

**V O L V O**



Volvo Compact Excavators 1.79 - 2.06 t / 3,946 - 4,542 lb

# **EC18 ELECTRIC, ECR18 ELECTRIC**

Volvo Construction Equipment



# 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.

## Small machines, big results

With decades of experience in the design and manufacture of compact excavators and wheel loaders, our range of compact machinery is designed with customer success in mind. Built from the same DNA as large Volvo machinery, our compact range sets the standard for efficiency, performance and uptime – complemented by an extensive range of Volvo attachments for maximum versatility.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts – such as our award-winning electric compact machines – to ensure we offer our customers machines which deliver big results long into the future.



## Solutions for you

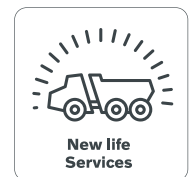
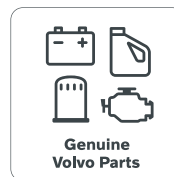
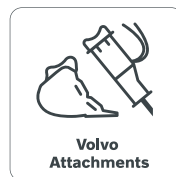
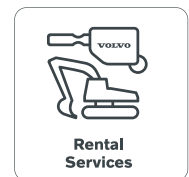
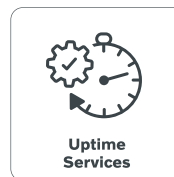
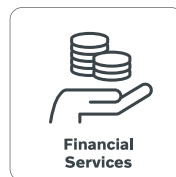
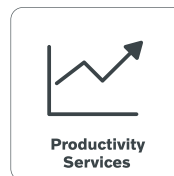
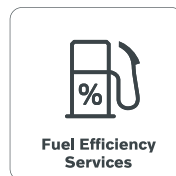
Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

### 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.



# BUILDING TOMORROW



ECR18

VOLVO



# TAKE YOUR BUSINESS TO NEW PLACES

Building on the success of the ECR25 Electric and expanding on the proven technology of their diesel counterparts, the introduction of the EC18 Electric and ECR18 Electric Compact Excavators opens up a new category within the Volvo electric machinery portfolio.

# Work anytime, anywhere

The EC18 Electric and ECR18 Electric boast both low noise and zero-tailpipe emissions, creating new opportunities for your business. Operate in noise sensitive areas and out of standard hours, as well as on low-carbon projects and indoors, without the need for costly fume extraction systems or being restricted by operator time limits.



## Create a better work environment

Operators will experience the world-class operator environment for which Volvo is renowned, including large entrance, superior visibility and comfort levels, further enhanced thanks to a dramatic reduction in noise, vibration and heat, and no exhaust fumes. This all contributes towards a quieter and cleaner jobsite, improving communication and working conditions for all personnel.

## Small but tough

With a variable undercarriage that retracts to less than 1m (3'3") and expands up to 1.35m (4'5"), combined with a reduced machine height to less than 2.35 (7'9"), 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' width, resulting in maximum visibility and a reduced risk of machine damage when working alongside obstacles.

### **Unrivalled operator experience**

The Volvo Electric Compact Excavators provide everything you would expect from their diesel counterparts, including heated cab (EC18 Electric only), ergonomic and intuitive controls, unrivalled combination of movements as well as best-in-class stability.

This is further enhanced by a number of features unique to the electric concept more responsive hydraulics due to the immediate torque, and a range of customizable settings to adapt machine behavior according to the type of work and operator preference. Auxiliary hydraulic flows and joystick responsiveness are easily adjusted from the user-friendly interface.









# MAKE THE MOST OF EVERY CHARGE

The EC18 Electric can deliver up to 6 hours of work per charge depending on the environment and task at hand. For example, 4 hours 30 minutes of non-stop work could be expected when grading with a ditching bucket, and 2 hours when trenching.

The ECR18 Electric can deliver up to 5 hours of work per charge depending on the environment, task at hand and work mode. For example, 3 hours 30 minutes of non-stop work could be expected when grading continuously.

To find out if an electric Volvo machine is the right fit for your activities, just talk to your dealer, who can help you calculate operating time and the optimum charging solution based on your operation.

# Uptime you can count on

Enter the brave new world of electric machinery with complete confidence thanks to a range of solutions and services from Volvo. Count on the best battery technology, reduced servicing, fast-charging solutions and impressive warranties to give you complete peace of mind that your EC18 Electric and ECR18 Electric will deliver all the performance and uptime which your operation demands.



