Volvo Construction Equipment Building Tomorrow



ECR25 ELECTRIC

Volvo Electric Compact Excavators 2.7 t / 5,952 lb



Adding business by adding Silence

The Volvo ECR25 Electric excavator is a true game changer. The first in a new range of electric compact excavators, it takes a proven concept – and then adds battery electric power, so you'll have all the performance you need, in the compact package you demand. Because we know that being sustainable equals being successful – what's good for people, society and the world is ultimately good for your business.

At home in the city

The lower noise levels that the ECR25 Electric offers enable you to work anytime, anywhere – even at night in populated areas. This can lessen the disturbance inner city work can cause and reduce congestion at peak times, all the while increasing your efficiency. It also creates a more pleasant working environment for you and your colleagues with whom you can clearly communicate whilst operating.



At the heart of operations

The ECR25 Electric takes the proven credentials of the industry's foremost cab – accessibility, visibility and class leading ergonomics – and then adds a substantial reduction in noise, vibration and heat, ensuring long lasting comfort and productivity. The lack of an exhaust is also noticeable, removing the associated fumes and minimizing the dust that they can generate.



Go where others can't

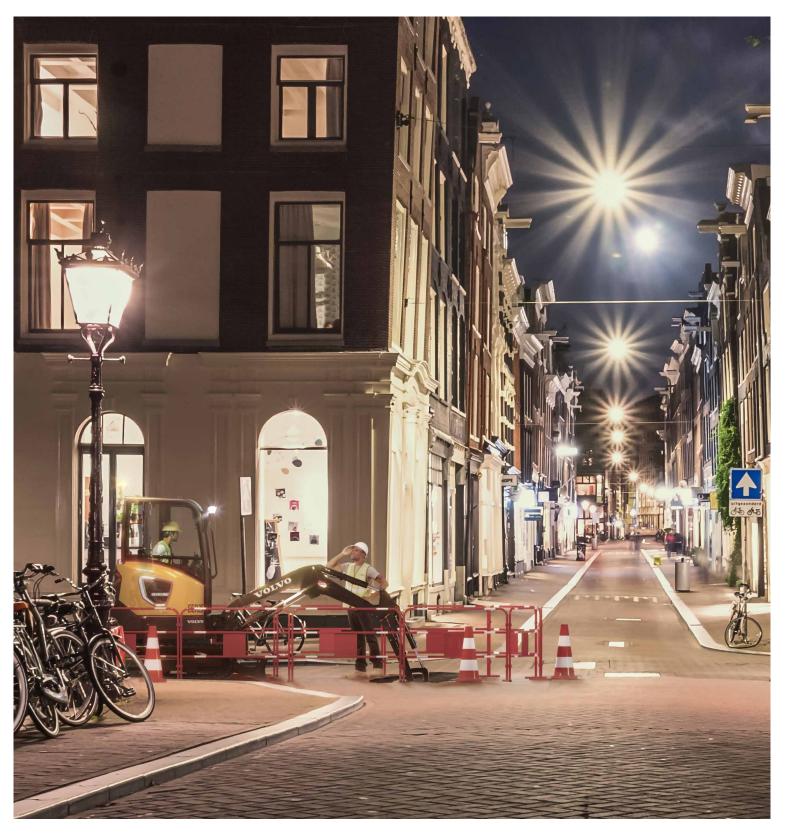
The ECR25 Electric features a zero-tail swing radius design making it perfect to confidently work in confined spaces. And thanks to zero emissions, the need for costly fumes extraction systems is eliminated in indoor jobs, such as basement groundworks and building demolition. This opens up new business opportunities which in turn helps optimize utilization.



Keep your Volvo a Volvo!

Only with Volvo attachments do you get what you wanted when you bought a Volvo in the first place – maximum productivity and uptime. Volvo develops and offers a wide range of attachments , fully compatible with our electric machines, which brings you unmatched flexibility and versatility, making it easy for you to develop job opportunities and to get the job done with increased productivity.







Noise pollution is often accepted as part of daily life. At your desk, put on your noise cancelling headphones and just keep going. But that's not a solution for the office worker taking their lunch break in the park. If it's a Volvo ECR25 Electric working close by, it will add some silence back, helping everyone to focus on what's important to them.

