EN 474-5, the machine must be equipped to carry out handling operations. It is the operator's obligation to know and follow the applicable national and local safety regulations.



			Lifting point radius (A)							
) m	3.	0 m	Max			
	Lifting point height (B) m							¢]□]≎	Max. m	
	2	kg	-	-	-	-	278*	278*	2.95	
Arm: 950mm	1	kg	448*	448*	292*	292*	263*	263*	3.32	
+ Dozer blade up	0	kg	542*	542*	294*	294*	247*	247*	3.28	
	-1	kg	423*	423*	-	-	239*	239*	2.81	
	2	kg	-	-	-	-	278*	278*	2.95	
Arm: 950mm	1	kg	448*	448*	292*	292*	263*	263*	3.32	
+ Dozer blade down	0	kg	542*	542*	294*	294*	247*	247*	3.28	
	-1	kg	423*	423*	-	-	239*	239*	2.81	
Arm: 950mm	2	kg	-	-	-	-	278*	278*	2.95	
+ Dozer blade down	1	kg	448*	448*	292*	292*	263*	263*	3.32	
+ Heavy counterweight	0	kg	542*	542*	294*	294*	247*	247*	3.28	
	-1	kg	423*	423*	-	-	239*	239*	2.81	
	2	kg	-	-	241*	241*	245*	245*	3.17	
Arm: 1 150mm	1	kg	373*	373*	276*	276*	240*	240*	3.52	
+ Dozer blade up	0	kg	548*	548*	297*	297*	228*	228*	3.48	
	-1	kg	452*	452*	232*	232*	222*	222*	3.05	
	2	kg	-	-	241*	241*	245*	245*	3.17	
Arm: 1 150mm	1	kg	373*	373*	276*	276*	240*	240*	3.52	
+ Dozer blade down	0	kg	548*	548*	297*	297*	228*	228*	3.48	
	-1	kg	452*	452*	232*	232*	222*	222*	3.05	
Arm: 1150mm	2	kg	-	-	241*	241*	245*	245*	3.17	
Arm: 1 150mm + Dozer blade down	1	kg	373*	373*	276*	276*	240*	240*	3.52	
+ Heavy counterweight	0	kg	548*	548*	297*	297*	228*	228*	3.48	
i neavy counterweight	-1	kg	452*	452*	232*	232*	222*	222*	3.05	







Descrip	tion	Unit	EC	18E				
۸rm		mm	950	1 150				
A	Maximum cutting height		mm	3 439	3 582			
В	Maximum dump height		mm	2 4 4 4	2 588			
B*	Maximum bucket clearance		mm	2 482	2 625			
С	Digging depth	mm	2 234	2 434				
C*	Maximum digging depth		mm	2 500	2 700			
D	Maximum vertical wall digging depth		mm	1898 2 091				
E	Maximum digging reach at ground level		mm	3 800	3 993			
G	Highest position dozer blade	Short blade	mm	22	25			
		Long blade	mm	20	67			
Н	Lowest position dozer blade	Short blade	mm	29	96			
		Long blade	mm	38	86			
J	Track length		mm	16	620			
К	Dozer blade, maximum reach at ground level	Short blade	mm	10)82			
		Long blade	mm	12	272			
L	Overall width with 230mm tracks	Min	mm	99	95			
		Max	mm	13	352			
M	Overall length		mm	3 550	3 431			
M*	Transport length (arm lowered)	Short blade	mm	3 810	3 824			
		Long blade	mm	4 000	4 014			
Р	Dozer blade height		mm	2	31			
Q	Shoe width (rubber)		mm		30			
Q(1)	Shoe width (steel)		mm		30			
R	Ground clearance to superstructure		mm		56			
S	Front slew radius		mm	1 455	1 476			
Т	Front slew radius with maximum offset		mm	1 181	1 184			
U	Overall height cab		mm		334			
U*	Overall height canopy		mm		298			
Х	Tail slew radius		mm		018			
X1	Rear overhang (across tracks)		mm		42			
β1	Maximum boom offset to the right		mm	419				
β2 (1) Optid	Maximum boom offset to the left		mm	52	25			

(1) Option

ATTACHMENTS SPECIFIC	ATION	s														
									Agg	ressive	Cut	Di	tching	buck	ets	Hydraulic breaker
	Unit]	Ger	ieral P	urpos	e buc	Kets		buckets Fixed Tiltable HB02		HB02 Low Noise					
Quick Coupler type	mm	200	250	300	400	450	500	600	350	550*	550	850	1 000	850	1 000	-
Volvo mechanical (pin-on)	I	14	19	23	32	36	41	51	-	-	-	59	76	59	-	Pin-on bracket
Lehnhoff [®] mechanical	1	-	-	23	32	-	41	-	-	-	-	59	76	59	-	Lehnhoff type bracket
Mechanical, symmetrical type	I	-	-	-	-	-	-	-	25	55	55	-	76	-	76	Symmetrical type bracket

