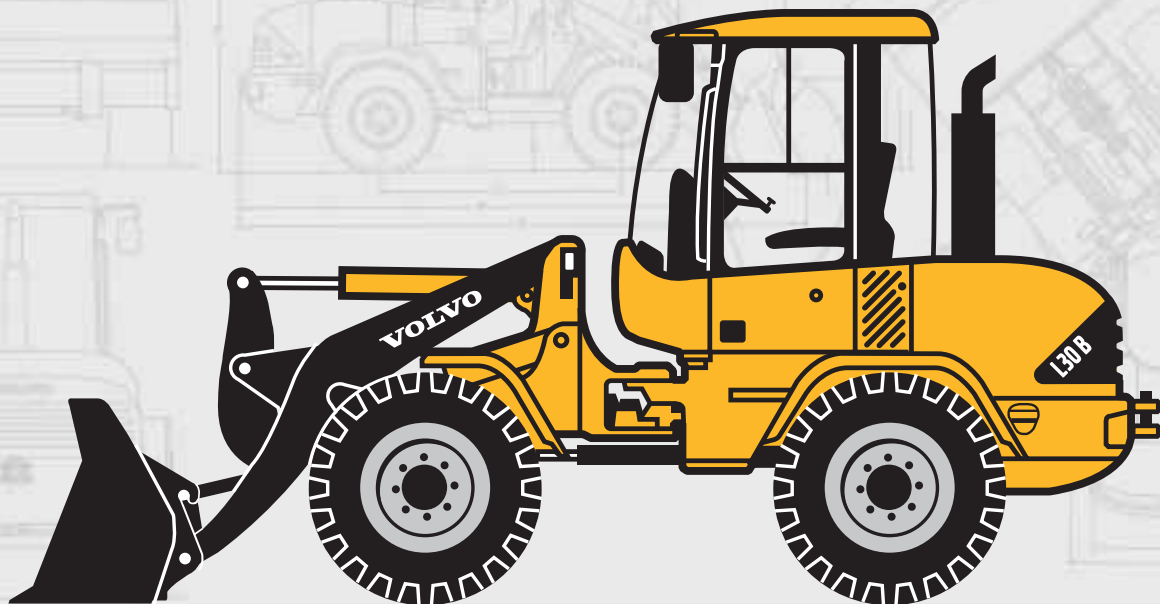


VOLVO COMPACT WHEEL LOADER

L30B



- Gross Power:
SAE J1995 52/71 kW/hp
Net Power:
SAE J1349 50/68 kW/hp
- Operating Weight:
5,1 - 5,2 t
- Bucket Capacities:
0,9 - 1,4 m³
- Loading fork payload (80%):
2050 - 2300 kg
- High-performance, low environmental impact 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 Z-bar loader-linkage with two lifting cylinders:
 - High breakout force and lifting capacity in bucket applications.
 - Exceptional parallel lifting with the loading forks.
 - Excellent fork-lift capacity.
- Optimum traction and manoeuvrability due to portal axles and operator-selected 100% differential lock on both axles.
- Standard hydraulic quick-change coupling:
Various tried-and-tested attachments for a wide range of applications.
- Purpose designed cab comfort:
Operator seat, arm rest, instrument panel with integrated steering wheel, can all be adjusted independantly from one another.

VOLVO

A wheel loader of the compact class from Volvo

Compact wheel loader L30B



First-class operator comfort

Mount your new Volvo loader and start into a successful work day. Your compact machine from Volvo makes it easy for you. Its spacious, comfortable cabin is entirely designed for precise and fatigue free work: excellent air conditioning, adjustable operator's seat and individually adjustable steering column. Clearly arranged dash board with an information system to monitor important operating data.

Innovative Design

The new Volvo wheel loaders are something to be proud of. Their unmistakable rounded silhouette is pointing the way for a completely new generation of construction equipment. The attractive appearance is combined with function: Rounded rear section and 3-D-panorama cabin with extremely narrow frame parts enable an all-round view which has never before been achieved - for additional safety at work. With their compact dimensions and the selectable 100% differential lock these machines can easily cope with difficult terrain.