## Flexible charging solutions

The Volvo EC18 Electric and ECR18 Electric come with an on-board charger which supplies a 3 kW power output to the batteries, allowing the machine to charge from 0% to 100% in as little as 7 hours for EC18 Electric and 6 hours for ECR18 Electric. They come with the necessary charging cable, plug and adapters to charge from a wall socket or wallbox.

When projects and applications demand faster charging, a range of optional fast off-board chargers are available for both indoor and outdoor use. These will charge the EC18 Electric and ECR18 Electric from 0 to 80% in up to 1 hour.

## The best battery technology

The best machines deserve the best power solutions, which is precisely what you can expect in the Volvo Electric Compact Excavators, equipped with a lithium-ion 48V battery. Simply put, this is the best technology for the job with a capacity of 20 kWh for the EC18 Electric, and 16 kWh for the ECR18 Electric.

What's more, the battery is designed to deliver up to 2,000 full charge cycles, accounting for the full life expectancy of the machine.

### Reduced maintenance

Give your uptime a boost and reduce maintenance requirements thanks to the fully electrified machine, powered by a maintenance-free motor. What's more, the electric motors stop when the machine is not working or moving, eliminating unnecessary wear.



### Electric Machines Management Application: your uptime partner

Stay ahead of charging requirements and ensure your Volvo electric machine is ready for action with our Electric Machines Management Application - a web application providing insight into your machine, including charging status, battery level and geographic location. Simply access the application on any internet-connected device to gain valuable information to help you manage the charging process more efficiently and maximize machine uptime.

### 6 years premium support

In addition to the first-class support provided by your Volvo dealer, Volvo CE electric machines come with a full warranty for either two years or 2,000 hours, whichever comes first. The powertrain – including battery and electronic components – is also covered for an extra four years or 3,000 hours, providing reassurance for a total of six years or 5,000 hours.



◀ Here is how the Electric Machines Management Application works

# EC18 Electric: A proven past, an electric future

## Zero emission electric power

- No emission locally
- Sound level down
- Low electricity cost
- No power consumption when machine not working

## Flexible charging solutions

- Safe and standard Electric Vehicles (EV) charging protocol
- 0 to 100% in 7 hours on 240V level 2 charging
- Standard DC fast charging
- 0 to 80% in 1 hour with DC fast charging
- Keep track of charging status, battery level and geographic location with the Electric Machines Management Application

## 48V lithium-ion battery

- 2 to 6 hours of run time depending on application
- Operating time calculator available (contact your dealer)
- Maintenance-free battery battery
- Designed to deliver up to 2,000 full charge cycles
- Battery warranty for 6 years (or 5,000 hours)

## Reduced maintenance

- Maintenance-free electric motor, featuring auto shutoff
- Easy access to components
- 50-hours greasing intervals

## Small but tough

- Overall minimum width of 995 mm (3'33") with expendable undercarriage
- Short radius
- Front right corner, swing post and cylinder within tracks' width
- High-profile cast-iron counterweight
- All-round steel panels recessed from counterweight
- Hoses routed inside the boom



## A new level of operator comfort

- Large entrance, spacious and uncluttered heated cab
- Superior visibility, low vibration
- 5" color display with jog wheel navigation
- Extensive information and customization abilities
- Simplified menu for better control
- Fingertip controls, with adjustable hydraulic flow
- Secondary accessory circuit
- Double acting circuit for hydraulic quick coupler



## Go where others can't

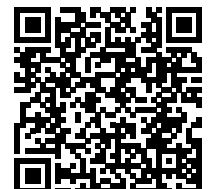
- Electric vehicles are a requirement of tenders in many cities
- Ability to work indoor
- Ability to work out of standard hours
- Get access to low-carbon projects
- No need for exhaust extraction systems and operator time limits

## Proven performance

- Same performance as its diesel equivalent
- Great stability for safety and comfort
- Outstanding lifting capacity
- Great combined movements performance
- Wide range of Volvo Attachments



Explore  
the machine  
in our walkaround  
video



# ECR18 Electric: Still as compact, far more discreet

## Zero emission electric power

- No emission locally
- Sound level down
- Low electricity cost
- No power consumption when machine not working

## Flexible charging solutions

- Safe and standard Electric Vehicles (EV) charging protocol
- 0 to 100% in 6 hours on 240V level 2 charging
- Standard DC fast charging
- 0 to 80% in less than 1 hour with DC fast charging
- Keep track of charging status, battery level and geographic location with the Electric Machines Management Application