The innovative new ECR25 ELECTRIC

ELECTRIC

ECR25

VOLVO

7EDA	EMICCIUM	ELECTRIC POWE	
	EMINALUK	ELELIKIL PUWE	

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



- Low vibration
- Color display with jogwheel nagivation
- Intuitive and easier to operate
- Full LED lighting
- Blows less dust

GET ACCESS TO NEW MARKETS

- Ability to work indoor
- Ability to work out of standard hours
- Fast charging option

EVERYTHING YOU'D EXPECT FROM VOLVO

- Monthly greasing only
- Patented hydraulic filter
- Hoses protected inside boom and arm
- Automatic travel speed

WORK ANYTHING, ANYWHERE

- Same performance as its diesel equivalent
- Ultimate lifting capacity
- Zero-tail swing radius
- Front corner stays within tracks width
- Wide range of Volvo attachments

Volvo ECR25 Electric in detail

Electrical system			
Battery Type			Lithium-ion
Battery Voltage	,	V	48
Battery capacity (full package)	kW	h	20
	А	h	450
Indicative runtime (depending on application)	hour	s	4-6
Auxiliary Battery Voltage	,	V	12
Auxiliary Battery capacity	А	h	70
Alternator	V/A	h	12/40
Electrical motor			
Motor type		Permanent magnet	
Motor power (peak)	kW/h	p 18	24.1
Motor power (continuous)	kW / h	р 14.7	19.7
Operating mode max. / Standard	r/mi	n 20	50
Operating mode max. / Eco	r/mi	n 18	00
Operating mode max. / Boost	r/mi	n 24	00
Digging Performances			
Standard bucket width (blade, W/O side cutter)	mm / ft i	n 500	1' 8"
Standard bucket mass	kg / I	b 59	130
Standard bucket rated capacity	l/ga	al 74	0.01
Bucket rotation		° 20	05
Bucket breakout force (ISO)	daN / Ik	of 2 2 3 3	5,020
Short arm tearout force (ISO)	daN (Ib [.]	f) 1776	3 993
With short arm	mm/ ft i	n 1050	3' 5"
Long arm tearout force (ISO)	daN / Ik	of 1497	3,365
With long arm	mm / ft i	n 1350	4' 5"
Undercarriage			
Rubber track width	mm / ft in	300	12"
Bottom/top rollers per side		3/1	
Track tension		by g	rease piston
Blade (width x height)	mm / ft in f	l 550 x 312	5' 1" x 1"
Service Refill			
Hydraulic system, total	l/gal	33	8.72
II do Roted	1.7.1	0.0	0.00

Max, slew speed	r/mi	า	9.4
Max, slew torque	daNm / lbf 1	t 48	5 1,090
Hydraulic system			
Pump type		Variable o	displacement, load sensing
Maximum system flow	l/min / gal mi		8 15.3
Maximum flow for accessories	l/min / gal mi		0 13.2
Maximum pressure for accessories	s Mpa/ps	i 2	5 3,626
Maximum flow for 2nd accessory circuit	l/min / gal mi	· · · · · · · · · · · · · · · · · · ·	3 6
Maximum operating pressure	Mpa / ps	i 2	.5 3,626
Sound Level			
Interior sound level according to IS	SO 6396		
L _{pA}	dB	74	4
External sound level according to Directive (2000/14/EC) and 474-			
L _{WA}	dB	8	4
Weight and Ground Pressure			
Operating weight according to ISO 6016	kg / lb	2 730	6,018
Ground pressure (cab)	kPa / psi	28.4	41.2
Transport weight	kg / lb	2 655	5,853
With heated cab			
With direct-fit bucket			
With rubber tracks	mm / ft in	300	12"
With long arm	mm / ft in	1 350	4' 5"
Travel System			
Max, drawbar pull	daN / lbf	1984	4,460
Max. travel speed low	km/h / mph	2.4	1.5
Max. travel speed high	km/h / mph	4.5	2.8