Uncompromising performance

Well-proven technology, high quality components and a well thought-out design: engine and central maintenance points in a service-friendly transverse arrangement. Powerful Z-bar loader linkage with excellent lifting capacities and breakout forces. Durable hydrostatic travel drive for constant power. Strong diesel engines with high power reserves. Exemplary environmental features: excellent fuel economy, operation with low exhaust and reduced noise emissions. Approved by the German «Blue Angel» environmental seal for low noise machine operation (20 km/h version).



- 1 Membrane key pad with symbols and integrated LEDs**
- Entry and retrieval of basic operating data
 - Functional keys for various operating functions
 - Anti-theft function via numeric code
- 3 6-digit LED-display**
- Indication of operating data

- 2 Colour-coded LED-illuminated symbols**
- as controls
 - as warning symbols combined with acoustic signal
- 4 Analog LED-information**
- Fuel level
 - Engine temperature
 - Drive system oil temperature



Z-bar loader-linkage - robust multi-purpose loader-linkage with high breakout and lift forces. Powerful in loading and production.



Non stop operation

Don't forget your breaks. Otherwise it may easily happen that you are on the go around the clock. Because there is always something to do for a real Volvo allrounder: in the morning with a bucket, at noon with the loading fork, in the afternoon with the road sweeper. Or with another one of the more than 60 attachments, with which you can convert your compact Volvo to your individual needs. With hardly any loss of time, because the hydraulic quick change system is standard on all machines.





ENGINE

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

Air cleaning:

1. Paper filter with indicator in cab
2. Safety filter

Engine	D3DCDE2
Gross power @	2300 r/min
SAE J1995	52 kW
SAE J1995	71 hp
Net power @	2300 r/min
SAE J1349 - DIN ISO 1585	50 kW
SAE J1349 - DIN ISO 1585	68 hp
Max. torque @	1600 r/min
SAE J1349 netto	241 Nm
DIN ISO 1585	241 Nm
Cubic capacity	3,11 l
Bore	94 mm
Stroke	112 mm



ELECTRICAL SYSTEM

Rated voltage	12 V
Battery voltage	12 V
Battery capacity	88 Ah
Alternator rating	1120/80 W/A
Starter motor output	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 use of the servo-control.

Axles: all-wheel drive by two rigid portal axles.

Differential locks: hydraulically actuated 100% operator selected differential locks in both axles.

Frame: solid front and rear frame, robot-welded. Articulating-oscillating joint for optimum manoeuvrability and traction.

Oscillation at wheel, max.	250 mm
Track	1436 mm
Angle of oscillation	±10°
Tires: Size	335/80 R20
Rim	11 x 20
Speed, max.:	Standard High Speed
1st range forward/reverse	6,0 km/h 8,0 km/h
2nd range forward/reverse	20,0 km/h 30,0 km/h



SERVICE FILL CAPACITIES

Engine	10,5 l
Fuel tank	86,0 l
Front axle, total	11,0 l
Rear axle,	
incl. drop-box	12,0 l
Hydraulic tank, incl. hydraulic system	65,0 l



BRAKING 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 application actuates the inching facility, the last third of pedal application applies the central friction brake.

Parking brake: central drum brake, acting upon all four wheels.



HYDRAULIC SYSTEM

Thermostatically controlled oil circuit with integrated cooling system.

Hydraulic control valve: Servo-controlled, double acting control valve three spool system, with primary and secondary pressure valves.

1. Lifting function
2. Tilting function
3. Additional function for hydraulic QC
Unlock, neutral, lock
Preparation for operating hydraulic attachments with this function is available as an option.

Hydraulic oil filter: Combined 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	
Flow	55 l/min
@ engine rpm	2300 r/min
Relief valve pressure	23 MPa



STEERING

Hydrostatic steering. Central articulating-ocillating joint with damping effect.

Steering pump: gear-type pump

Steering cylinder: 1 double-acting steering cylinder

Steering	
Angle of articulation	±40°
Steering pump	
Flow	25 l/min
@ engine rpm	2300 r/min
Relief valve pressure	18,5 MPa



