

Volvo Compact Excavators 1.79-2.06 t

ECR18 ELECTRIC

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Low noise, zero emissions and an ergonomically designed cab make the ECR18 Electric quiet, clean and comfortable. A perfect fit for a modern work site.



Packed with power

The ECR18 Electric boasts low noise and zero-tailpipe emissions, creating new opportunities for your business. Now you can operate in noise sensitive areas, out of standard hours, on low-carbon projects or indoors, without the need for costly fume extraction systems. Enjoy an enhanced operator experience with ergonomic and intuitive controls, unrivalled performance in combined movements and best-in-class stability.



Flexible charging solutions

- Safe and standard Electric Vehicles (EV) charging protocol
- 10 to 100% in under 5 hours on 230V level 2 charging
- 10 to 80% in less than 45 minutes with standard DC fast charging
- Supported by Electric Machine Management Application



Premium battery

- 48V lithium-ion battery
- 2 to 5 hours of run time
- Maintenance-free battery
- Designed to deliver up to 2 000 full charge cycles



Operator comfort

- Spacious and uncluttered cab
- Superior visibility, low vibration
- 5" color display with jog wheel navigation
- Extensive information and customization abilities
- Simplified menu option for large fleet owners
- Fingertip controls, with adjustable hydraulic flow



Zero emission

- No emission locally
- Sound level down 80 dB external noise L_{WA}
- Low electricity cost
- No power consumption when machine not working

Volvo ECR18 Electric in detail

Electrical system		
Battery Type		Lithium-ion
Battery Voltage	V	48
Battery capacity	kWh	16
	Ah	360
Indicative runtime (depending on application)	hours	up to 5
Auxiliary Battery Voltage	V	12
Electrical Motor		
Motor type		Permanent magnet
Motor power (peak)	kW	18
Motor power (continuous)	kW	12.5
Operating mode max. / Standard	r/min	2 550
Operating mode max. / Eco	r/min	2 250
Operating mode max. / Boost	r/min	3 000
Swing System		
Max, slew speed	r/min	9.5
Max, slew torque	daNm	243
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	1290
Short arm tearout force (ISO)	daN	795
Long arm tearout force (ISO)	daN	695
Travel System		
Max, drawbar pull	daN	1300
Max. travel speed low	km/h	1.8
Max. travel speed high	km/h	3.5
Gradeability	0	30
,		

Hydraulic system		_
Maximum system flow	l/min	34
Maximum flow for accessories	l/min	30
Maximum flow for 2nd accessory circuit	l/min	
Maximum operating pressure	MPa	17
Weight and Ground Pressure		
Operating weight according to ISO 6016	1 795	
Ground pressure (cab)	kPa	
Ground pressure (canopy)	kPa	27
Transport weight	kg	1 720
With rubber tracks	mm	230
With short arm	mm	950
With canopy	-kg	
With long arm	+kg	4
With long arm and heavy counterweight	+kg	42
With heavy counterweight	+kg	38
With steel tracks	+kg	32
Service Refill		
Hydraulic system, total	1	21
Hydraulic tank	I	15
Undercarriage		
Bottom/top rollers per side		3/0
Track tension		By grease piston
Blade (width x height)	mm	1340 x 230

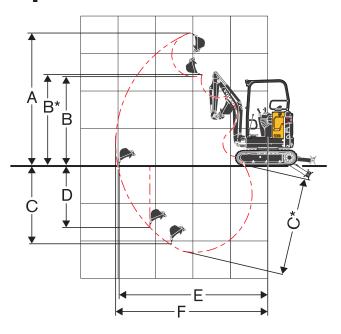
Attachments specification	s															
			Co	neral F		ا ما ما	oto		Agg	ressive	Cut	D	itching	bucke	ets	Hydraulic breaker
	Unit		Ge	nerai r	rurpos	e buck	eis		ı	bucket	5	Fix	ked	Tilt	able	HB02 Low Noise
Quick Coupler type	mm	200	250	300	400	450	500	600	350	550*	550	850	1000	850	1000	-
Volvo mechanical (pin-on)	I	14	19	23	32	36	41	51	-	-	-	59	76	59	-	Pin-on bracket
Lehnhoff® mechanical	I	-	-	23	32	-	41	-	-	-	-	59	76	59	-	Lehnhoff type bracket
Mechanical, symmetrical type	I	-	-	-	-	-	-	-	25	55	55	-	76	-	76	Symmetrical type bracket