LIFTING CAPACITY ECR25 ELECTRIC

Hydraulic tank

Travel reduction unit

These capacities are given for a machine equipped with a cabin, 300 mm/12" rubber tracks

l/gal

l/gal

23

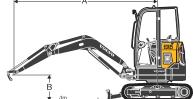
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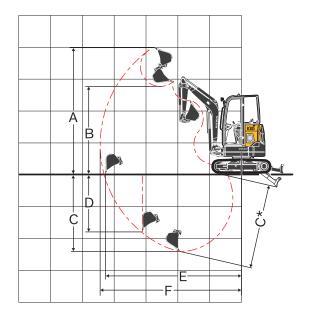
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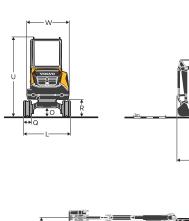
These capacities are given for a machine equipped with a cabin, 300 mm/ and without a bucket or quick-coupler. The below values are in compliance with ISO standard 10567. They do not exceed 75% of the tipping load or 87% of the hydraulic limit with the machine on firm level ground. Loads market with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load. Caution: In accordance with standard 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.

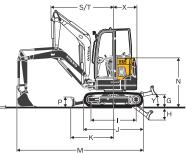
national and local safety re	gulations							1m		<u>den 6 8 8 8</u>		
							Lifting point ra	idius (A)				
Along undercarriage 🕺	Lifting			2.0 m/6' 7"			3.0 m/ 9' 10"			Max. reach		Max.
6	point height		Ŀ		ϥ	ŀ		Ċ ₽ ⊷	Ŀ	ŀ	Ĵ ₽	~~ /ft
Across undercarriage	m/ ft in			+ P		• <u>P</u>	+PC			+PC	<u>_</u>	m/ft
	3/9'10"	kg / lb	-	-	-	474/1,044	566*/1,247*	452/996	461/1,016	577*/1,272*	439/967	3.05/10'0"
	2/6'7"	kg / lb	-	-	-	467/1,029	599*/1,320*	445/981	339/747	601*/1,324*	324/714	3.67/12'0"
Arm: 1 050 mm (3' 5")	1/3'3"	kg / lb	-	-	-	443/976	795*/1,752*	422/930	307/676	642*/1,415*	293/645	3.86/12'8"
	0	kg / lb	778 /1,715	1602*/3,531*		427/941	933*/2,056*	406/895	320/705	699*/1,541*	305/672	3.71/12'2"
	-1/-3'-3"	kg / lb	789/1,739	1 543*/3,401*		430/947	849*/1,871*	409/901	404/890	771*/1,699*	385/848	3.15/10'4"
	2/6'7"	kg / lb	-	-	-	465/1,025	500*/1,102*	445/981	294/648	532*/1,173*	282/622	3.971/13'
Arm: 1 350 mm/ 4' 5"	1/3'3"	kg / lb	808/1,781	1334*/2,941*	760/1,676	439/968	715*/1,576*	418/922	269/593	571*/1,259*	258/569	4.142/13' 7"
	0	kg / lb	760/1,676	1608*/3,545*	713/1,572	417/919	897*/1,978*	397/875	278/613	623*/1,373*	266/586	4.002/13' 2"
	-1/-3'-3"	kg / lb	763/1,682	1659*/3,657*	716/1,579	413/911	902*/1,989*	393/866	335/739	692*/1,526*	320/705	3.502/11' 6"

