



Volvo Electric Compact Wheel Loaders 4.5 - 5.4 t

# L25 ELECTRIC

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## Uptime you can count on



- Work a full day Operating time calculator available (contact your dealer)
- Make the most of every charge: fully electric driveline with energy recovery function and auto-shutoff function
- Choice of charging solutions | 0-100% in up to 2 hours
- 2-year free servicing, 2-year full machine warranty

# Open up new opportunities



- Perfect fit for noise sensitive areas
- Ability to work out of standard hours
- Zero-tailpipe emissions: work indoors and in emission-restricted zones

# Electrifying performance

### Proven performance



- High lifting and breakout forces, superior roll-back and dump angles for bucket applications
- 100% parallel movements, outstanding lifting height and forward visibility for fork applications
- Rigid planetary axles, with 100% mechanical differential locks on the front and rear axles, offer maximum traction and minimal tire wear
- Articulating-oscillating center joint provides the best off-road capability and stability



### 30% less maintenance

- Maintenance-free electric motors, featuring auto shutoff to save wear
- Fully electric driveline reduces hydraulic oil need by half
- Easy ground level access to lubrication and maintenance points

### The best battery technology



- Lithium-Ion 48V battery 40kWh
- On-board charging done via Type 2 automotive standard inlet
- · Comes with 6kW on-board charger and necessary charging cable, plug and adapters
- · Fast charging possibilities
- Can be charged at any State Of Charge (SOC)
- Theft protected fixed battery
- Designed to deliver up to 2500 full charge cycles



### A new level of operator comfort

- Low vibration, low noise levels, no exhaust fumes
- Wide 3-point cab access
- Best all-round visibility
- Intuitive interface, Electrohydraulic controls
- Electric parking brake with hill hold functionality
- Programmable cab heater (Option)

## Work anything, anywhere



- Perfect fit for confined and narrow spaces
- Wide range of Volvo Attachments
- Attachment bracket with integrated third hydraulic function
- Customizable work modes including traction force, joystick and accelerator pedal sensitivity
- Maximum speed of 20km/h

Explore the machine in our walkaround video



# Volvo L25 Electric in detail

Battery type		
		Lithium-ion
Battery Voltage	٧	48
Battery capacity	kWh	40
	Ah	750
Indicative runtime	hours	Up to 8
On board charging time (0-100%):		
230 VAC, 6A	hours	~29
230 VAC, 8A	hours	~22
230 VAC, 10A	hours	~17
230 VAC, 13A	hours	~13
120 VAC, 15A	hours	~23
400 VAC, 16A (CEE)	hours	~6
230 VAC, 16A (caravan adapter)	hours	~10
240 VAC, 40A	hours	~6
Off board fast charging time (0-100%):		
400 VAC, 16A / 9.6kW	hours	~3.5
400 VAC, 32A / 17.3kW	hours	~2
	Au	xiliary Battery
Туре		AGM
Voltage	V	12
Capacity	Ah	50
Electrical Motor		
Driveline Motor type		Induction motor
Driveline Motor power (net)	kW	22
Working Hydraulics Motor type		Permanent magnet synchronous motor
Working Hydraulics Motor power (net)	kW	14

Linkage		
L2	5 Electric	P-Kinematics
The parallel linkage system offers 100% parallel fork. The linkage system and the attachment bra excellent visibility to the front attachment, fork ti The Volvo Attachment Bracket P (parallel) is equipins and an additional sealing ring for protection	cket are de nes and for ipped with	signed for an k tines end. long guide
Linkage system		Р
Lift cylinders		1
Tilt cylinders		1
Lift time (loaded)	s	6
Lowering time (empty)	S	4
Dump time	s	2.5
L2	25 Electric	Z-Kinematics
Z-bar linkage providing high breakout force to th movement to the fork frame thanks to Volvo's sp		
Linkage system		Z
Lift cylinders		2
Tilt cylinders		1
Lift time (loaded)	s	6
Lowering time (empty)	s	4
Dump time	s	1.5
Wheels and tires		
Size		335/80 R18
Rim		11 x 18
Brake system		

Central wet disc brake, hydraulic activated service brake and SAHR (spring applied hydraulically released) parking brake



Н١	/drai	ulic	Sı	/stem
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Max articulation

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

system. Flow independent and fully controllable via joystick				
Working pressure max	MPa	23		
Flow	l/min	55		
3rd Hydraulic circuit pressure max	MPa	17.5		
3rd Hydraulic circuit flow	l/min	55		
Drivetrain				
Angle of oscillation	±°	10		
Oscillation at wheel, max.	mm	240		
Track	mm	1 410		
Travel speed, forward/reverse				
1st gear	km/h	8		
2nd gear	km/h	20		

Steering System		
Undrastatia ataaring	Control articulating	eccillating ident

Hydrostatic steering. Central articulating-ospriority valve	cillating joint. G	ear pump with
Steering cylinders		1
Working pressure	MPa	19
Maximum flow	l/min	55

