volvo compact wheel loaders L20B, L25B



MORE CARE. BUILT IN.



Courtesy of Machine.Market

DESIGNED FOR MANY HOURS OF EFFICIENT WORK.

Some business is apparently a question of space. This is why Volvo is offering you the L20B and L25B compact wheel loaders, both extremely compact in dimensions, robust and equipped with an efficient parallel loader linkage. Come and discover these innovative, small size loaders opening up new dimensions in operator comfort and performance.

Getting into and out of the loader is safe and comfortable. Two solid grab handles grant a firm hold when climbing the single step taking you to the cab. You pass the wide doorway, and you are entering a working place made to measure any operator. In spite of the compact exterior dimensions of the machine, the interior of the cabin is roomy and spacious. Enough head room and a multiple adjustable operator's seat ensure that even tall operators will immediately feel at home. A practical holder at the back of the operator's seat keeps beverage and mobile phone well at hand, while personal things can be stored in the compartment incorporated into the arm rest. An efficient three stage heating and ventilation system with filter and well positioned air distribution provides a pleasant working climate in the cab.

You will soon find the benefits of the new corner position of the dash-board. It combines the advantage of an undisturbed front view and at the same time it allows an easy monitoring of the main machine functions as it is within the operator's field of vision. The layout of the dashboard and controls is simple and functional. A clearly arranged combination of analogue indicator elements and warning lights provide all the information the operator requires. All pedals, levers and controls are laid out for ease of operation. Control of direction and of the hydraulic functions including the 100% differential locks are affected via the multi-function lever. The inch brake pedal allows permanent speed adjustment and safe braking without changing to another pedal.

Great attention has been paid to safety. The machine offers good stability thanks to the rear wrap-around counterweight, the cab is designed according to ROPS/FOPS safety standards. The rounded rear end of the machine and the large glazed surface areas surrounding the cab provide excellent allround visibility, improving safety at work.



Simple, sturdy door.



Adjustable sprung seat to suit each operator.



Protected open door.

Courtesy of Machine.Market



- Compartment underneath the arm rest.
- Ideally positioned pedals.





- Well thought-out ergonomic cabin.
- Fully opening side window.

SMALL IN SIZE - GREAT IN PERFORMANCE.

Working on narrow sites calls for limitations in size, not in productivity. With regards to this, the L20B and L25B leave nothing to be desired. They are reliable, stable and are made for demonstrating their extraordinary performance in areas which are not accessible with other machines.

Compactness at its best, what is unique about the compactness of an L20B is the possibility of managing passages with a vertical clearance as low as 2,5 m. To access the interior of buildings it is even possible to remove and then replace the removable cab.

Like every Volvo Compact wheel loader, the L20B and L25B is an expert in mobility. Thanks to the well-positioned wrap around counterweight and the articulating oscillating joint it is extremely stable even on rough terrain. The 100% operator selectable differential lock, which is standard on both axles allow the machine to manoeuvre on all ground conditions with optimum traction on difficult ground and low ground pressure on delicate surfaces.

Both the L20B and L25B have the Volvo attachment bracket which allows one of more than 60 different attachments to be fitted to the machine within a few seconds and without the driver having to leave the comfort of the operator's cab. The optional skid steer attachment bracket allows the connection of a wide variety of skid steer attachments. Regarding performance these small machines are a real surprise. They boast an outstanding lifting capacity of 1,8 tons, just the right power for efficient handling of the standard pallets. The same is true for the lift height. The linkage reaches important lifting positions allowing even the loading of four axle trucks and has unrivalled reach due to the design of the parallel loader linkage. Volvo's parallel loader linkage also has full parallelism of the load in any lifting position.

State of the art technology gives you the best possible output. A powerful Volvo engine at the core of the system supplies ample power. Smooth Working Cycles are assured due to the dual circuit hydraulic system with separate pumps for working and steering hydraulics, this ensures total independence of movements, which contributes to the smoothness of working cycles.



Outstanding manoeuvrability even in difficult situations.



Long reach for loading, unloading.



Precision and power.

Courtesy of Machine.Market



- Versatile machine.
- Excellent parallel lift due to the Volvo parallel linkage.
- Compact dimensions allowing access to otherwise unreachable sites.







- The optional skid steer attachment bracket allows many skid steer attachments to be used.
- Time saving and convenient Volvo attachment bracket.

EASY MAINTENANCE AND TOP ECONOMY.

Like all Volvo's, the L20B, L25B have been designed with full knowledge of the daily requirements on site. In this respect simple servicing is one of the major points, just as from the economical point of view. Simple service is the best guarantee for regular maintenance, which is an absolute must for maintaining an optimum machine function and a maximum residual value for the future.

Great attention has been drawn to the fact of making the L20B and L25B as service friendly as possible. All main components and service checkpoints are located under the large engine hood. Filters and battery are easily exchangeable. The tank's filler is wide enough to make refilling possible directly from the fuel can. Easily accessible lubrication points on the articulating oscillating joint make greasing a simple task.

Daily service checks can be executed within a very short time. The dipstick for the engine oil level is easily to reach, sight glasses advise on hydraulic oil levels at a glance, hydraulic pressure and engine status can be monitored by warning lights on the dashboard. For easy checking of safety fuses and relays a complete modular electric board is centrally mounted and accessed by opening a separate lid on the right side of the machine.