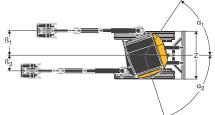


Specifications









DescriptionUnitECR23Immatting heightmm(tin)1.050 (3's)1.813 (13'g)Immatting heightmm(tin)2.784 (92'n)2.957 (3's)'Immatting heightmm(tin)2.784 (92'n)2.957 (3's)'Immatting heightmm(tin)2.837 (9's)'2.957 (9's)'Immatting heightmm(tin)2.837 (9's)'2.955 (9's)'Immatting heightmm(tin)2.837 (9's)'2.955 (9's)'Immatting heightmm(tin)1.832 (12'n)2.955 (9's)'Immatting heightmm(tin)1.832 (12'n)2.955 (9's)'Immatting height expondencemm(tin)4.438 (14's)'2.915 (9's)'Immatting height expondencemm(tin)4.438 (14's)'4.768 (15's)'Immatting height expondencemm(tin)4.448 (14's)'4.768 (15's)'Immatting height exposition dozer blademm(tin)1.916 (13's)'4.768 (15's)'Immatting height exposition dozer blademm(tin)1.916 (13's)'1.916 (13's)'Impace heightmm(tin)1.916 (13's)'3.876 (12's)'Impace heightmm(tin)4.920 (11's)'4.926 (14's)'Impace height exposition dozer blademm(tin)4.920 (11's)'Impace height exposition dozer heightmm(tin)4.920 (11's)'Impace height exposition dozer height <td< th=""><th>DIM</th><th colspan="5">DIMENSIONS</th></td<>	DIM	DIMENSIONS				
A Maximum cutting height mm (ft in) 4 010 (13'2') 4 183 (13'9') B Maximum dump height mm (ft in) 2 784 (92'') 2 957 (9'8') B* Maximum bucket clearance mm (ft in) 2 897 (9'8'') 3 070 (10'1') C Digging depth mm (ft in) 2 461 (8'1') 2 761 (9'1') C* Maximum digging depth mm (ft in) 1 823 (6'0') 2 198 (5'1') D Maximum vertical wall digging depth mm (ft in) 1 832 (6'0') 2 198 (5'1') D Maximum digging reach at ground level mm (ft in) 4 484 (14'9'') 4 602 (15'1') F Maximum digging reach at ground level mm (ft in) 4 482 (14'a'') 4 602 (15'1') I Lowest position dozer blade mm (ft in) 4 400 (1'8.6'') 1 (1'3.7'') I Lowest position dozer blade mm (ft in) 1 906 (6'3'') 1 1 1 1 090 (6'13'') J Track length mm (ft in) 1 906 (6'3'') 1 550 (5'1'') M Doverall height of angine hoad mm (ft in) 1 550 (5'1'')	Description		Unit	ECR25	Electric	
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I Tumbler length mm (ft in) 1 440 (4'8.6") J Track length mm (ft in) 1 906 (6'3") K Dozer blade, maximum reach at ground level mm (ft in) 1 365 (4'5.7") L1 Overall width with 300mm (11.8") rubber tracks mm (ft in) 1 350 (5'1") M Overall length mm (ft in) 4 008 (13'2") 3 876 (12'9") M Overall height of engine hood mm (ft in) 4 525 (14'10") N Overall height of engine hood mm (ft in) 1570 (5'1.8") O Minimum ground clearance mm (ft in) 290 (0'11.4") P Dozer blade height mm (ft in) 300 (1') R Ground clearance to superstructure mm (ft in) 300 (1') R Ground clearance to superstructure mm (ft in) 202 (6'7") T Front slew radius with maximum offset mm (ft in) 1555 (5'1") U Overall height cab mm (ft in) 1555 (5'1") U* Overall height canopy mm (ft in) 2505 (8'3") V Overall height canopy mm (ft in) 340 (4'5") X	G	Highest position dozer blade	mm (ft in)	401 (1	'3.7")	
