

VOLVO COMPACT WHEEL LOADERS L20B, L25B



• **Gross Power:**

L20B: SAE J1995 41 kW
L25B: SAE J1995 45 kW

• **Net Power:**

L20B: SAE J1349 40 kW
L25B: SAE J1349 44 kW

• **Operating Weight:**

L20B: 4,3 - 4,4 t
L25B: 4,8 - 4,9 t

• **Bucket Capacities:**

L20B: 0,7 - 1,1 m³
L25B: 0,85 - 1,2 m³

• **High-performance, low environmental impact**

Volvo diesel engine: quiet, low emissions, economical fuel consumption.

• **Hydrostatic drive with significant advantages:**

- Easy to operate due to automatic drive facility.
- Maintains high drawbar pull even when working hydraulics are engaged.
- Advantageous hydrostatic brakes, wear-free and safe.

• **Powerful parallel loader linkage** for excellent loading-fork lifting ability.

• **Operator-selected 100% differential lock** on both axles to give optimum traction.

• **Standard hydraulic quickchange coupling:** various tried-and-tested attachments for a wide range of applications.

• **Purpose designed cab comfort:**

- Audio-visual warning system for monitoring operating systems
- Multi-function lever.

MORE CARE. BUILT IN.



SPECIFICATIONS

Engine

Volvo in-line 4-cylinder, 4 stroke, direct injection diesel engine, oil/air cooled.

Air cleaning: 1. Paper filter with indicator in cab. 2. Safety filter

	L20B	L25B
Engine	D3DCAE2	D3DCBE2
Gross power @	2300 r/min	2300 r/min
SAE J1995	41 kW - 56 hp	45 kW - 62 hp
Net power @	2300 r/min	2300 r/min
SAE J1349 - DIN ISO 1585	40 kW - 54 hp	44 kW - 60 hp
Max torque @	1700 r/min	1700 r/min
SAE J1349 net - DIN ISO 1585	180 Nm	190 Nm
DIN ISO 1585	180 Nm	190 Nm
Cubic capacity	3,11 l	3,11 l
Bore	94 mm	94 mm
Stroke	112 mm	112 mm

Electrical system

	L20B	L25B
Voltage/Battery capacity	12 V - 88 Ah	12 V - 88 Ah
Alternator rating	1120 - 80 W/A	1120 - 80 W/A
Starter motor output	2,2 kW	2,2 kW

Drivetrain

Transmission: hydrostatic transmission, full power shift under load, both when changing direction (forward and reverse) and between ranges. Maximum drawbar force can be achieved in all ranges. "Inch/brake pedal" for variable machine speed control and power transfer to bucket hydraulics at constant engine rpm. Multi-function lever for change of direction, differential lock and hydraulic-control. Axles: all-wheel drive by two rigid mounted planetary axles. Differential locks: hydraulically actuated 100% differential locks in both axles. Frame: solid front and rear frame, robot-welded. Articulating oscillating joint for optimum maneuverability and traction.

	L20B	L25B
Oscillation at wheel, max.	226 mm	245 mm
Track	1300 mm	1410 mm
Angle of oscillation	±10°	±10°

Tyre:

	L20B	L25B
Size	12.0-18	12.5-18
Rim	11 x 18	11 x 18

Maximum speed

	L20B	L25B
1st range forward/reverse	4,5 km/h	5 km/h
2nd range forward/reverse	20 km/h	20 km/h

Brake system

Service brake: reliable dual braking system, acting upon all four wheels.

1. Wear-free, hydrostatic inching brake.
 2. Central friction brake, actuated via "inch/brake pedal". First stage of pedal stroke actuates the inching facility, the last third of pedal stroke applies the central friction brake.
- Parking brake: central drum brake, acting upon all four wheels.

Steering system

Hydrostatic steering. Central articulating-oscillating joint.

Steering pump: gear-type pump.

Steering cylinder: 1 double-acting steering cylinder.

Steering:

	L20B	L25B
Angle of articulation	±38°	±38°

Steering pump:

	L20B	L25B
Flow @ engine r/min	25 l/min - 2300 r/min	25 l/min - 2300 r/min
Relief valve pressure	18,5 MPa	18,5 MPa

Cab

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

Hydraulic system

Thermostatically controlled oil circuit with integrated cooling system. Hydraulic control valve: double acting control valve with three spool system.

1. Lifting function / 2. Tilting function / 3. Additional function for hydraulic attachment bracket. Unlock, neutral, lock. Hydraulic oil filter: combination suction and return-filtration cartridge with a 10 µm filter. The filter can be replaced without emptying the hydraulic oil tank. Hydraulic pump: gear type-pump.