±°

38

Service Refill		
Hydraulic tank	I	40.5
Transmission oil	1	0.6
Front axle oil	1	5.4
Rear axle oil	1	5.5

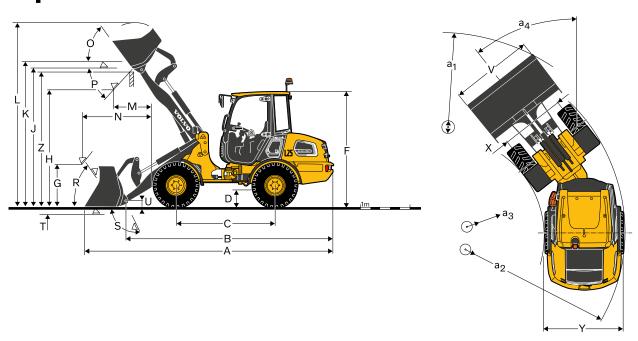
#### Cab

 $\label{limit} \textbf{Instrumentation:} \ \mbox{All important information is located in the operator's field of vision.}$ 

Sound level in cab according to ISO 6396		
$L_pA$	dB	72
Sound level in cab, without cab fan		
$L_pA$	dB	59.6
External sound level according to ISO 6395 and EU 2000/14/EC $$	Noise Di	rective
L <sub>WA</sub>	dB	89
External sound level		
L <sub>WA</sub>	dB	86.3



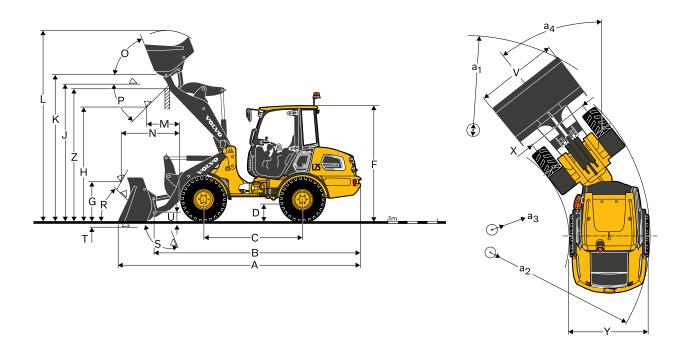
# **Specifications**



	General	General Purpose		4 in 1	
Bucket type L25 Electric with P-Kinematics and 335/80R18 tires			The state of the s		
Capacity heaped	m³	0.9	1.0	1.2	0.8
Material density	kg/m³	1900	1700	1300	2 000
Static tipping load, straight (ISO 14397)	kg	3 850	3 800	3 600	3 650
Static tipping load, full turn 38° (ISO 14397)	kg	3 450	3 400	3 250	3 250
Hydraulic lifting capacity, max.	kN	41	41	40	39
Breakout force	kN	37	34	30	37
A Total length	mm	5 320	5 370	5 300	5 320
L Lift height, max.	mm	4 175	4 245	4 300	4 170
V Bucket width	mm	1800	1800	1800	1800
a <sub>1</sub> Clearance circle	mm	8 540	8 575	8 550	8 535
T Digging depth	mm	45	45	40	70
H Dump height, 45°	mm	2 340	2 290	2 340	2 320
M Reach at max. height	mm	810	860	810	780
N Reach, max.	mm	1640	1 690	1640	1 610
Operating weight	kg	4 900	4 900	5 000	5 050

DIME	DIMENSIONS				
	L25 Electric with P-Kinematics and 335/80 R18 tyres				
В	mm	4 280			
С	mm	2 050			
D	mm	290			
F	mm	2 480			
G	mm	690			
J	mm	2 980			
K	mm	3 140			
0	0	56			
Р	0	45			
R	0	56			
S	0	65			
U	mm	145			
Χ	mm	1 410			
Υ	mm	1740			
Z	mm	2 905			
аз	mm	2 100			
a <sub>2</sub>	mm	3 890			
a <sub>4</sub>	0	±38			

L25 Electric P-Kinematics					
Data with loading fork Centre of gravity 500 mm		THE			
Tipping load, full turn (ISO / DIS)	kg	2 625			
Payload according to EN 474-3, 60/80%	kg	1600/2100			



Bucket type L25 Electric with Z-Kinematics and 335/80R18 tires		General	Purpose	Light Material	4 in 1
			The Hand		
Capacity heaped	m³	0.9	1.0	1.2	0.8
Material density	kg/m³	1800	1 600	1300	1900
Static tipping load, straight (ISO 14397)	kg	3 750	3 700	3 600	3 450
Static tipping load, full turn 38° (ISO 14397)	kg	3 350	3 300	3 250	3 100
Hydraulic lifting capacity, max.	kN	55	54.2	52.8	51.5
Breakout force	kN	54.5	47.5	42	51.5
A Total length	mm	5 445	5 375	5 480	5 480
L Lift height, max.	mm	4 125	4 170	4 260	4 080
V Bucket width	mm	1800	1800	1800	1800
a <sub>1</sub> Clearance circle	mm	8 875	8 780	8 840	8 895
T Digging depth	mm	100	100	100	105
H Dump height, 45°	mm	2 495	2 425	2 355	2 470
M Reach at max. height	mm	750	825	905	775
N Reach, max.	mm	1 525	1600	1 675	1 545
Operating weight	kg	5270	5270	5310	5450

