

**VOLVO COMPACT WHEEL LOADERS**

# **L20B, L25B**



**VOLVO**

# 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 give a firm hold when climbing the single step taking you to the cab. You pass the wide doorway and 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 storage area at the back of the operator's seat incorporates a cup holder, while personal things can be stored in the lockable compartment incorporated into the armrest. 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 well-positioned dash-board. It combines the advantage of an undisturbed front view and at the same time allows easy monitoring of the main machine functions because it is within the operator's field of vision. The layout of the dashboard and controls are simple and functional. A clearly arranged combination of indicator 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 hydraulic functions, including the 100% differential locks, are affected via the multi-function lever. The inch brake pedal allows speed adjustment and safe braking.

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 all-round visibility, improving safety at work.



- Ample head room.



- Easy and safe access.



- Comfortable, even after many working hours.



- Lockable compartment underneath the armrest.
- Ideally positioned pedals.



- Well thought-out ergonomic cabin.
- Practical storage space behind the operator's seat.

# 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 its ability to go anywhere with a clearance as low as 8 feet.

Like every Volvo compact wheel loader, the L20B and L25B are experts 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, allows the machine to maneuver on all ground conditions. It offers optimum traction on difficult ground and low ground pressure on delicate surfaces.

A real all-rounder, the L20B-L25B has two hydraulic attachment carrier options, a skid steer attachment bracket which allows the connection of a wide variety of skid steer attachments or the Volvo attachment bracket which allows one of more than 60 different attachments. Using either bracket allows attachment to be fitted to the machine within a few seconds and without the driver having to leave the comfort of the operator's cab.

Regarding performance, these small machines are a real surprise. They boast an outstanding lift capacity, just the right power for efficient handling of the standard pallets. The same is true for the lift height. The loader linkage allows for good reach to the far side of the truck to place pallets, and high dump clearance for loading over highway trucks. Volvo's parallel loader linkage 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 and rapid cycles times.



- Outstanding maneuverability even in difficult situations.



- Long reach for loading, unloading.



- Precision and power.



- 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 Volvos, 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.

Service intervals for long term service have been considerably prolonged on the L20B and L25B, which saves time and money. All main components and service checkpoints are located under the large engine hood and are transverse mounted for easy-access. The tank's fuel filler is wide enough to make refilling possible directly from the fuel can.

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.

The dipstick for the engine oil level is easy to reach, sight glasses on hydraulic oil tank are at eye level, 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 panel 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.

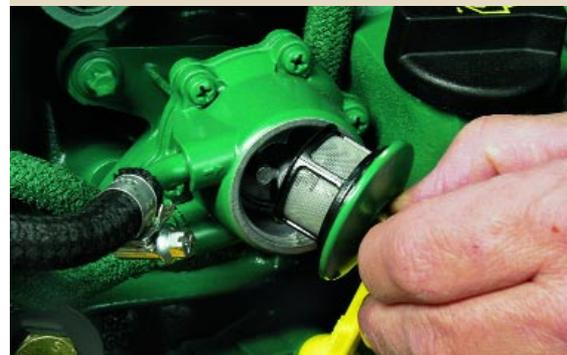
Competent Supplier Support. When purchasing a Volvo you can take advantage of the wide spread Volvo dealer network. Their concern is to give you every support you need to do a good job. They can offer you a comprehensive range of construction equipment and are always ready to help you with advice on 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 elaborate system will help to supply you with the genuine Volvo parts you require, delivered as quickly as possible to keep your downtime to a minimum.



- Easy air filter change.



- Easy fuel filling, even directly from a fuel can without spout or funnel.



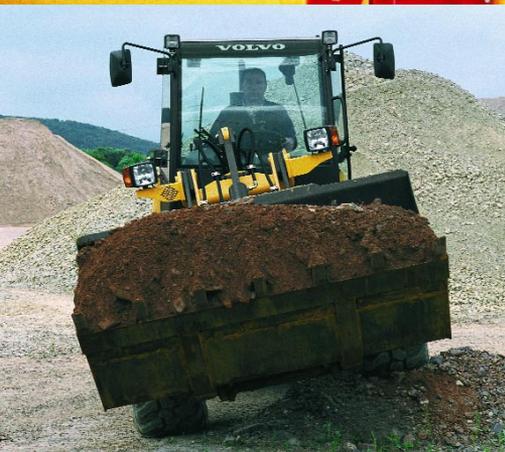
- Easy checking of diesel lift pump and filter.