Hydraulic pump:

	L20B	L25B
Flow @ engine r/min	55 l/min - 2300 r/min	55 l/min - 2300 r/min
Relief valve pressure	20 MPa	23 MPa

Linkage

Parallel linkage with high breakout force and exact parallel liftarm action.

	L20B	L25B
Lift cylinders / Tilt cylinders	1/1	1/1
Lift time (loaded)	6,0 s	6,0 s
Lowering time (empty)	4,0 s	4,0 s
Dump time	2,0 s	2,0 s
Crowd time	1,5 s	1,5 s

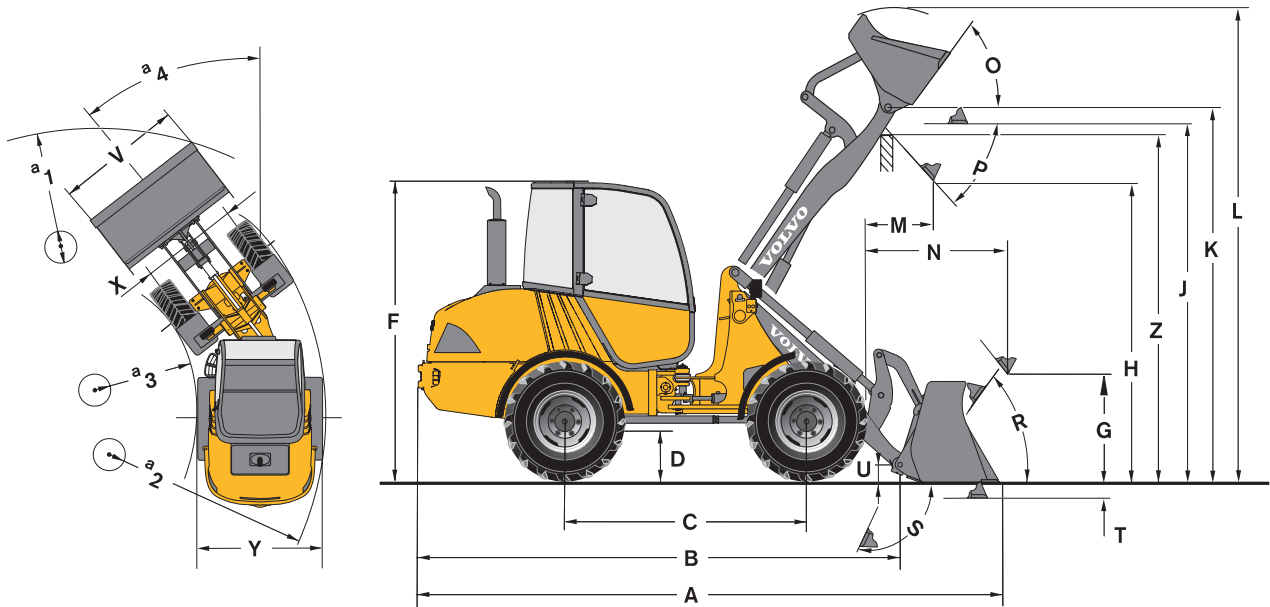
Capacities

	L20B	L25B
Engine	10,5 l	10,5 l
Fuel tank	60,0 l	60,0 l
Front axle	4,1 l	4,1 l
Rear axle, incl. drop-box	5,8 l	5,8 l
Hydraulic tank, incl. hydraulic system	60,0 l	60,0 l

Noise levels

The L20B conforms to the 2006 European Machine Directive Noise Level (2000/14/CE) of 99 dB(A) for this class of machine. The L25B conforms to the 2006 European Machine Directive Noise Level (2000/14/CE) of 99 dB(A) for this class of machine.