## 48V lithium-ion battery

- 2 to 5 hours of run time depending on application
- Operating time calculator available (contact your dealer)
- Maintenance-free battery
- Designed to deliver up to 2,000 full charge cycles
- Battery warranty for 6 years (or 5,000 hours)

## Reduced maintenance

- Maintenance-free electric motor, featuring auto shutoff
- Easy access to components
- 50-hours greasing intervals

## Small but tough

- Overall minimum width of 995 mm (3'33") with expendable undercarriage
- Ultra-short tail radius
- Front right corner, swing post and cylinder within tracks' width
- High-profile cast-iron counterweight
- All-round steel panels recessed from counterweight
- Hoses routed inside the boom



## A new level of operator comfort

- Large entrance, spacious and uncluttered operator environment
- Superior visibility, Low vibration
- 5" color display with jog wheel navigation
- Extensive information and customization abilities
- Simplified menu for better control
- Fingertip controls, with adjustable hydraulic flow

## Go where others can't

- Electric vehicles are a requirement of tenders in many cities
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## Proven performance

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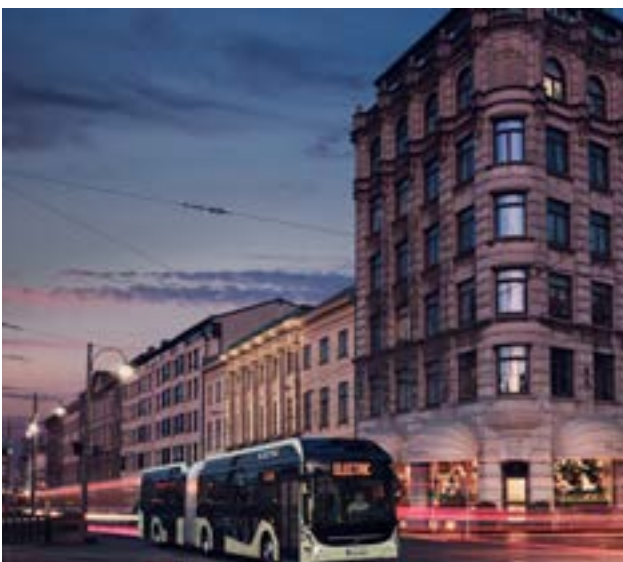




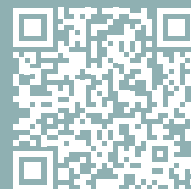


# A commitment to electric

At Volvo Construction Equipment we are committed to building the world we want to live in. A world where progress is made in a sustainable, efficient and peaceful way. The EC18 Electric and ECR18 Electric are just one part of this and join an ever-growing portfolio of Volvo electric machines, trucks and buses – helping to raise the bar for our industry when it comes to electric solutions.



**JOIN THE ELECTRIC  
REVOLUTION**



Reserve your Volvo electric construction machine online!

# Volvo EC18 Electric, ECR18 Electric in detail

	EC18 Electric	ECR18 Electric
<b>Electrical System</b>		
Battery Type	Lithium-ion	Lithium-ion
Battery Voltage	V 48	48
Battery capacity	kWh 20	16
	Ah 450	360
Auxiliary Battery Voltage	V 12	12
Indicative runtime (depending on application)	hours up to 6	up to 5
<b>Charging time</b>		
With 120V AC level 1	hours 14 hours	11 hours
With 240V AC level 2	hours 7 hours	6 hours
With DC fast charging	hours 1 hour	< 1 hour
<b>Electrical motor</b>		
Motor type	Permanent magnet	Permanent magnet
Motor power (peak)	kW 18	18
Motor power (continuous)	kW 12.5	12.5
Operating mode max. / Standard	r/min 2550	2550
Operating mode max. / Eco	r/min 2250	2250
Operating mode max. / Boost	r/min 3000	3000
<b>Swing System</b>		
Max, slew speed	r/min 9.5	9.5
Max, slew torque	daNm (ft lbf) 243 (1,792)	243 (1,792)
<b>Travel System</b>		
Max, drawbar pull	daN (lbf) 1,300 (2,923)	1,300 (2,923)
Max. travel speed low	km/h (mi/h) 1.8 (1.1)	1.8 (1.12)
Max. travel speed high	km/h (mi/h) 3.5 (2.2)	3.5 (2.17)
Gradeability	° 30	30
<b>Digging Performances</b>		
Standard bucket width (blade, W/O side cutter)	mm (in) 450 (17.7)	450 (17.7)
Standard bucket mass	kg (lb) 33 (72.8)	33 (72.8)
Standard bucket rated capacity	l (ft³) 36 (1.27)	36 (1.27)
Bucket rotation	° 196	196
Bucket breakout force (ISO)	daN (lbf) 1,290 (2,900)	1,290 (2,900)
Short arm tearout force (ISO)	daN (lbf) 795 (1,787)	795 (1,787)
Long arm tearout force (ISO)	daN (lbf) 695 (1,562)	695 (1,562)