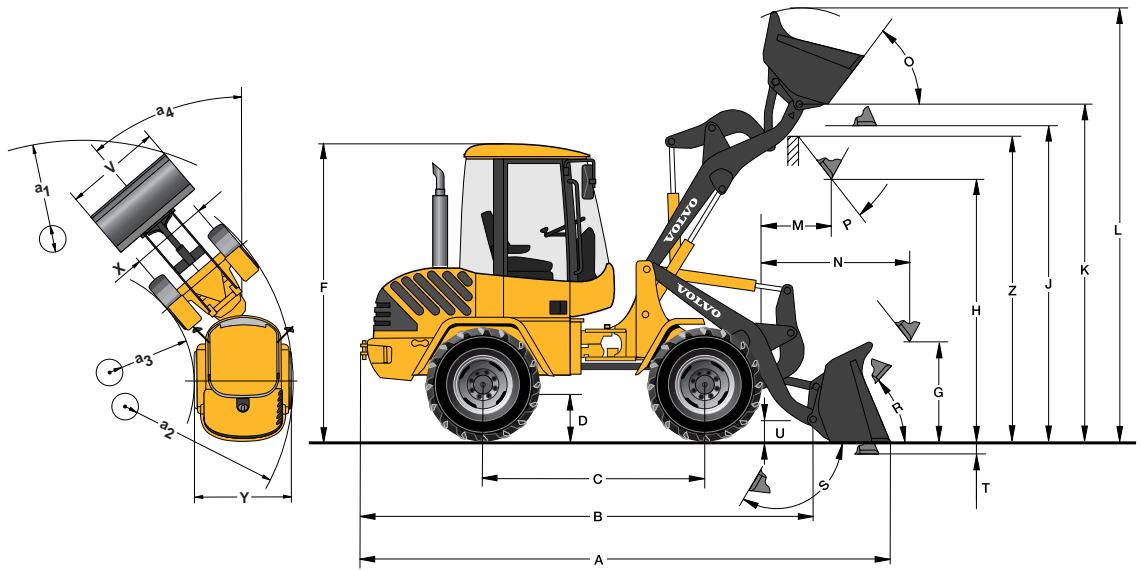
LINKAGE

Linkage system:	Z
Lift cylinders	2
Tilt cylinders	1
Lift time (loaded)	6,5 s
Lowering time (empty)	3,5 s
Dump time	1,5 s
Crowd time	2,0 s







DIMENSIONS • Z-BAR LINKAGE



L30B with Z-bar linkage,
Z-attachment carrier
and 335/80 R20 tires

B	4390	mm
C	2150	mm
D	465	mm
F	2690	mm
G	870	mm
J	3000	mm
K	3200	mm
O	70	°
P	45	°
R	50	°
S	140	°
U	200	mm
X	1436	mm
Y	1758	mm
Z	2900	mm
a ₂	3880	mm
a ₃	2070	mm
a ₄	±40	°



OPERATING DATA • Z-BAR LINKAGE

Data according to bucket type		General Purpose		Light Material		4-in-1	High-Tip
L30B with Z-bar linkage, Z-attachment carrier and 335/80 R20 tires							
Capacity heaped	m ³	0,9	1,0	1,2	1,4	0,8	1,2
Material density	kg/m ³	1800	1600	1300	1100	1800	1100
Static tipping load, straight (ISO / DIS)	kg	3800	3700	3650	3550	3450	3200
Static tipping load, full turn 40° (ISO / DIS)	kg	3350	3300	3250	3150	3050	2850
Hydraulic lifting capacity, max.	kN	46,5	45,5	44,5	44,0	43,5	40,0
Breakout force	kN	55,0	48,0	42,5	42,5	52,0	-
A Total length	mm	5185	5285	5390	5390	5220	5540
L Lift height, max.	mm	4160	4205	4290	4290	4080	4970
V Bucket width	mm	1800	1800	1800	2000	1800	1900
a ₁ Clearance circle	mm	8400	8480	8550	8710	8430	8750
T Digging depth	mm	105	105	105	105	110	105
H Dump height	mm	2520	2450	2370	2370	2470	3635
M Reach at max. height	mm	705	775	845	845	695	915
N Reach, max.	mm	1485	1550	1625	1625	1470	2090
Operating weight	kg	5100	5120	5150	5180	5290	5400

Data with loading fork		without counter-weight	with 330 kg counter-weight	Data with bucket and counterweight 330 kg	
Centre of gravity 500 mm				For all buckets	
Tipping load, full turn (ISO / DIS)	kg	2590	2920	Material density	+200 kg/m ³
Payload according to EN 474-3, 60/80%	kg	1550/2050	1750/2300	Static tipping load, straight (ISO / DIS)	+550 kg
Payload 80%, transport position, 40° full turn	kg	2350	2500	Static tipping load, full turn 40° (ISO / DIS)	+500 kg