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KDozer blade, maximum reach at ground levelmm (ft in) $1.365 (4^25.7")$ L1Overall width with 300mm (11.8") rubber tracksmm (ft in) $1.550 (5^{1+1})$ MOverall lengthmm (ft in) $4.008 (13^{1}2")$ $3.876 (12^{1}9")$ M*Transport lengthmm (ft in) $4.595 (15^{1+1})$ $4.525 (14^{1}10")$ NOverall height of engine hoodmm (ft in) $1.570 (5^{1}1.8")$ OMinimum ground clearancemm (ft in) $2.90 (0^{1}11.4")$ PDozer blade heightmm (ft in) $3.00 (1^{1})$ RGround clearance to superstructuremm (ft in) $3.00 (1^{1})$ RGround clearance to superstructuremm (ft in) $2.002 (6^{1}7")$ TFront slew radiusmm (ft in) $2.002 (6^{1}7")$ TFront slew radius with maximum offsetmm (ft in) $1.555 (5^{1}3^{1})$ UOverall height cabmm (ft in) $2.535 (8^{1}4")$ U*Overall height cappymm (ft in) $1.340 (4^{1}5")$ XTail slew radiusmm (ft in) $1.340 (4^{1}5")$ XTail slew radiusmm (ft in) $1.550 (5^{1}")$ MOverall height of superstructuremm (ft in) $1.550 (5^{1}")$ XTail slew radiusmm (ft in) $1.550 (5^{1}")$ aMaximum boom swing angle to	1	Tumbler length	mm (ft in)	1 440 (4'8.6")	
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M*Transport lengthmm (ft in)4 595 (15'1")4 525 (14'10")NOverall height of engine hoodmm (ft in)1 570 (5'1.8")OMinimum ground clearancemm (ft in)290 (0'11.4")PDozer blade heightmm (ft in)312 (1'0.2")QShoe width (rubber)mm (ft in)300 (1')RGround clearance to superstructuremm (ft in)554 (1'10")SFront slew radiusmm (ft in)2 002 (6'7")TFront slew radius with maximum offsetmm (ft in)1 555 (5'1")UOverall height cabmm (ft in)2 535 (8'4")U*Overall height canopymm (ft in)2 505 (8'3")WOverall width of superstructuremm (ft in)1 340 (4'5")XTail slew radiusmm (ft in)750 (2'6")YAngle of approach°34zDozer blade widthmm (ft in)1 550 (5'1")qMaximum boom swing angle to the left°72Maximum boom swing angle to the left°56Maximum boom swing angle to the right°56Maximum boom swing angle to he left°66Maximum boom swing angle to he left°66	L1	Overall width with 300mm (11.8") rubber tracks	mm (ft in)	1 550	(5'1")	
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YAngle of approach°34zDozer blade widthmm (ft in)1550 (5'1")a1Maximum boom swing angle to the left°72p1Maximum boom offset to the rightmm (ft in)784 (2'7")a2Maximum boom swing angle to the right°56Maximum boom offset to the left°106 (4'8")	W	Overall width of superstructure	mm (ft in)	1 340	(4'5")	
Arige of approach S4 z Dozer blade width mm (ft in) 1 550 (5'1") a1 Maximum boom swing angle to the left ° 72 p1 Maximum boom offset to the right mm (ft in) 784 (2'7") a2 Maximum boom swing angle to the right ° 56 Maximum boom offset to the left ° 56	Х	Tail slew radius		750 (2'6")	
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ort Maximum boom swing angle to the left 1/2 B1 Maximum boom offset to the right mm (ft in) 02 Maximum boom swing angle to the right ° 56 Maximum boom offset to the left	z	Dozer blade width	mm (ft in)	1 550	(5'1")	
Maximum boom swing angle to the right ° 56	α1	Maximum boom swing angle to the left	o	7.	2	
a2 Waximum beem effect to the right 56	β1	Maximum boom offset to the right		784 (2'7")	
_{β2} Maximum boom offset to the left mm (ft in) 496 (1'8")	α2	Maximum boom swing angle to the right	0	5	6	
	β2	Maximum boom offset to the left	mm (ft in)	496 ((1'8")	