	EC18 Electric	ECR18 Electric
<b>Hydraulic system</b>		
Maximum system flow	l/min (gal/min) 34 (8.98)	34 (8.98)
Maximum flow for accessories	l/min (gal/min) 30 (7.93)	30 (7.93)
Maximum flow for 2nd accessory circuit (option)	l/min (gal/min) 23 (6.08)	-
Maximum operating pressure	MPa (psi) 17 (2,466)	17 (2,466)
<b>Weight and Ground Pressure</b>		
Operating weight according to ISO 6016	kg (lb) 1,955 (4,310)	1,795 (3,957)
Ground pressure (cab)	kPa (psi) 28.9 (4.2)	-
Ground pressure (canopy)	kPa (psi) 27 (3.9)	27 (3.9)
Transport weight	kg (lb) 1,880 (4,145)	1,720 (3,792)
With rubber tracks	mm (in) 230 (9.06)	230 (9.06)
With short arm	mm (in) 950 (37.4)	950 (37.4)
With canopy	-kg (-lb) 84 (185)	-
With long arm	+kg (+lb) 4 (8.82)	4 (8.82)
With long arm and heavy counterweight	+kg (+lb) 42 (92.6)	42 (92.6)
With heavy counterweight	+kg (+lb) 38 (83.8)	38 (84)
With steel tracks	+kg (+lb) 32 (70.5)	32 (70.5)
<b>Service Refill</b>		
Hydraulic system, total	l (gal) 21 (5.55)	21 (5.55)
Hydraulic tank	l (gal) 15 (3.96)	15 (3.96)
<b>Undercarriage</b>		
Bottom/top rollers per side	3 / 0	3 / 0
Track tension	By grease piston	By grease piston
Blade (width x height)	mm (in) 1 340 x 230 (52.8 x 9.1)	1 340 x 230 (52.8 x 9.1)

## Attachments specifications

	Unit		General Purpose buckets															
	mm	in	200	7.87	250	9.84	300	11.8	400	15.8	450	17.7	500	19.7	600	23.6		
Quick Coupler type	mm	in	200	7.87	250	9.84	300	11.8	400	15.8	450	17.7	500	19.7	600	23.6		
Volvo mechanical (pin-on)	l	gal	14	3.70	19	5.02	23	6.08	32	8.45	36	9.51	41	10.8	51	13.5		

\*with teeth

For more details, see Attachments catalogue

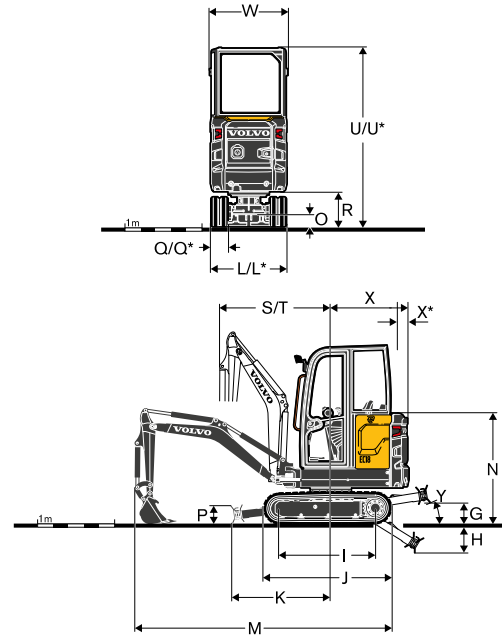
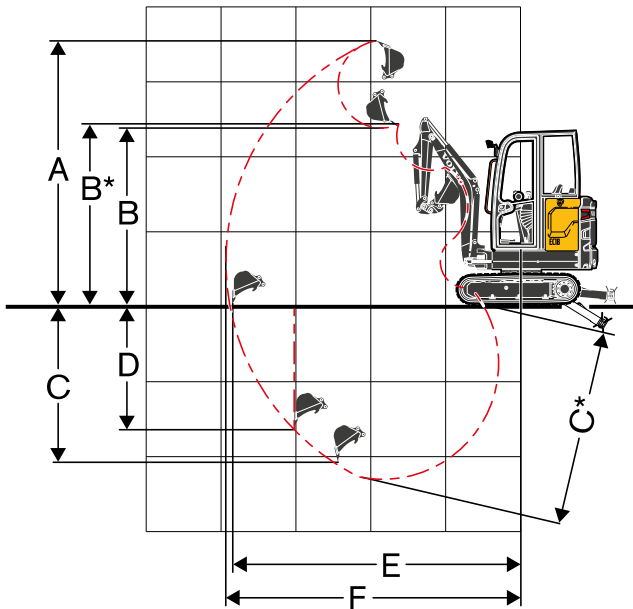
## Attachments specifications

