

V O L V O



Volvo Electric Compact Wheel Loaders 4.5 - 5.4 t

L25 ELECTRIC

Volvo Construction Equipment

L25 ELECTRIC

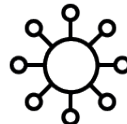


Uptime you can count on



- 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



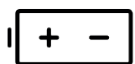
Proven performance

- 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, Electro-hydraulic 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

Electrical System		
Battery type		Lithium-ion
Battery Voltage	V	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
Auxiliary Battery		
Type		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)	

Linkage		
L25 Electric P-Kinematics		
The parallel linkage system offers 100% parallel lift with the loading fork. The linkage system and the attachment bracket are designed for an excellent visibility to the front attachment, fork tines and fork tines end. The Volvo Attachment Bracket P (parallel) is equipped with long guide pins and an additional sealing ring for protection against dust and mud.		
Linkage system		P
Lift cylinders		1
Tilt cylinders		1
Lift time (loaded)	s	6
Lowering time (empty)	s	4
Dump time	s	2.5
L25 Electric Z-Kinematics		
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
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		



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	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

Hydrostatic steering. Central articulating-oscillating joint. Gear pump with priority valve		
Steering cylinders		1
Working pressure	MPa	19
Maximum flow	l/min	55
Max articulation	± °	38

Service Refill

Hydraulic tank	l	40.5
Transmission oil	l	0.6
Front axle oil	l	5.4
Rear axle oil	l	5.5

Cab

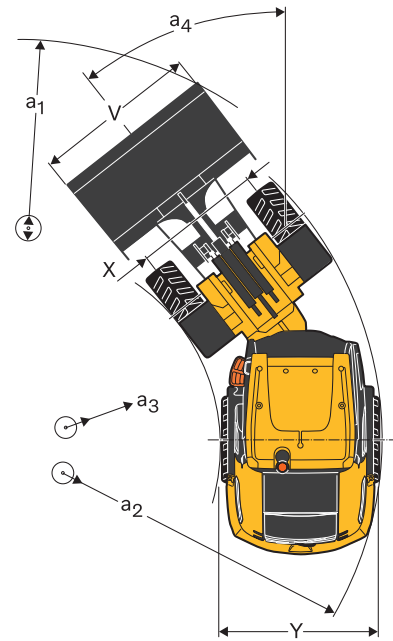
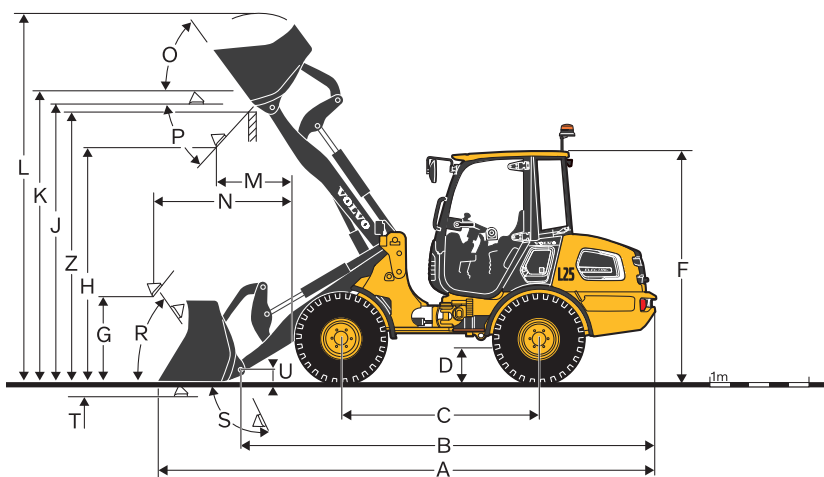
Instrumentation: All important information is located in the operator's field of vision.



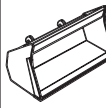
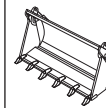
Sound Level

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 Noise Directive 2000/14/EC		
L _{WA}	dB	89
External sound level		
L _{WA}	dB	86.3



Specifications



Bucket type	General Purpose				Light Material	4 in 1
						
L25 Electric with P-Kinematics and 335/80R18 tires						
Capacity heaped	m ³	0.9	1.0	1.2	0.8	
Material density	kg/m ³	1 900	1 700	1 300	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	1 800	1 800	1 800	1 800	
a ₁ 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	1 640	1 690	1 640	1 610	
Operating weight	kg	4 900	4 900	5 000	5 050	

