

Volvo Construction Equipment  
Building Tomorrow



# L25 ELECTRIC

Volvo Electric Compact Wheel Loaders 5.0 t / 11,023 lb



# Adding business by Adding Silence

It's time to change the way things are done. We are committed to build the world we want to live in. A world where progress is made in a sustainable, efficient and peaceful way. Because we know that being sustainable equals being successful – what's good for people, society and the world is ultimately good for your business. So now we are launching a range of electric construction machines. Outstanding performance delivered with fewer vibrations, no exhaust fumes and less noise. The time has come to Add Silence.

## The power you expect – The noise others want

This loader is ready for any job. Add to this the low noise levels that the L25 Electric offers and you open up a myriad of new opportunities to grow your business, be it working at night in urban areas or during the day close to noise sensitive locations like hospitals and parks. And just because it's battery powered, doesn't mean the result is any different. You get all the power you need to complete the job, only with minimum noise.



## All round comfort

Putting the operator first is nothing new for Volvo. Already among the most spacious in the industry, the ergonomically designed Volvo Care Cab has always been a pleasant place to be. With less vibration and lower noise – the L25 Electric takes it a step further. But comfort shouldn't stop with the operator – without an engine and ancillary parts, less maintenance time is required. Not only saving you money, but also a relief for those tasked with servicing those components in the confined spaces of equivalent diesel machines.



## A premium product for premium products

It goes without saying that the L25 Electric is a superior product. Add the benefits of being locally emission free to the proven performance of the Volvo L25, boasting a high torque Z-bar linkage and a very compact design, and you are equipped for any job. With both standard and fast-charging options available it's easy to adapt, so having diesel on your hands or spillages to clean up will soon be a thing of the past.



## 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.





# ADD SILENCE

Noise pollution is often accepted as part of daily life. Put on your noise cancelling headphones and just keep going. But that's not a solution for the classroom of children trying to concentrate. Or the office worker taking their lunch break in the park. If it's a Volvo L25 Electric working close by, it will add some silence back, helping everyone to focus on what's important to them.

# The innovative new L25 ELECTRIC

## GET ACCESS TO NEW MARKETS

- Ability to work indoor
- Perfect fit for noise and dust sensitive areas
- Ability to work out of standard hours
- Equipped with On-Board charger
- Fast charging option – 0-100% in 2 Hours

## EVERYTHING YOU'D EXPECT FROM VOLVO

- Compact Design and a Machine height below 2,5m made for the tightest construction sites
- Cab Comfort with the best all-round view and wide entry
- New HMI perfectly adapted to the new electric machine
- Z-bar linkage with high breakout force, excellent parallel movement on pallet forks and superior roll-back and dump angle
- Rigid planetary axles with 100% switchable differential for maximum traction and minimal tire wear
- Articulating-oscillating joint for best off-rad capability and stability
- Easy to maintain. All lubrication and maintenance points easily accessible.

## WORK ANYTHING, ANYWHERE

- Wide range of Volvo attachments
- Z attachment quick coupler with integrated 3rd hydraulic function
- Outstanding versatility
- Compact design
- Electro-hydraulic controls



## NEW LEVELS OF COMFORT

- Full LED lighting
- Low vibration
- Blows less dust
- Possibility to charge the machine at any point in time
- Less maintenance

## ZERO EMISSION ELECTRIC POWER

- Increased efficiency
- Locally emission free
- Sound level down tremendously
- No idling
- Theft protected fixed battery
- Newest Li-Ion Battery 48V Technology with a capacity of 39kWh



# Volvo L25 Electric in detail

## Electrical system

Electrical system	Lithium-ion	
Battery Voltage	V	48
Battery capacity (full package)	kWh	39
	Ah	900
Indicative runtime	hours	4-6
On board charging time 110 VAC	hours	~24
On board charging time 240 VAC	hours	~12
Off board charging time 480 VAC	hours	~2
Auxiliary Battery Voltage	V	12
Auxiliary Battery capacity	Ah	52

## Electrical motor

Driveline Motor type	Induction motor	
Driveline Motor power (peak)	kW / hp	36 / 48
Working Hydraulics Motor type	Permanent magnet	
Working Hydraulics Motor power (peak)	kW / hp	32 / 43

## Linkage

Z-bar linkage providing high breakout force to the bucket and also parallel movement to the fork frame thanks to Volvo's specific kinematics.		
Linkage system	Z	
Lift cylinders	2	
Tilt cylinders	1	
Lift time (loaded)	s	6
Lowering time (empty)	s	4
Dump time	s	1.5