- Easy access to the hydraulic pumps.



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



- Articulating oscillating joint for optimum maneuverability.

# SPECIFICATIONS

## Engine

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

Air cleaning:

Double air filter with indicator in cab.

	L20B	L25B
<b>Engine</b>	D3DCAE2	D3DCBE2
<b>Gross power @</b>	2300 r/min	2300 r/min
<b>SAE J1995</b>	<b>56 hp</b> - 41 kW	<b>62 hp</b> - 45 kW
<b>Net power @</b>	2300 r/min	2300 r/min
<b>SAE J1349 - DIN ISO 1585</b>	<b>54 hp</b> - 40 kW	<b>60 hp</b> - 44 kW
<b>Max torque @</b>	1700 r/min	1700 r/min
<b>SAE J1995 netto</b>	<b>133 lbf</b> (180 Nm)	<b>140 lbf</b> (190 Nm)
<b>DIN ISO 1585</b>	<b>133 lbf</b> (180 Nm)	<b>140 lbf</b> (190 Nm)
<b>Cubic capacity</b>	<b>189 in<sup>3</sup></b> (3,10 l)	<b>189 in<sup>3</sup></b> (3,10 l)

## Electrical system

	L20B	L25B
<b>Voltage/Battery capacity</b>	12 V - 88 Ah	12 V - 88 Ah
<b>Alternator rating</b>	1120 - 80 W/A	1120 - 80 W/A
<b>Starter motor output</b>	<b>3.0 hp</b> (2,2 kW)	<b>3.0 hp</b> (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
<b>Oscillation at wheel, max.</b>	<b>0'10"</b> (245 mm)	<b>0'10"</b> (245 mm)
<b>Track</b>	<b>4'4"</b> (1320 mm)	<b>4'4"</b> (1320 mm)
<b>Angle of oscillation</b>	±10°	±10°
<b>Tire /Rim size</b>	400/70 R18	400/70 R 18

## Maximum speed

<b>1st range forward/reverse</b>	<b>3 mph</b> (5 km/h)	<b>3 mph</b> (5 km/h)
<b>2nd range forward/reverse</b>	<b>12.5 mph</b> (20 km/h)	<b>12.5 mph</b> (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
<b>Angle of articulation</b>	±38°	±38°

Steering pump:

	L20B	L25B
<b>Flow @ engine r/min</b>	<b>6.6 gpm - 38 r/s</b> (25 l/min - 2300 r/min)	<b>6.6 gpm - 38 r/s</b> (25 l/min - 2300 r/min)
<b>Relief valve pressure</b>	<b>2685 psi</b> (18,5 MPa)	<b>2685 psi</b> (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
<b>Flow @ engine r/min</b>	<b>14.5 gpm</b> (55 l/min - 2300 r/min)	<b>14.5 gpm</b> (55 l/min - 2300 r/min)
<b>Relief valve pressure</b>	<b>2900 psi</b> (20 MPa)	<b>3335 psi</b> (23 MPa)