	Unit		Aggressive Cut buckets						Ditching buckets							
	mm	in	350	13.8	550*	21.7*	550	21.7	Fixed				Tiltable			
Quick Coupler type	mm	in	350	13.8	550*	21.7*	550	21.7	850	33.5	1,000	39.4	850	33.5	1,000	39.4
Volvo mechanical (pin-on)	l	gal	-	-	-	-	-	-	59	15.6	76	20.1	59	15.6	-	-

\*with teeth

For more details, see Attachments catalogue

# Specifications EC18 Electric

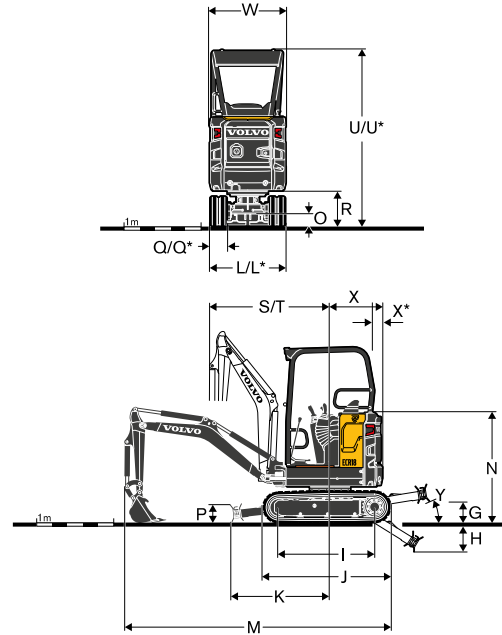
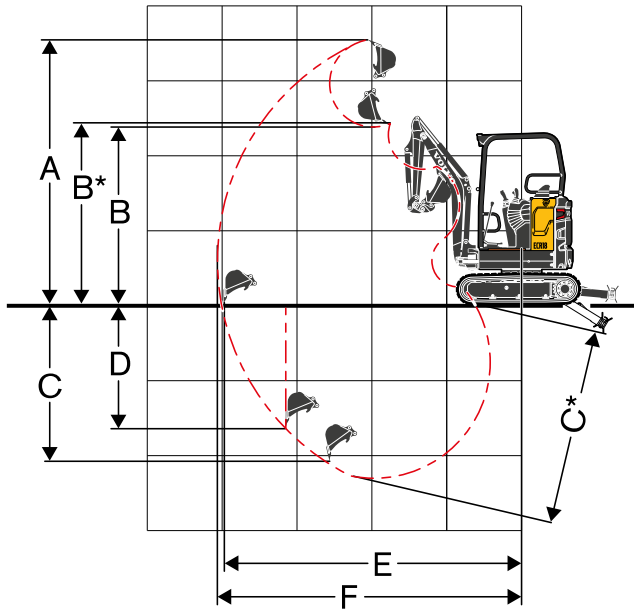