*with teeth

For more details, see Attachments catalogue

Equipment STANDARD EQUIPMENT

STANDARD EQUIPMENT	STANDARD EQUIPMENT
Engine	Machine controls
Low emission, water-cooled, Volvo 3-cylinder diesel engine, meeting EPA Tier 4 and EU Stage V environmental regulations	Automatic locking device for pilot controls and travel levers when the left console is raised
Starter motor protected against ignition when engine is already running	Proportional and adjustable fingertip control for boom offset and auxiliary circuit
Automatic engine cut-off in case of overheating or low oil level	Large travel pedals
Engine starting safety device: the left console must be raised to operate the starter	Breaker (full flow) toggle switch on right joystick
Dry-type single element air filter	Pressure accumulator to lower the equipment on the ground
Water separator and translucent fuel filter	Instrumentation and monitoring
Plastic tank with drain plug	Permanent digital hour meter visible from outside cab
Drivetrain	Warning lights for hydraulic filter and air filter restriction
Automatic two-speed travel hydraulic motors with reduction gears	Engine temperature and fuel level gauges
Inner flange bottom rollers lubricated for life	Official approval
Grease tensioning wheel lubricated for life	Machine conforming to European directive 2006/42/EC
Electric / Electronic control system	Noise emissions in the environment conforming to directive 2000/14/E0
Maintenance-free battery	Hand Arm Vibrations - Whole Body Vibrations compliant with directive
IP67 protected electrical system and high quality connectors	2002/44/EC
Battery disconnect connector	Electromagnetic compatibility (EMC) conforming to European directive 2004/108/EC and its amendments
Two working lights on cab version	Object handling device conforming to EN 474-1 and EN 474-5 standard
Working light on the canopy frame	ROPS (Roll-Over Protective Structure) conforming to ISO 3471-1 and
12V power socket in cab with cellular phone storage	SAE J1040 standards
Swing system	TOPS (Tip-Over Protective Structure) conforming to ISO 12117 and EN
Radial piston hydraulic motor with integrated shockless valve	13531 standards
Automatic multi-disc spring applied hydraulic released slew brake	OPG 1 (Operator Protective Guard on top) conforming to ISO 10262
Centralized and remote lubrication of crown wheel and ball bearing	standard (when equipped)
Superstructure	
Stamped steel panels all-around, recessed 10 to 15mm	
4 integrated tie-down points on upper structure	
Undercarriage	
Box welded fabricated frame	
Sturdy removeable protecting covers for track motors and slew system	
Box section highly rigid dozer blade structure	
Hydraulic system	
High performance Volvo hydraulic system	
Flow-Sharing and Load Sensing main control valve	
Flow-Sharing and Load Sensing main control valve Boom cylinder cushioning at end stroke (up)	OPTIONAL EQUIPMENT
Flow-Sharing and Load Sensing main control valve Boom cylinder cushioning at end stroke (up) Patented filtering and filling element	Engine
Flow-Sharing and Load Sensing main control valve Boom cylinder cushioning at end stroke (up) Patented filtering and filling element Large side by side oil cooler and radiator	Engine Dual stage air filter
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resistant pins

50-hours intervals on all grease points

Severe-duty guards for cab (OPG2, front & top)

Front guard OPG1 for canopy

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Tool kit	Hydraulics
Machine exterior	Relief valve for auxiliaries
Left/Right rearview mirror	Breaker/Shear valve
One protected worklight on the boom	Hydraulic drain for accessories
One rear worklight	Second accessory circuit with proportional and adjustable controls
Rotating beacon	Kit 2 flat face hydraulic couplings
One protected worklight on the boom LED	Kit 4 flat face hydraulic quick couplings
One rear worklight LED	Double acting circuit for hydraulic quick couplers
LED worklights package	Boom and arm safety lifting valves
Warning beacon, flashing LED	Boom, arm and dozer blade safety lifting valves
Green beacon link to safety belt	Safety valve certification
Heavy counterweight	Mineral hydraulic oil VG32
Several level of customisation (RAL specifications) to match with your corporate identity	Mineral hydraulic oil VG46
Undercarriage	Mineral hydraulic oil VG68
230mm rubber tracks	Bio hydraulic oil VG32 (PANOLIN®)
	Bio hydraulic oil VG46 (PANOLIN®)
230mm steel tracks	Digging equipment
Short dozer blade	Short arm
Long dozer blade	Long arm
	Machine controls
	On/Off fingertip control for boom offset and auxiliary circuit
	Attachments
	Volvo mechanical quick coupler (pin-on)
	Lehnhoff [®] mechanical quick coupler
	Symmetrical type mechanical quick coupler (\$30)
	General Purpose buckets

Fixed Ditching buckets

Tiltable Ditching buckets

Hydraulic breaker HB02LN

SELECTION OF VOLVO OPTIONAL EQUIPMENT

LED lights and beacon



Short or long blade



Anti-theft, coded key



Steel tracks



Short or long arm



Auto-idle and auto engine shutdown



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