## Linkage

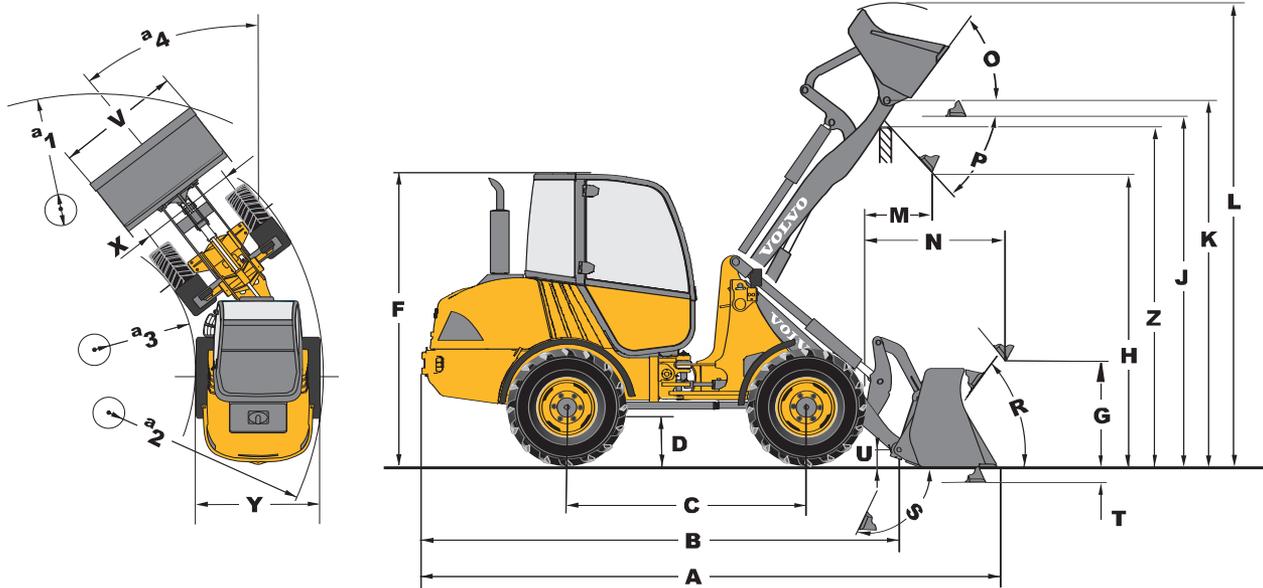
Parallel linkage with high breakout force and parallel lift-arm action.

	L20B	L25B
<b>Lift cylinders / Tilt cylinders</b>	1/1	1/1
<b>Lift time (loaded)</b>	6.0 s	6.0 s
<b>Lowering time (empty)</b>	4.0 s	4.0 s
<b>Dump time</b>	2.0 s	2.0 s
<b>Crowd time</b>	1.5 s	1.5 s

## Capacities

	L20B	L25B
<b>Engine</b>	<b>2.8 US gal</b> (10,5 l)	<b>2.8 US gal</b> (10,5 l)
<b>Fuel tank</b>	<b>15.9 US gal</b> (60,0 l)	<b>15.9 US gal</b> (60,0 l)
<b>Front axle</b>	<b>1.1 US gal</b> (4,1 l)	<b>1.1 US gal</b> (4,1 l)
<b>Rear axle, incl. drop-box</b>	<b>1.5 US gal</b> (5,8 l)	<b>1.5 US gal</b> (5,8 l)
<b>Hydraulic tank, incl. hydraulic system</b>	<b>15.9 US gal</b> (60,0 l)	<b>15.9 US gal</b> (60,0 l)