## DIMENSIONS

Description		Unit		EC18 Electric				
Arm		mm	ft in	950	3'1"	1,150	3'9"	
A	Maximum cutting height	mm	ft in	3,439	11'3"	3,582	11'9"	
B	Maximum dump height	mm	ft in	2,444	8'0"	2,588	8'6"	
B*	Maximum bucket clearance	mm	ft in	2,482	8'2"	2,625	8'7"	
C	Digging depth	mm	ft in	2,234	7'4"	2,434	8'0"	
C*	Maximum digging depth	mm	ft in	2,500	8'2"	2,700	8'10"	
D	Maximum vertical wall digging depth	mm	ft in	1,898	6'3"	2,091	6'10"	
E	Maximum digging reach at ground level	mm	ft in	3,800	12'6"	3,993	13'1"	
G	Highest position dozer blade	Short blade	mm	ft in	225	0'9"	225	0'9"
		Long blade	mm	ft in	267	0'11"	267	0'11"
H	Lowest position dozer blade	Short blade	mm	ft in	296	1'0"	296	1'0"
		Long blade	mm	ft in	386	1'3"	386	1'3"
J	Track length	mm	ft in	1,620	5'4"	1,620	5'4"	
K	Dozer blade, maximum reach at ground level	Short blade	mm	ft in	1,082	3'7"	1,082	3'7"
		Long blade	mm	ft in	1,272	4'2"	1,272	4'2"
L	Overall width with 230mm (0'9") tracks	Min	mm	ft in	995	3'3"	995	3'3"
		Max	mm	ft in	1,352	4'5"	1,352	4'5"
M	Overall length	mm	ft in	3,550	11'8"	3,431	11'3"	
M*	Transport length (arm lowered)	Short blade	mm	ft in	3,810	12'6"	3,824	12'7"
		Long blade	mm	ft in	4,000	13'1"	4,014	13'2"
P	Dozer blade height	mm	ft in	231	0'9"	231	0'9"	
Q	Shoe width (rubber)	mm	ft in	230	0'9"	230	0'9"	
Q(1)	Shoe width (steel)	mm	ft in	230	0'9"	230	0'9"	
R	Ground clearance to superstructure	mm	ft in	456	1'6"	456	1'6"	
S	Front slew radius	mm	ft in	1,455	4'9"	1,476	4'10"	
T	Front slew radius with maximum offset	mm	ft in	1,181	3'10"	1,184	3'11"	
U	Overall height cab	mm	ft in	2,334	7'8"	2,334	7'8"	
U*	Overall height canopy	mm	ft in	2,298	7'6"	2,298	7'6"	
X	Tail slew radius	mm	ft in	1,018	3'4"	1,018	3'4"	
X*	Rear overhang (across tracks)	mm	ft in	342	1'1"	342	1'1"	
$\beta_1$	Maximum boom offset to the right	mm	ft in	419	1'4"	419	1'4"	
$\beta_2$	Maximum boom offset to the left	mm	ft in	525	1'9"	525	1'9"	

(1) Option

# Specifications ECR18 Electric



## DIMENSIONS

Description		Unit		ECR18 Electric				
		mm	ft in	950	3'1"	1,150	3'9"	
<b>Arm</b>								
A	Maximum cutting height	mm	ft in	3,442	11'4"	3,582	11'9"	
B	Maximum dump height	mm	ft in	2,444	8'0"	2,588	8'6"	
B*	Maximum bucket clearance	mm	ft in	2,482	8'2"	2,625	8'7"	
C	Digging depth	mm	ft in	2,234	7'4"	2,434	8'0"	
C*	Maximum digging depth	mm	ft in	2,528	8'4"	2,727	8'11"	
D	Maximum vertical wall digging depth	mm	ft in	1,898	6'3"	2,091	6'10"	
E	Maximum digging reach at ground level	mm	ft in	3,921	12'10"	4,113	13'6"	
G	Highest position dozer blade	Short blade	mm	ft in	225	0'9"	225	0'9"
		Long blade	mm	ft in	267	0'11"	267	0'11"
H	Lowest position dozer blade	Short blade	mm	ft in	267	0'11"	267	0'11"
		Long blade	mm	ft in	386	1'3"	386	1'3"
J	Track length	mm	ft in	1,620	5'4"	1,620	5'4"	
K	Dozer blade, maximum reach at ground level	Short blade	mm	ft in	1,082	3'7"	1,082	3'7"
		Long blade	mm	ft in	1,272	4'2"	1,272	4'2"
L	Overall width with 230mm (0'9") tracks	Min	mm	ft in	995	3'3"	995	3'3"
		Max	mm	ft in	1,352	4'5"	1,352	4'5"
M	Overall length	mm	ft in	3,431	11'3"	3,309	10'10"	
M*	Transport length (arm lowered)	Short blade	mm	ft in	3,932	12'11"	3,944	12'11"
		Long blade	mm	ft in	4,122	13'6"	4,134	13'7"
P	Dozer blade height	mm	ft in	231	0'9"	231	0'9"	
Q	Shoe width (rubber)	mm	ft in	230	0'9"	230	0'9"	
Q(1)	Shoe width (steel)	mm	ft in	230	0'9"	230	0'9"	
R	Ground clearance to superstructure	mm	ft in	456	1'6"	456	1'6"	
S	Front slew radius	mm	ft in	1,575	5'2"	1,568	5'2"	
T	Front slew radius with maximum offset	mm	ft in	1,269	4'2"	1,287	4'3"	
U*	Overall height canopy	mm	ft in	2,298	7'6"	2,298	7'6"	
X	Tail slew radius	mm	ft in	688	2'3"	688	2'3"	
X*	Rear overhang (across tracks)	mm	in	12	0.47	12	0.47	
$\beta_1$	Maximum boom offset to the right	mm	ft in	516	1'8"	516	1'8"	
$\beta_2$	Maximum boom offset to the left	mm	ft in	640	2'1"	640	2'1"	