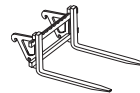
DIMENSIONS

L25 Electric with P-Kinematics and 335/80 R18 tyres

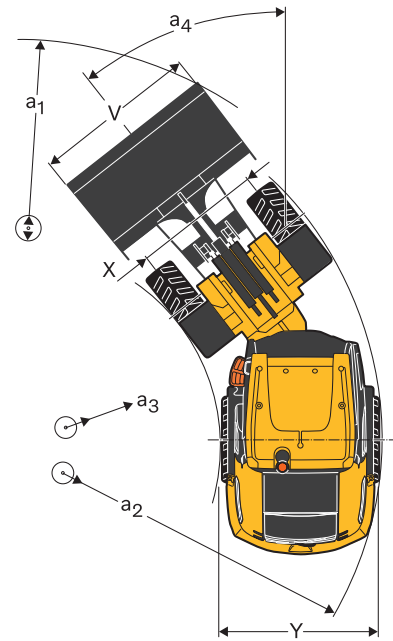
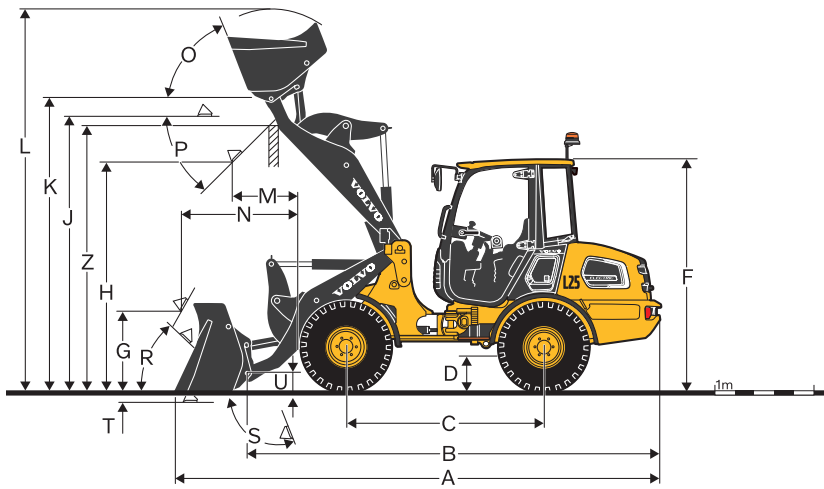
B	mm	4 280
C	mm	2 050
D	mm	290
F	mm	2 480
G	mm	690
J	mm	2 980
K	mm	3 140
O	°	56
P	°	45
R	°	56
S	°	65
U	mm	145
X	mm	1 410
Y	mm	1 740
Z	mm	2 905
a ₃	mm	2 100
a ₂	mm	3 890
a ₄	°	±38

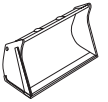

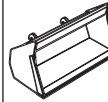
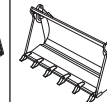
L25 Electric P-Kinematics

Data with loading fork
Centre of gravity 500 mm



Tipping load, full turn (ISO / DIS)	kg	2 625
Payload according to EN 474-3, 60/80%	kg	1 600 / 2100



Bucket type	General Purpose		Light Material	4 in 1	
					
L25 Electric with Z-Kinematics and 335/80R18 tires					
Capacity heaped	m ³	0.9	1.0	1.2	0.8
Material density	kg/m ³	1800	1600	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	1 800	1 800	1 800	1 800
a ₁ 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	1 600	1 675	1 545
Operating weight	kg	5 270	5 270	5 310	5 450

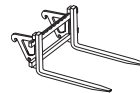
DIMENSIONS

L25 Electric with Z-Kinematics and 335/80 R18 tyres

B	mm	4 470
C	mm	2 125
D	mm	310
F	mm	2 480
G	mm	850
J	mm	2 970
K	mm	3 170
O	°	70
P	°	45
R	°	50
S	°	96
U	mm	200
X	mm	1 410
Y	mm	1 740
Z	mm	2 880
a ₃	mm	3 935
a ₂	mm	2 155
a ₄	°	±38

L25 Electric Z-Kinematics

Data with loading fork
Centre of gravity 500 mm



Tipping load, full turn (ISO / DIS)	kg	2 500
Payload according to EN 474-3, 60/80%	kg	1 500 / 2 000

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

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 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

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



ELECTRIC

ELECTRIC

L25

VOLVO





BIG ENOUGH TO TRUST SMALL ENOUGH TO CARE

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.

Visit www.cjd.com.au to read more about our history, range of products and to locate your local branch or dealer.

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54 Great Eastern Highway
South Guildford, WA 6055

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