# SPECIFICATIONS - L20B

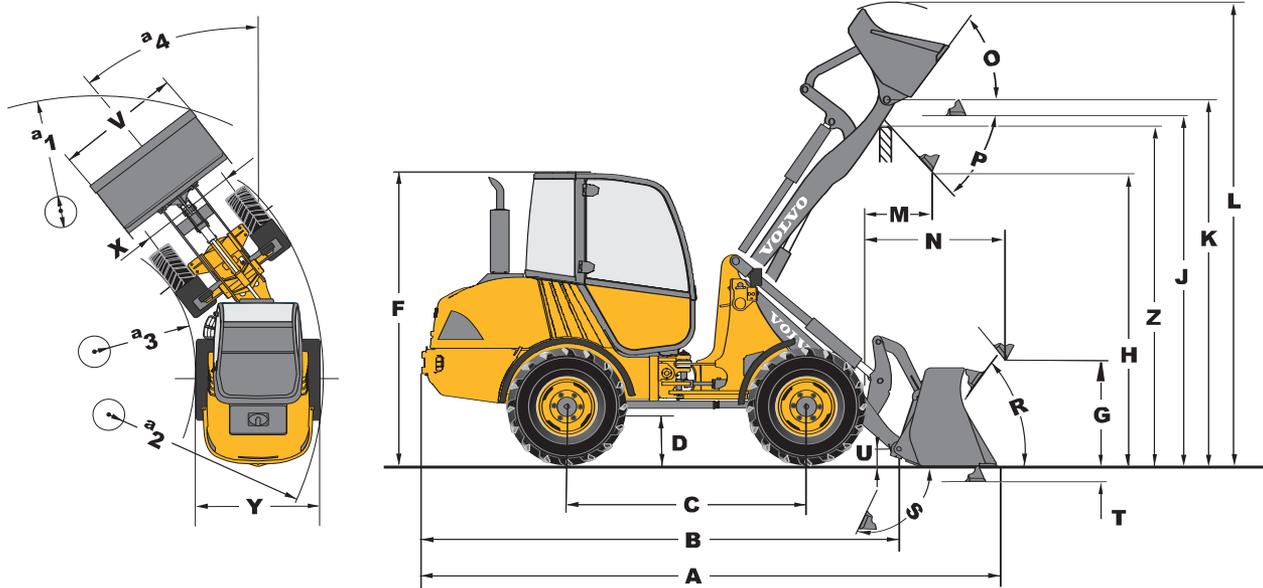


Data according to bucket type		Gen. Purpose without teeth	Light material	
L20B with parallel-linkage, SSL attachment carrier and 400/70 R18 tires				
Capacity heaped	yd <sup>3</sup> (m <sup>3</sup> )	0.85 0,65	1.0 0,8	1.25 0,95
Material density	lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	3540 2100	2865 1700	2360 1400
Static tipping load, straight (ISO / DIS)	lb (kg)	7055 3200	6835 3100	6725 3050
Static tipping load, full turn 40° (ISO / DIS)	lb (kg)	6175 2800	6065 2750	5950 2700
Hydraulic lifting capacity, max.	lbf (kN)	7645 34,0	7420 33,0	7195 32,0
Breakout force	lbf (kN)	6970 31,0	6070 27,0	5395 24,0
A Total length	ft in (mm)	16'8" 5070	16'12" 5170	17'4" 5270
L Lift height, max.	ft in (mm)	13'7" 4135	13'9" 4200	14'1" 4280
V Bucket width	ft in (mm)	5'11" 1800	5'11" 1800	5'11" 1800
a <sub>1</sub> Clearance circle	ft in (mm)	27'6" 8365	27'8" 8420	27'10" 8475
T Digging depth	ft in (mm)	0'3" 70,0	0'3" 70,0	0'3" 70,0
H Dump height	ft in (mm)	8'3" 2510	8'0" 2435	7'9" 2355
M Reach at max. height	ft in (mm)	2'4" 710	2'7" 775	2'9" 835
N Reach, max.	ft in (mm)	5'0" 1530	5'3" 1590	5'5" 1650
Operating weight	lb (kg)	9945 4510	10030 4550	10120 4590

L20B with parallel-linkage, SSL attachment carrier and 400/70 R18 tires	
B	13'11" (4230 mm)
C	6'9" (2050 mm)
D	1'1" (325 mm)
F	8'2" (2475 mm)
G	2'10" (875 mm)
J	9'11" (3030 mm)
K	10'4" (3150 mm)
O	56°
P	45°
R	56°
S	65°
U	0'5" (120 mm)
X	4'4" (1320 mm)
Y	5'8" (1724 mm)
Z	9'8" (2955 mm)
a <sub>2</sub>	12'8" (3870 mm)
a <sub>3</sub>	6'11" (2105 mm)
a <sub>4</sub>	±38°

Data with loading fork		
Centre of gravity 19.69" (500 mm)		
Tipping load, full turn (ISO / DIS)	lb (kg)	4785 (2170)
Payload according to EN 474-3, 60/80%	lb (kg)	2870/3750 (1300/1700)
Payload 80%, transport position, 38° full turn	lb (kg)	4520 (2050)