DIMENSIONS				
L25 Electric with Z-Kinematics and				
335/80 R18 tyres				
В	mm	4 470		
С	mm	2 125		
D	mm	310		
F	mm	2 480		
G	mm	850		
J	mm	2 970		
K	mm	3 170		
0	0	70		
Р	•	45		
R	0	50		
S	0	96		
U	mm	200		
Χ	mm	1 410		
Υ	mm	1740		
Z	mm	2 880		
a <sub>3</sub>	mm	3 935		
a <sub>2</sub>	mm	2 155		
a <sub>4</sub>	0	±38		

L25 Electric Z-Kinematics				
Data with loading fork Centre of gravity 500 mm		The		
Tipping load, full turn (ISO / DIS)	kg	2 500		
Payload according to EN 474-3, 60/80%	kg	1500/2000		

# **Equipment**

#### STANDARD EQUIPMENT

#### Drivetrain

Full electric drive

Operator-selected 100% differential locks in both axles

Electric parking brake with hill hold function

Maintenance free wet brake system

#### Electric / Electronic control system

Maintenance-free 48V battery - protected and embedded in the machine structure  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right)$ 

6 Rack Battery System - 40kWh Gross Capacity

6 kW On-board charger with Type 2 socket

Standard charging cable with 3 plugs (domestic - white, CEE plug blue and red (for 230VAC 16A 1 phase)

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 (2 front and 2 rear)

#### Hydraulic System

Gear-type pump

Electric-Hydraulic control valve three-spool system

3rd hydraulic circuit

Hydraulic couplings for 3rd hydraulic circuit

Flow share function

#### Instrumentation & controls

Single lever including 3rd function - Electroproportional

12 Volt accessories socket

Signal horn

Hazard warning switch

Jogwheel for menu navigation

5 inch multicolor display

Digital information on 5 inch display

Battery state of charge (SOC)

Operating hours

Differential locks

Battery charging

Indicators (left/right)

Main beam head lamp

Direction (forward/reverse)

Hydraulic oil temperature

Hydraulic oil filter Parking brake

Jog-Dial for menu navigation and machine controls

Preset Work modes for different applications

Cruise control

Adjustable timer for cab heating

#### Safety

Rotating beacon (foldable)

Audible reverse alarm

Anti-theft system

#### STANDARD EQUIPMENT

#### Cab, Exterior

ROPS/FOPS-cab with flexible mountings

Adjustable steering column

DAB Radio preparation

Lockable doo

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

#### Working Equipment

Hydraulic P-Attachment bracket

7 pin electrical socket on boom (Sweeper preparation)

Bucket level indicator

#### Carriage Body

Fenders (front/rear)

Lockable engine hood

Towing device

Lifting eyes

Tying down eyes

#### Service and maintenance

Tool kit

### Official approval

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

ECE R100 (approval of vehicles with regard to specific requirements for

the electric power train)

Vehicle Homologation for public road traffic usage according German

StVZO-Requirements

#### **OPTIONAL EQUIPMENT** Electric / Electronic control system Fast charging machine preparation with weather protected socket Off Board Fast charger IP54 360A – 17.3kW Outdoor Off Board Fast charger IP21 200A – 9.6kW Indoor Off Board Fast charger IP21 360A - 17.3kW Indoor Hydraulic System 3rd function oil return line via filter Leakage line direct to hydraulic tank BIO degradable hydraulic oil 4th hydraulic circuit switched from 3rd function Instrumentation & controls Boom Suspension System Safety Safety brace Rotating beacon (magnetic) Safety valves on lift and tilt cylinders (hose rupture valves) Audible reverse alarm 92dB (white noise) Cab, Interior Programmable cab heater DAB Radio with Bluetooth/USB and AUX connection Air suspended and heated operator's seat Heated rear view mirrors Additional document box Working Equipment Hydraulic Z-Attachment bracket Carriage Body Headlight protection Worklight protection Rearlight protection Wheel/Tires 335/80R18 340/80R18 405/70R18 365/70R18 Other Special colour painting Slow Moving Vehicule (SMV) warning triangle Preparation for license plate front and/or rear **Attachments** Forks with mechanical tines movements Light Material bucket Side-Tip bucket

Material Handling Arm Multi-Purpose bucket Grading bucket General Purpose bucket Custom-Built Attachments

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.





# V O L V O