SPECIFICATIONS - L20B

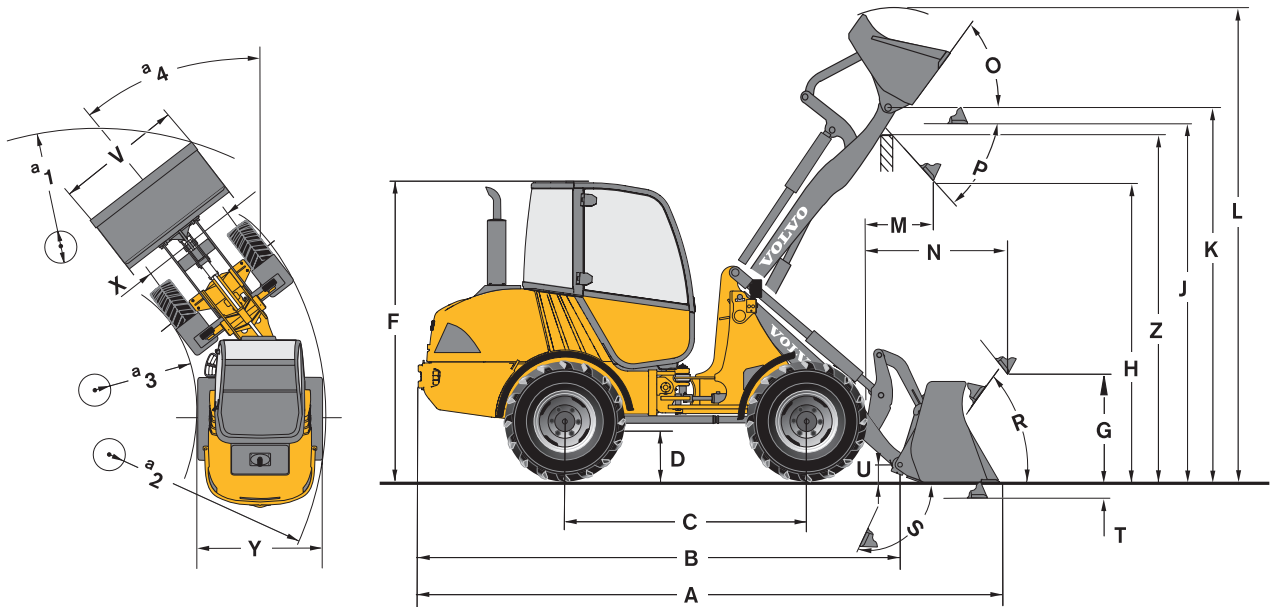


Data according to bucket type		General Purpose		Light material	4 in 1	High-Tip
L20B with parallel-linkage, Z-attachment carrier and 12.0-18 tyres.						
Capacity heaped	m ³	0,7	0,85	1,0	0,65	1,1
Material density	kg/m ³	1900	1600	1400	1900	1000
Static tipping load, straight (ISO / DIS)	kg	3250	3200	3150	3000	2500
Static tipping load, full turn 38° (ISO / DIS)	kg	2900	2850	2800	2650	2250
Hydraulic lifting capacity, max.	kN	35,0	34,0	33,5	32,5	28,0
Breakout force	kN	35,0	30,5	28,0	36,5	-
A Total length	mm	5035	5135	5195	5005	5510
L Lift height, max.	mm	4060	4140	4190	4070	4890
V Bucket width	mm	1650	1650	1800	1650	1800
a ₁ Clearance circle	mm	8210	8260	8430	8220	8620
T Digging depth	mm	120	120	120	160	120
H Dump height	mm	2510	2435	2395	2480	3540
M Reach at max. height	mm	660	720	765	575	1005
N Reach, max.	mm	1475	1535	1580	1390	2140
Operating weight	kg	4300	4330	4340	4460	4670

L20B with parallel-linkage, Z-attachment carrier and 12.0-18 tyres	
B	4275 mm
C	2050 mm
D	300 mm
F	2450 mm
G	875 mm
J	2980 mm
K	3125 mm
O	56°
P	45°
R	56°
S	65°
U	145 mm
X	1300 mm
Y	1625 mm
Z	2885 mm
a ₂	3830 mm
a ₃	2160 mm
a ₄	±38°

Data with loading fork		
Centre of gravity 500 mm		
Tipping load, full turn (ISO / DIS)	kg	2290
Payload according to EN 474-3, 60/80%	kg	1350/1800
Payload 80%, transport position, 38° full turn	kg	2200

SPECIFICATIONS - L25B



Data according to bucket type		General Purpose		Light material	4 in 1	High-Tip
L25B with parallel-linkage, Z-attachment carrier and 12.5-18 tyres.						
Capacity heaped	m ³	0,85	1,0	1,2	0,8	1,1
Material density	kg/m ³	1900	1600	1300	1800	1200
Static tipping load, straight (ISO / DIS)	kg	3800	3750	3700	3400	3100
Static tipping load, full turn 38° (ISO / DIS)	kg	3400	3350	3300	3050	2800
Hydraulic lifting capacity, max.	kN	41,0	40,2	39,5	37,8	34,0
Breakout force	kN	37,0	32,5	29,0	35,7	-
A Total length	mm	5085	5185	5285	5110	5500
L Lift height, max.	mm	4100	4195	4290	4085	4890
V Bucket width	mm	1800	1800	1800	1800	1800
a ₁ Clearance circle	mm	8370	8425	8480	8405	8610
T Digging depth	mm	105	105	105	145	105
H Dump height	mm	2480	2410	2340	2410	3550
M Reach at max. height	mm	675	745	815	635	985
N Reach, max.	mm	1495	1560	1635	1455	2115
Operating weight	kg	4800	4830	4860	5010	5140