High Quality Components. All efforts have been taken to supply you with a machine to serve you many hard working hours throughout a long, reliable service life. You can be sure that only high quality materials and components have been used in the production process.

Large dimensioned sealed bearings on linkage and articulating oscillating joint ensure minimized wear. A standard water separator in the fuel system ensures a long service life of the high pressure elements in the engine. Good news for the service personnel. They will appreciate that the service intervals for long term service have been considerably prolonged on the L20B and L25B, which saves time and money.

A Volvo Compact Wheel Loader is a sound investment - for several reasons. The main reason is its price/performance ratio. Another economical plus is the fact that a Volvo compact wheel loader encompasses several machines in one. With use of its interchangeable attachments you can convert it to your needs, keeping downtime to a minimum. No matter what the task may be, there will always be a job for your Volvo.

Competent Supplier Support, when purchasing a Volvo you can take advantage of the wide spread Volvo dealer network. Their concern is to give you every support you need to do a good job. They can offer you a comprehensive range of construction related equipment and are always ready to help you with advice on applications, technical support, and after sales service. Ask your local dealer about the comprehensive Volvo financial service or about special offers suitable for you. Moreover, you can also count on Volvo in case of an emergency. An elaborated system will help to supply you with the genuine Volvo parts you require, delivered as quickly as possible to keep your downtime as short as possible.



Easy air filter change.



Easy fuel filling, even directly form a fuel can without spout of funnel.



Easy checking of diesel lift pump and filter.



 Easy access to the hydraulic pumps. Courtesy of Machine.Market

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- Electrics housed under a single lockable cover.
- Well laid out engine compartment with easy access to everything.



• Articulating oscillating joint for optimum manoeuvrability.

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	3,111	3,111
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°		
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Tyre:				
Size	12.0-18 12.5-18			
Rim	11 x 18	11 x 18		
Maximum speed				
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:

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	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 μ m 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

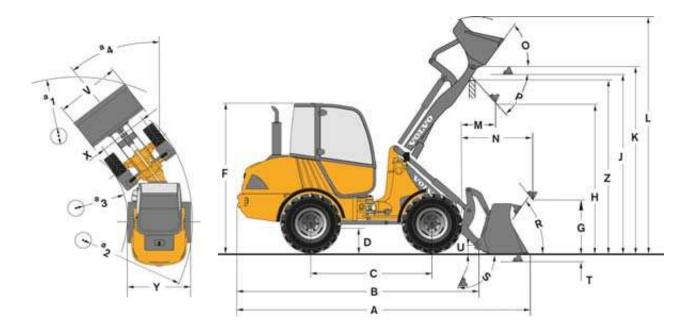
Capacities

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

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 1	2.0-18 tyres.	P				
Capacity heaped	m³	0,7	0,85	1,0	0,65	1,1
Material density	kg∕m³	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
a1 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
Data with loading fork Centre of gravity 500 mm				Ľ		
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

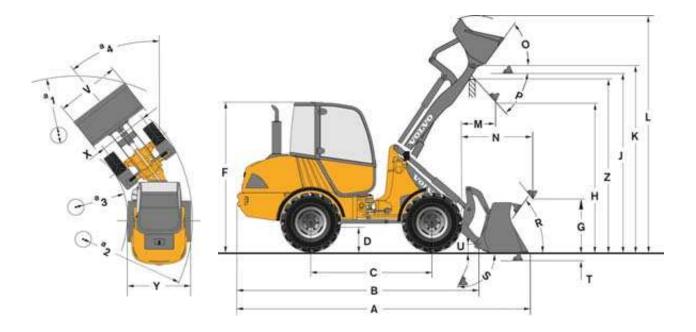
kg

2200

Z-atta	L20B with parallel-linkage, Z-attachment carrier and 12.0-18 tyres			
В	4275 mm			
С	2050 mm			
D	300 mm			
F	2450 mm			
G	875 mm			
J	2980 mm			
К	3125 mm			
0	56°			
Р	45°			
R	56°			
S	65°			
U	145 mm			
Х	1300 mm			
Υ	1625 mm			
Z	2885 mm			
a_2	3830 mm			
a ₃	2160 mm			
a ₄	±38°			

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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.	P				S)
Capacity heaped	m³	0,85	1,0	1,2	0,8	1,1
Material density	kg∕m³	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
Data with loading fork Centre of gravity 500 mm				Ż		
Tipping load, full turn (ISO / DIS) kg			2	670		

kg

kg

1600/2100

2500

par Z-atta	L25B with parallel-linkage, Z-attachment carrier and 12.5-18 tyres			
В	4265 mm			
С	2050 mm			
D	320 mm			
F	2475 mm			
G	840 mm			
J	2990 mm			
К	3140 mm			
0	56°			
Р	45°			
R	54°			
S	65°			
U	145 mm			
Х	1410 mm			
Y	1735 mm			
Z	2895 mm			
a ₂	3880 mm			
a ₃	2100 mm			
a ₄	±38°			

Payload according to EN 474-3, 60/80%

Payload 80%, transport position, 38° full turn

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

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.

ATTACHMENTS

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

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.

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

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".

Safety

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

Service and maintenance Tool kit.

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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