(1) Option

# Equipment

## STANDARD AND OPTIONAL EQUIPMENT

Standard Equipment : •  
Optional Equipment : o

	EC18 Electric	ECR18 Electric
<b>Drivetrain</b>		
Automatic two-speed travel hydraulic motors with reduction gears	•	•
Inner flange bottom rollers lubricated for life	•	•
Grease tensioning wheel lubricated for life	•	•
<b>Electric / Electronic control system</b>		
Maintenance free 48V battery - fixed for anti-theft protection	•	-
Maintenance free 48V battery (3-rack) - fixed for anti-theft protection	-	•
On-board charger with Type 2 socket	•	•
Standard charger cable with 3 plugs (domestic - white, CEE 16A 1 phase - blue, and CEE 32A 3 phase - Red)	•	•
Fast charger ready with weather protected socket	•	•
Maintenance free 12V auxiliary battery	•	•
High quality connectors	•	•
Protected battery cut-off switch	•	•
Auto-idling and auto-shutdown function on electric motor	•	•
<b>Swing System</b>		
Radial piston hydraulic motor with integrated shockless valve	•	•
Automatic multi-disc spring applied hydraulic released slew brake	•	•
Centralized and remote lubrication of crown wheel and ball bearing	•	•
<b>Superstructure</b>		
Stamped steel panels all-around, recessed 5 to 15mm	•	•
4 integrated tie-down points on upper structure	•	•
<b>Undercarriage</b>		
Box welded fabricated frame	•	•
Sturdy removable protecting covers for track motors and slew system	•	•
Box section highly rigid dozer blade structure	•	•
230mm (0'9") rubber tracks	o	o
230mm (0'9") steel tracks	o	o
Short dozer blade	o	o
Long dozer blade	o	o

## STANDARD AND OPTIONAL EQUIPMENT

Standard Equipment : •  
Optional Equipment : o

	EC18 Electric	ECR18 Electric
<b>Hydraulic system</b>		
High performance Volvo hydraulic system	•	•
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	•	•
Double-acting hydraulic circuit for accessories	•	•
Breaker/Shear valve	•	•
Hydraulic hoses routed inside the boom for increased protection	•	•
Plastic tank with drain plug	•	-
<b>Cab / Canopy</b>		
Cushioned operator station	•	•
Large entrance access	•	-
Large and roomy uncluttered floor	•	-
Highly visible orange footstep	•	•
Highly visible orange seatbelt with warning indicator	•	•
Warning beacon, flashing LED	•	•
Front cabin LED worklight	•	•
Right and left rear-view mirror	•	•
White noise travel alarm	•	•
Toolbox with integrated storage for operator's manual and lockable door	•	•
Robust 4-pillar structure canopy	-	•
<b>Cab</b>		
Highly visible orange handrail	•	-
Flat toughened glass all-around	•	-
Gas-strut assisted front window opening	•	-
Front windscreen wiper and washer nozzle	•	-
Right hand side sliding window	•	-
Heating systems with in-cab adjustment of temperature and air flow, and multiple air vents	•	-
Filtered air inlet	•	-
Radio preparation (antenna, wire harness)	•	-
Additional lockable storage box (behind the seat)	•	-