Equipment

STANDARD EQUIPMENT	STANDARD EQUIPMENT
Drivetrain	Hydraulic system
Axial piston hydraulic motors equipped with an epicyclic reduction gears.	Plastic tank with drain plug
Automatic two speed travel	Variable displacement, load-sensing piston pump
Bottom flanged rollers lubricated for life	Closed centre flow-sharing main control valve
Grease tensioning wheel lubricated for life	Cushoning on cylinders:
Electric / Electronic control system	Boom up
Maintenance free 48V battery (3-rack) - fixed for anti-theft protection	Accessory flow adjustment
On-board charger	Secondary relief valves for auxiliaries
Standard charger cable	Hammer / shear valve
Fast charger ready with weather protected socket	Second accessory circuit
Maintenance free 12V auxiliary battery	Flat face hydaulic quick couplings
High quality connectors	Double acting circuit for hydraulic quick couplers
Protected battery cut-off switch	Mineral hydraulic oil VG46
Machine exterior	Large tiltable oil cooler
Warning beacon, flashing LED	Patented filtering and filling element
Protected LED worklight on the boom	Double-acting hydraulic circuit for accessories
Rear LED worklight	Cab
Two LED working lights on top front	Certified FOPS level 1 on top (Falling Object Protective Structure)
Right and left rear-view mirror	Certified TOPS (Tip-Over Protective Structure)
High visibility orange entrance foot step and handle	Certified ROPS (Roll-Over Protective Structure)
Swing system	Fabric seat, lumbar adjustment, high backrest and retractable seat belt
Radial piston hydraulic motor with direct engagement on the ball internal	High visibility 2" orange seatbelt
crown wheel (no reduction gears)	Seat-belt with warning indicator
Integrated shockless valve	Large door access
Automatic multi-disc spring applied hydraulic released slew brake	Large and roomy uncluttered floor
Centralized and remote lubrication of crown wheel & ball bearing	Gas-strutt assisted front window opening
Undercarriage	Full opening front bay with in-cab storage for the front lower window.
"X" shape, box welded fabricated frame with sloping side members	Front windscreen wiper and washer nozzle
2 Tie-down points on the dozer blade	Right hand side sliding window
2 Tie-down points on the frame	Flat toughened glass
2 lifting points on the frame	Heating systems with in-cab adjustment of temperature and air flow level
300 mm /12" rubber tracks	Multiple adjustable air vents
Sturdy removeable protecting covers for track motors and slew system.	Filtered air inlet
400HB weld-on edge on dozer blade	Toolbox with integrated storage for operator's manual and lockeable door
	Cab inside light
	Cup holder

Phone holder

Provision for a radio (antena and electric wiring already fitted)

In-cab 12V power socket

Digging equ	ipment
Monobloc b	ox weldded fabricated boom
Boom cylind	der rod protection
Integrated li	fting point on the boom
Monobloc b	ox weldded arms with casted ends
Long-life ste	eel bushings
Hardened, p	pre-lubricated and corrosion resistant pins
50 hours gr	easing intervals
Standard ar	m 1 050 mm / 3'5"
Long arm 1	350 mm / 4' 5"
Instrumenta	tion and monitoring
-	st colour 5" LCD display with day and night modes enabling pility whatever lighting conditions
Jogwheel fo	or easy navigation and electric motor speed adjustment
3 working n	nodes: Standard, ECO and Boost
Several war malfunction	ning messages, coupled to needed action, in the event of
Volvo Telem	atic System
Machine cor	ntrol system
Finger tip co	ontrol for boom offset
Finger tip co	ontrol for auxiliary circuit
Breaker tog	gle switch on right joystick
Automatic le console is ra	ocking device for pilot controls and travel levers when the left aised
Electric mot operate the	or starting safety device: the left console must be raised to starter
Pressure ac engine is sv	cumulator to lower the equipment on the ground when the vitched off
High torque	/ automatic two speed change over switch on the dashboard
High speed	toggle switch on the dozer blade lever
Large travel	pedals
Official appr	oval
Machine co	nforming to European directive 2006/42/EC
Noise emiss	ions in the environment conforming to directive 2000/14/EC
Hand Arm V 2002/44/E	'ibrations - Whole Body Vibrations compliant with directive C
	netic compatibility (EMC) conforming to European directive EC and its amendments
Object hand	lling device conforming to EN 474-1 and EN 474-5 standards
FOPS on to	p level 1 conforming to ISO 10262 standard
TOPS confo	rming to ISO 12117 and EN 13531 standards
ROPS confo	orming to ISO 3471-1 and / SAE J1040 standards
OPG 1 confe	orming to ISO 10262 standard
0000	arming to ICO 100C0 standard (when againped)

OPG 2 conforming to ISO 10262 standard (when equipped)

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.





Keep it in the family

In addition to compact excavator, the Volvo L25 Electric is the latest evolution from the company that has been at the forefront of wheel loader innovation for over 65 years. It delivers the performance you expect, but with the zero emission electric power you only ever dreamed of. No matter what your application, this electric compact wheel loader will deliver – but in a quieter, cleaner and more comfortable way.



Volvo Construction Equipment