L25B with parallel-linkage, Z-attachment carrier and 12.5-18 tyres	
B	4265 mm
C	2050 mm
D	320 mm
F	2475 mm
G	840 mm
J	2990 mm
K	3140 mm
O	56°
P	45°
R	54°
S	65°
U	145 mm
X	1410 mm
Y	1735 mm
Z	2895 mm
a ₂	3880 mm
a ₃	2100 mm
a ₄	±38°

Data with loading fork		
Centre of gravity 500 mm		
Tipping load, full turn (ISO / DIS)	kg	2670
Payload according to EN 474-3, 60/80%	kg	1600/2100
Payload 80%, transport position, 38° full turn	kg	2500

STANDARD EQUIPMENT

Engine

Diesel engine, direct fuel injection.
Extra fuel filter.
Cold start aid.
Dry-type air filter.

Electrical system

Alternator 80 A.

Lighting

Main head lights (halogen)
full/dipped/asymmetrical.
Working light (rear right).
Parking lights.
Rear lights.
Brake lights.
Direction indicators.
Hazard warning lights.
Cab lighting.

Instrumentation & controls

Multi-function lever.
12 Volt accessories socket.
Horn.
Hazard warning switch.
Safety start.
Analogue information for:
Fuel level
Operating hours.
Illuminated symbols for:
Differential locks
Battery charging
Indicators (left/right)
Main beam
Pre-heater

Direction (forward/reverse)
Travel (quick, slow)
Fuel level.
Illuminated symbols with acoustic signal
(with ignition on) for:
Engine temperature
Engine oil pressure
Hydraulic oil temperature
Hydraulic oil filter
Air filter restriction
Parking brake.

Drivetrain

Hydrostatic drive.
Operator-selected 100% differential locks.
L20B: Tyres 12.0-18.
L25B: Tyres 12.5-18.

Cab Exterior

Removable 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 of the
machine.
Door stops.
External rear view mirrors (right/left).

Cab Interior

4-way adjustable operator's seat.
Seat belt.
Sunvisor.
Heater with air-filter and defroster (front/rear)
Cab ventilation.
Storage box in cab.

Hydraulic system

Gear-type pump.
Control valve three-spool system.
3rd hydraulic circuit.

Working Equipment

Hydraulic quick-change attachment carrier.

Carriage Body

Fenders (front/rear).
Lockable engine hood.
Vertical exhaust.
Towing device.
Lifting eyes.

International Standards for Machines and Production

Quality: DIN/ISO 9001.
Safety: CE - Criteron.
Machine guide-lines 98/37/EC.
ROPS ISO 3471.
FOPS ISO 3449.
Operating weight: ISO 7131.
Tipping load / Payload: ISO / DIS 14397-1.
EMV (Electromagnetic Compatibility).
89/336/EEC plus supplement Environment:
DIN/ISO 14001.
Sound regulation: 2000/14/EC.
German environmental seal "low noise"
RAL - UZ 53".

OPTIONAL EQUIPMENT (Standard on certain markets)

Engine equipment

Pre-heater.
Pre cleaner air filter (Turbo II).
Oilbath air filter.
Exhaust particle filter.

Cab

Handthrottle.
Hand control inch valve.
Airconditioner.
Radio.

Working lights (2 front/1 rear left).
Air suspension operator's seat.

Working Equipment

Bucket level indicator.

Hydraulic system

Hydraulic couplings for:
3rd hydraulic circuit.
4th hydraulic circuit.
Additional pump.

Environment

Biodegradable hydraulic oil.

Safety

Anti-theft system.
Protective guards for:
Main head lights
Working lights
Rear lights.
Rotating beacon.
Audible reverse alarm.

Service and maintenance

Tool kit.

ATTACHMENTS

A small selection of the most popular
attachments:
Bucket
Loading Fork

4-in-1 Bucket
Material Handling Arm
Sweeper
Side-Tip Bucket
High-Tip Bucket

Hay/Manure Fork
Snow Plough
Further buckets and attachments available on
request.



Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from an engineering heritage of over 170 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different – **More care. Built in.**



All products are not 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.

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