# Equipment

## STANDARD AND OPTIONAL EQUIPMENT

Standard Equipment : •  
Optional Equipment : o

	EC18 Electric	ECR18 Electric
<b>Digging equipment</b>		
Casted end and structural parts on arm, pivot, undercarriage and upper structure nose	•	•
Monoblock box welded fabricated boom and arm	•	•
Long-life steel bushings & hardened, pre-lubricated and corrosion resistant pins	•	•
50-hours intervals on all grease points	•	•
Short arm	o	o
Long arm	o	o
<b>Machine controls</b>		
Automatic locking device for pilot controls and travel levers when the left console is raised	•	•
Proportional and adjustable fingertip control for boom offset and auxiliary circuit	•	•
Large travel pedals	•	-
Breaker (full flow) toggle switch on right joystick	•	-
Pressure accumulator to lower the equipment on the ground	•	•
On/Off fingertip control for boom offset and auxiliary circuit	-	o
<b>Instrumentation and monitoring</b>		
High contrast colour 5" LCD display with day and night modes enabling good readability whatever lighting conditions	•	•
Jogwheel for easy navigation and electric motor speed adjustment	•	•
Simplified menus with master profile for full control and user profile with limited customization	•	•
3 working modes: Standard, ECO and Boost	•	•
Built-in anti-theft feature	•	•
Several warning messages, coupled to needed action, in the event of malfunction	•	•
Volvo Telematic System	•	•

## STANDARD AND OPTIONAL EQUIPMENT

Standard Equipment : •  
Optional Equipment : o

	EC18 Electric	ECR18 Electric
<b>Official approval</b>		
Machine conforming to European directive 2006/42/EC	•	•
Low voltage certified according to European directive 2014/35/EU	•	•
Noise emissions in the environment conforming to directive 2000/14/EC	•	•
Hand Arm Vibrations - Whole Body Vibrations compliant with directive 2002/44/EC	•	•
Electromagnetic compatibility (EMC) conforming to European directive 2014/30/EU	•	•
Object handling device conforming to EN 474-1 and EN 474-5 standards	•	•
ROPS (Roll-Over Protective Structure) conforming to ISO 3471	•	•
TOPS (Tip-Over Protective Structure) conforming to ISO 12117 and EN 13531 standards	•	•
OPG 1 (Operator Protective Guard on top) conforming to ISO 10262 standard (when equipped)	•	•
FOPS (Falling Object Protective Structure) conforming to EN ISO 3449	•	•
<b>Operator environment</b>		
Robust 4-pillar structure canopy	o	-
Heated cab	o	-
Vinyl seat with mechanical suspension, extended back with lumbar adjustment and 2" orange retractable seatbelt	o	o
Fabric seat with mechanical suspension, extended back with lumbar adjustment and 2" orange retractable seatbelt	o	-
Electrical switch for ISO/SAE control pattern change	o	o
Radio, AUX, USB, Bluetooth	o	-
Radio DAB, USB, Bluetooth, MP3	o	-
Controls lock, switch	o	o
Controls lock, seat operator presence and switch	o	o
Controls lock, seatbelt sensor	o	o
Front guard OPG1 for canopy	o	-
Tool kit	o	o
Additional lockable storage box (behind the seat)	-	o



## STANDARD AND OPTIONAL EQUIPMENT

Standard Equipment : •  
Optional Equipment : o

	EC18 Electric	ECR18 Electric
<b>Machine exterior</b>		
LED worklights package	o	o
Green beacon link to safety belt	o	o
Heavy counterweight	o	o
Several level of customisation (RAL specifications) to match with your corporate identity	o	o
<b>Hydraulics</b>		
Relief valve for auxiliaries	o	o
Hydraulic drain for accessories	o	-
Second accessory circuit with proportional and adjustable controls	o	-
Kit 2 flat face hydraulic couplings	o	o
Kit 4 flat face hydraulic quick couplings	o	-
Double acting circuit for hydraulic quick couplers	o	o
Boom and arm safety lifting valves	o	o
Boom, arm and dozer blade safety lifting valves	o	o
Safety valve certification	o	-
Mineral hydraulic oil VG32	o	-
Mineral hydraulic oil VG46	o	-
Mineral hydraulic oil VG68	o	-
Bio hydraulic oil VG32 (PANOLIN®)	o	-
Bio hydraulic oil VG46 (PANOLIN®)	o	-
Several grades of mineral and bio hydraulic oil	-	o
<b>Attachments</b>		
Volvo mechanical quick coupler (pin-on)	o	o
Lehnhoff® mechanical quick coupler	o	o
Symmetrical type mechanical quick coupler (S30)	o	o
General Purpose buckets	o	o
Fixed Ditching buckets	o	o
Tiltable Ditching buckets	o	o
<b>Charging solutions</b>		
Fast charger, 9.6 kW, indoor use	o	o
Fast charger, 17.3 kW, indoor use	o	o
Fast charger, 17.3 kW, outdoor use	o	o



**V O L V O**