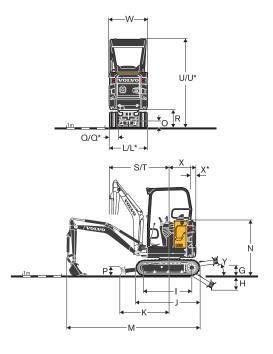
^{*}with teeth

For more details, see Attachments catalogue



Specifications





Description Arm		Unit	ECR18	Electric
		mm	950	1 150
A Maximum cutting height		mm	3 442	3 582
B Maximum dump height		mm	2 444	2 588
B* Maximum bucket clearance		mm	2 482	2 625
C Digging depth		mm	2 234	2 434
C* Maximum digging depth		mm	2 528	2 727
D Maximum vertical wall digging depth		mm	1898	2 091
E Maximum digging reach at ground level		mm	3 921	4 113
G Highest position dozer blade	Short blade	mm	2	25
	Long blade	mm	2	.67
H Lowest position dozer blade	Short blade	mm	2	167
	Long blade	mm	3	86
J Track length		mm	1 (620
C Dozer blade, maximum reach at ground level	Short blade	mm	10	082
	Long blade	mm	1:	272
L Overall width with 230mm tracks	Min	mm	9	95
	Max	mm	1;	352
M Overall length		mm	3 431	3 309
M* Transport length (arm lowered)	Short blade	mm	3 932	3 944
	Long blade	mm	4 122	4 134
P Dozer blade height		mm	2	231
Q Shoe width (rubber)		mm	2	30
Q ⁽¹⁾ Shoe width (steel)		mm	2	30
R Ground clearance to superstructure		mm	4	-56
S Front slew radius		mm	1 575	1 568
T Front slew radius with maximum offset		mm	1 269	1 287
U* Overall height canopy		mm	2 :	298
X Tail slew radius		mm	6	88
X* Rear overhang (across tracks)		mm		12
β ₁ Maximum boom offset to the right		mm	5	516
β ₂ Maximum boom offset to the left		mm	6	40

Equipment

STANDARD EQUIPMENT

Drivetrain

Automatic two-speed travel hydraulic motors with reduction gears

Inner flange bottom rollers lubricated for life

Grease tensioning wheel lubricated for life

Electric / Electronic control system

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, CEE 16A 1 phase, and CEE 32A 3 phase)

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

Swing System

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

Superstructure

Stamped steel panels all-around, recessed 5 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

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

Canopy

Robust 4-pillar structure canopy

Cushionned operator station

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

Digging equipment

Casted end and structural parts on arm, pivot, undercarriage and upper structure noze

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

Machine controls

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 Pressure accumulator to lower the equipment on the ground

Instrumentation and monitoring

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 EQUIPMENT

Official approval

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/FU

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

OPTIONAL EQUIPMENT

Operator environment

Vinyl seat with mechanical suspension, extended back with lumbar adjustment and 2" orange retractable seatbelt

Additional lockable storage box (behind the seat)

Electrical switch for ISO/SAE control pattern change

Controls lock, switch

Controls lock, seat operator presence and switch

Controls lock, seatbelt sensor

Tool kit

Machine exterior

LED worklights package

Green beacon link to safety belt

Heavy counterweight

Several level of customisation (RAL specifications) to match with your corporate identity

Undercarriage

230mm (0'9") rubber tracks

230mm (0'9") steel tracks

Short dozer blade

Long dozer blade

Hydraulics

Relief valve for auxiliaries

Kit 2 flat face hydraulic couplings

Double acting circuit for hydraulic quick couplers

Boom and arm safety lifting valves

Boom, arm and dozer blade safety lifting valves

Several grades of mineral and bio hydraulic oil

Digging equipment

Short arm

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 (S30)

General Purpose buckets

Fixed Ditching buckets

Tiltable Ditching buckets

Hydraulic breaker HB02LN

Charging solutions

Fast charger, 9.6 kW, indoor use

Fast charger, 17.3 kW, indoor use

Fast charger, 17.3 kW, outdoor use





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Founded in 1974...

CJD Equipment are in the industry for the long term and have the skills and knowledge to support you and your equipment. CJD Equipment takes great pride in being Volvo CE's first and only authorised partner in Australia for three decades. Together, we provide a full range of machinery ideally suited to Australia's unique landscapes and industry requirements. These products are fully supported through a nationwide network of branches, and carefully selected dealers and service agents, strategically positioned to ensure total support.

With fully equipped parts warehouses in every capital city, and dealers throughout major regional towns, we have the support network in place to ensure you're well supported, no matter where you or your machines are. Ongoing in-house training programs ensures our technicians' skills keep pace with the latest technology and product advances.

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