# SPECIFICATIONS - L25B



Data according to bucket type		Gen. Purpose without teeth		Light material	
					
L25B with parallel-linkage, SSL attachment carrier and 400/70 R18 tires					
Capacity heaped	yd <sup>3</sup> (m <sup>3</sup> )	1.0 (0,85)	1.3 (1,0)	1.6 (1,2)	
Material density	lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	3200 (1900)	3200 (1600)	3200 (1300)	
Static tipping load, straight (ISO / DIS)	lb (kg)	8375 (3800)	8270 (3750)	8155 (3700)	
Static tipping load, full turn 40° (ISO / DIS)	lb (kg)	7495 (3400)	7385 (3350)	7275 (3300)	
Hydraulic lifting capacity, max.	lbf (kN)	9215 (41,0)	9035 (40,2)	8880 (39,5)	
Breakout force	lbf (kN)	8320 (37,0)	7305 (32,5)	6520 (29,0)	
A Total length	ft in (mm)	16'8" (5070)	16'12" (5170)	17'4" (5270)	
L Lift height, max.	ft in (mm)	13'6" (4115)	13'10" (4210)	14'2" (4305)	
V Bucket width	ft in (mm)	5'11" (1800)	5'11" (1800)	5'11" (1800)	
a <sub>1</sub> Clearance circle	ft in (mm)	27'6" (8370)	27'8" (8420)	27'10" (8480)	
T Digging depth	ft in (mm)	0'4" (90)	0'4" (90)	0'4" (90)	
H Dump height	ft in (mm)	8'2" (2490)	7'11" (2420)	7'9" (2350)	
M Reach at max. height	ft in (mm)	2'2" (665)	2'5" (730)	2'8" (805)	
N Reach, max.	ft in (mm)	4'10" (1480)	5'1" (1545)	5'4" (1620)	
Operating weight	lb (kg)	10650 (4830)	10715 (4860)	10825 (4910)	

L25B with parallel-linkage, Z-attachment carrier and 400/70 R18 tires	
B	13'1" (4250 mm)
C	6'9" (2050 mm)
D	1'1" (325 mm)
F	8'2" (2475 mm)
G	2'10" (860 mm)
J	9'10" (3005 mm)
K	10'4" (3150 mm)
O	56°
P	45°
R	56°
S	65°
U	0'6" (145 mm)
X	4'4" (1320 mm)
Y	5'8" (1724 mm)
Z	9'6" (2905 mm)
a <sub>2</sub>	12'8" (3870 mm)
a <sub>3</sub>	6'11" (2105 mm)
a <sub>4</sub>	±38°

Data with loading fork		
Center of gravity 19.69" (500 mm)		
Tipping load, full turn (ISO / DIS)	kg (lb)	5885 (2670)
Payload according to EN 474-3, 60/80%	kg (lb)	3525/4630 (1600/2100)
Payload 80%, transport position, 38° full turn	kg (lb)	5510 (2500)

## STANDARD EQUIPMENT

### Engine

Diesel engine, direct fuel injection  
Fuel-water separator  
Cold start aid  
Dry-type air filter

### Electrical system

L20B: Alternator 80 A  
L25B: Alternator 80 A  
Lighting:  
Main head lights (halogen)  
full/dipped/asymmetrical  
Work lights (rear right)  
Parking lights  
Rear lights  
Brake lights  
Direction indicators  
Hazard warning lights  
Reversing 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 (color-coded) for:  
Differential locks  
Battery charging  
Turn signal (left/right)  
Main beam  
Pre-heater  
Direction (forward/reverse)  
Two travel speeds  
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  
Tires:  
L20B 400/70 R18  
L25B 400/70 R18

### Cab Exterior

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 rearview mirrors (right/left)

### Cab Interior

4-way adjustable operator's seat  
Seat belt  
Sun visor  
Heater with air filter and defroster  
(front/rear)  
Cab ventilation  
Lockable storage box in the cab  
Diesel electric heater (cab)

### Hydraulic system

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

### Working Equipment

Hydraulic quick-change attachment carrier

### Carriage Body

Fenders and mudguards (front/rear)  
Lockable engine hood  
Vertical exhaust  
Towing hook  
Lifting eyes

### 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 89/336/EEC plus supplement  
Environment: DIN/ISO 14001  
Sound regulation: 2000/14/EC  
German environmental seal "low noise"  
RAL - UZ 53

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## OPTIONAL EQUIPMENT (Standard on certain markets)

### Engine equipment

Pre-heater  
Pre-cleaner air filter (Turbo II)  
Oil-bath air filter  
Exhaust particle filter

### Cab

Handthrottle  
Hand control inch valve  
Air-conditioning  
Radio  
Air suspension operator's seat

### Hydraulic system

4th hydraulic circuit  
Additional pump for hi-flow (25 GPM)

### Environment

Initial filling of biodegradable hydraulic oil

### Safety

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



Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from our 170-year engineering heritage. 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.*

# **VOLVO**

## **Construction Equipment**

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