STANDARD EQUIPMENT

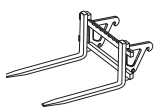
<p>Engine Diesel engine, direct fuel injection Extra fuel filter Cold start aid Dry-type air filter</p> <p>Electrical System Alternator 80 A</p> <p>Lighting: Main head lights (halogen) full/dipped/asymmetrical Working lights (2 front/1 rear) Parking lights Rear lights Brake lights Direction indicators Hazard warning lights Reversing lights Cab lighting</p> <p>Instrumentation & controls: Multi-function lever 12 Volt accessories socket Horn Hazard warning switch Safety start</p> <p>Information System: Analog LED-information for: Fuel level Engine temperature Drive system oil temperature LED-illuminated symbols (colour-coded) for: Direction (forward/reverse) Indicators (left/right) Pre-heater Main beam Differential locks</p>	<p>Boom arm suspension system (option) Loading fork operation (option) LED-illuminated symbols (red) with acoustic signal for: Parking brake Air filter restriction Drive system oil temperature Engine temperature Engine oil pressure Battery charging Return filter Touch pad with symbols and integrated LEDs for: Parking lights Working lights (front/rear) Windscreen wiper (rear) Rotating beacon (option) Boom arm suspension system on/off (option) Locking and activation of Volvo-attachment carrier (option) Activation of multi-function lever for directional change Digital LED display activated by dual function keys for: Entry and retrieval of operating and service information Anti-theft function control</p> <p>Drivetrain Hydrostatic drive Operator-selected 100% differential locks Tires 335/80 R20</p>	<p>Hydraulic System Gear-type pump Control valve three-spool system 3rd hydraulic circuit</p> <p>Service and Maintenance Tool kit Wheel nut wrench</p> <p>Cab, Exterior ROPS/FOPS-cab with flexible mountings Walk-through cab Lockable doors All-round tinted safety glass Windscreen wiper (front/rear) Windscreen washer (front/rear) Sliding window in the left door Door stops External rear view mirrors (right/left)</p> <p>Cab, Interior 4-way adjustable operator's seat Adjustable steering column Seat belt Sunvisor Heater with air-filter and defroster (front/rear) Cab ventilation Preparation for an optional air-conditioner Storage box in the cab</p>	<p>Working Equipment Bucket level indicator Hydraulic quick-change attachment carrier</p> <p>Carriage Body Fenders and mudguards, (front/rear) Lockable engine hood Vertical exhaust Towing device Lifting eyes</p> <p>International Standards for Machines and Production Quality: DIN/ISO 9001 Safety: CE - Criterion 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 insulation: 2000/14/EC German environmental seal «low noise» RAL - UZ 53 (20 km/h version)</p>
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OPTIONAL EQUIPMENT

<p>Engine Pre-heater Pre cleaner air filter (Turbo II) Oilbath air filter Exhaust particle filter</p> <p>Hydraulics Hydraulic couplings for 3rd hydraulic circuit 4th hydraulic circuit Additional pump</p>	<p>Cab Handthrottle Hand control inch valve Airconditioner Radio Working light (1 rear, left) Air suspension operator's seat</p> <p>Working Equipment Boom arm suspension system</p>	<p>Environment Biodegradable hydraulic oil Low-noise kit (High Speed version)</p> <p>Carriage Body Counterweight 330 kg</p>	<p>Safety Anti-theft system Protective guards for: Main head lights Working lights Rear lights Rotating beacon Audible reverse alarm</p>
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ATTACHMENTS

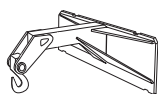
A small selection of the most popular attachments.
Further buckets and attachments available on request.



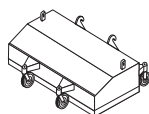
Loading Fork



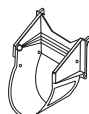
4-in-1 Bucket



Material Handling Arm



Sweeper



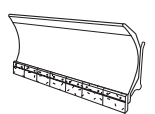
Tree Transplanting Bucket



Side-Tip Bucket



Hay/Manure Fork



Snow Plow

Under our policy of continuous product 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.

VOLVO

Construction Equipment

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