## Tires

Size	335/80 R18
Rim	11 x 18

## Brake system

Dry disc brake system for service and parking brake: reliable braking system, acting upon all four wheels.	
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## Cab

Instrumentation: All important information is located in the operator's field of vision.	
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## Hydraulic system

Thermal controlled oil circuit with integrated cooling system. Electric-Hydraulic control valve: double acting control valve with three spool system. Flow independent and fully controllable via joystick			
Working pressure max	Mpa / psi	23	3,336
Flow	l/min / GPM	55	14.5
3rd Hydraulic circuit pressure max	Mpa / PSI	17.5	2,538
3rd Hydraulic circuit flow	l/min / GPM	55	14.5

## Drivetrain

Angle of oscillation	± °	10	
Oscillation at wheel, max.	mm / ft in	245	10"
Track	mm / ft in	1 402	4' 7"
Travel speed, forward/reverse	km/h / mph	16	10

## Steering System

Hydrostatic steering. Central articulating-oscillating joint. Steering pump: gear-type with priority valve			
Steering cylinders	1		
Working pressure	Mpa / psi	19	2,756
Maximum flow	l/min / GPM	55	14.5
Max articulation	± °	38	

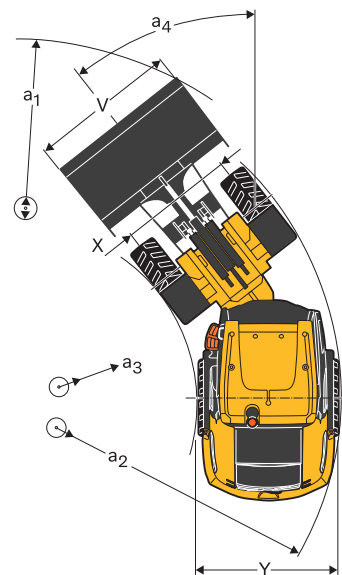
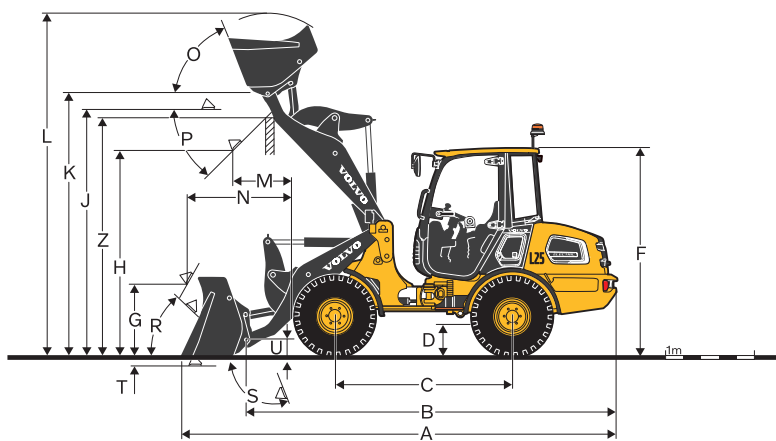
## Service Refill



Hydraulic tank	l / gal	37	9.8
Transmission oil	l / gal	0.6	0.16
Front axle oil	l / gal	5.5	1.45
Rear axle oil	l / gal	5.5	1.45

## Sound Level

Sound pressure level in cab according to ISO 6396:			
LpA	dB	72	
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC			
LwA	dB	88	

# Specifications



Data according to bucket type		General Purpose		4 in 1	
					
L25 with z-bar linkage and 335/80 R18 tyres					
Capacity heaped	m <sup>3</sup> / yd	0.9	1.18	0.8	1.05
Material density	kg/m <sup>3</sup> / lb/yd <sup>3</sup>	1 800	3,034	1 800	3,034
Static tipping load, straight (ISO / DIS)	kg / lb	3 615	7,970	3 300	7,275
Static tipping load, full turn 38° (ISO / DIS)	kg / lb	3 300	7,275	2 975	6,559
Hydraulic lifting capacity, max.	kN / lbf	55	12,364	51.5	11,578
Breakout force	kN / lbf	54.5	12,252	51.5	11,578
A Total length	mm / ft in	5 265	17' 3"	5 305	17' 5"
L Lift height, max.	mm / ft in	4 135	13' 7"	4 050	13' 3"
V Bucket width	mm / ft in	1 800	5' 11"	1 800	5' 11"
a <sub>1</sub> Clearance circle	mm	8 650	28' 5"	8 675	28' 6"
T Digging depth	mm	100	4'	105	4"
H Dump height	mm	2 500	8' 2"	2 440	8'
M Reach at max. height	mm	745	2' 5"	730	2' 5"
N Reach, max.	mm	1 525	5'	1 510	4' 11"
Operating weight	kg	5 000	16' 5"	5 100	16' 9"

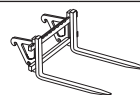
## DIMENSIONS

### L25 with z-bar linkage and 335/80 R18 tyres

B	mm / ft in	4 470	14' 8"
C	mm / ft in	2 125	7'
D	mm / ft in	310	1'
F	mm / ft in	2 480	8' 2"
G	mm / ft in	850	2' 9"
J	mm / ft in	2 970	9' 9"
K	mm / ft in	3 170	10' 5"
O	°	70	
P	°	45	
R	°	50	
S	°	96	
U	mm / ft in	200	8"
X	mm / ft in	1 410	4' 8"
Y	mm / ft in	1 740	5' 9"
Z	mm / ft in	2 880	9' 5"
a <sub>3</sub>	mm / ft in	3 935	12' 11"
a <sub>2</sub>	mm / ft in	2 155	7' 1"
a <sub>4</sub>	°	±38	

## Data with loading fork

### Centre of gravity 500 mm



Tipping load, full turn (ISO / DIS)	kg / lb	2 500	5,511
Payload according to EN 474-3, 60/80%	kg / lb	1 500/2 000	3,306 / 4,409
Payload 80%, transport position, 38° full turn	kg / lb	2 400	5,291

# Equipment

STANDARD EQUIPMENT
<b>Drivetrain</b>
Full electric drive
Operator-selected 100% differential locks in both axles
<b>Electric / Electronic control system</b>
Maintenance free 48V battery - protected and embeded in the machine structure
On-board charger
Standard charging cable
Fast charging machine preparation with weather protected socket
Maintenance free 12V auxiliary battery
High quality connectors
Protected battery cut-off switch
In-cab 12V power socket
Full LED Lights - Travel light equipment (Main Head Lights, Parking-, Rear-, Brake-, Hazard warning lights and direction indicators)
Full LED Lights - Working lights (2front and 2rear)
<b>Hydraulic system</b>
Gear-type pump
Electric-Hydraulic control valve three-spool system
3rd hydraulic circuit
Hydraulic couplings for: 3rd hydraulic circuit
<b>Cab</b>
Adjustable steering column
<b>Instrumentation &amp; controls</b>
Single lever incl. 3rd funtion - Electroproportional
12 Volt accessories socket
Signal horn
Hazard warning switch
Jogwheel for menu navigation
5 inch multicolor display
Digital information on 5inch Display:
Battery state of charge (SOC)
Operating hours
Differential locks
Battery charging
Indicators (left/right)
<b>Safety</b>
Rotating beacon
Audible reverse alarm
Anti-theft system
<b>Cab, Exterior</b>
ROPS/FOPS-cab with flexible mountings
Lockable door
All-round tinted safety glass
Windscreen wiper (front/rear)
Windscreen washer (front/rear)
Openable window on the right side
Door stops
External rear view mirrors (right/left)
4-way adjustable operator's seat
Orange Seat belt
Sunvisor
Heater with air-filter and defroster (front/rear)
Cab ventilation
Storage box in cab

STANDARD EQUIPMENT
<b>Working Equipment</b>
Hydraulic Z-Attachment bracket
Sweeper Preparation (7 pin electrical socket on boom)
Bucket level indicator
<b>Carriage Body</b>
Fenders (front/rear)
Lockable engine hood
Towing device
Lifting eyes
Tying down eyes
<b>Service and maintenance</b>
Tool kit
<b>Official approval</b>
Quality: DIN/ISO 9001
Environment: DIN/ISO 14001
Safety: CE compliant acc. Machinery Directive 2006/42/EC and EN 474-series
ROPS ISO 3471
FOPS ISO 3449
Noise Emission Directive 2000/14/EC
EMC 2014/30/EC
Tipping load / Payload: ISO 14397-1
Quality: DIN/ISO 9001
Environment: DIN/ISO 14001
Safety: CE compliant acc. Machinery Directive 2006/42/EC and EN 474-series
ROPS ISO 3471
FOPS ISO 3449
Noise Emission Directive 2000/14/EC
EMC 2014/30/EC
Tipping load / Payload: ISO 14397-1

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**OPTIONAL EQUIPMENT**

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**Electric / Electronic control system**

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Off Board Fast charger





# Keep it in the family

In addition to wheel loaders, 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. Volvo CE is moving towards a brighter, more sustainable future, and now you can too.



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