

- ¥ Gross Power:
SAE J1995 45/61 kW/hp
Net Power:
SAE J1349 43/58 kW/hp
- ¥ Operating Weight:
5.1 - 5.2 t
11,243 - 11,464 lb
- ¥ Bucket Capacities:
0.8 - 1.4 m³
1.0 - 1.8 yd³
- ¥ 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.
 - ¥ Excellent fork-lift capacity.

- ¥ Operator-selected 100%
differential lock on both axles
to give optimum traction.
- ¥ Standard hydraulic quick
change attachment bracket:
Various tried-and-tested attachments
for a wide range of applications.
- ¥ Cab designed for comfort:
 - ¥ Electronic Service and
Information System (ESIS).
 - ¥ Multi-function lever.

VOLVO

The L30B in detail

Engine

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

Air cleaning:

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

EngineDeutz BF4L 1011F
Gross power @2300 r/min
SAE J199551 kW **69 hp**

Net power @2300 r/min **38.3 r/s**
SAE J1349 - DIN ISO 158549 kW **69 hp**

Max torque @1900 r/min **32 r/s**
SAE J1995 netto218 Nm **161 lbf ft**
DIN ISO 1585218 Nm **161 lbf ft**

Electrical system

Rated voltage12 V
Battery voltage12 V
Battery capacity88 Ah
Alternator rating1120/80 W/A
Starter motor output2,2 kW **3.0 hp**

Drivetrain

Dual range 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 all loader functions:

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

Differential locks: hydraulically actuated 100% 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 **10"**
Track1436 mm **4'9"**
Angle of oscillation±10°
Tires: Size12.5-20 IND. SG
Rim11 x 20

Maximum speed (Standard)

1st range forward/reverse6 km/h
..... **4 mph**
2nd range forward/reverse20 km/h
..... **12 mph**

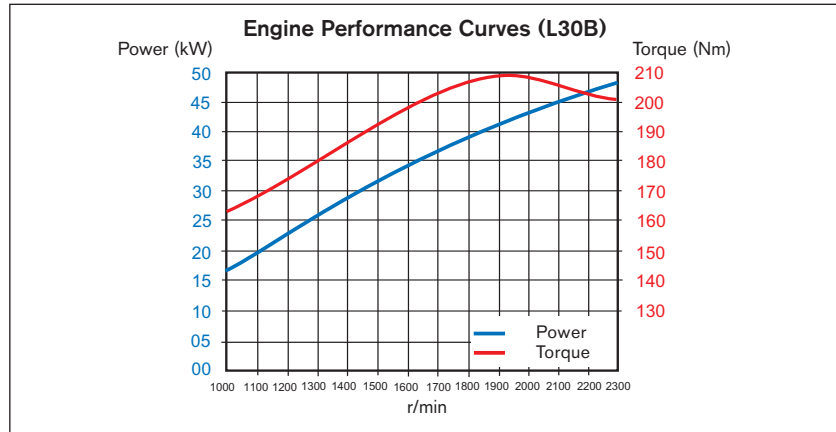
Maximum speed (High Speed)

1st range forward/reverse8 km/h
..... **5 mph**
2nd range forward/reverse30 km/h
..... **19 mph**

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 application actuates the inching facility, the last third of pedal application applies the central friction brake.
Hand operated 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
Angle of articulation±40°
Steering pump
Flow25 l/min **6.6 US gpm**
@ engine rpm2300 r/min **38.3 r/s**
Relief valve pressure ..18,5 MPa **2683 psi**

Cab

Instrumentation: All important information is located off to the right hand side of 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, 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
Flow52 l/min **13.7 US gpm**
@ engine rpm2300 r/min **38.3 r/s**
Relief valve pressure ...23 MPa **3336 psi**

Linkage

Z-bar loader linkage with high breakout force and exceptional parallel lift-arm action.

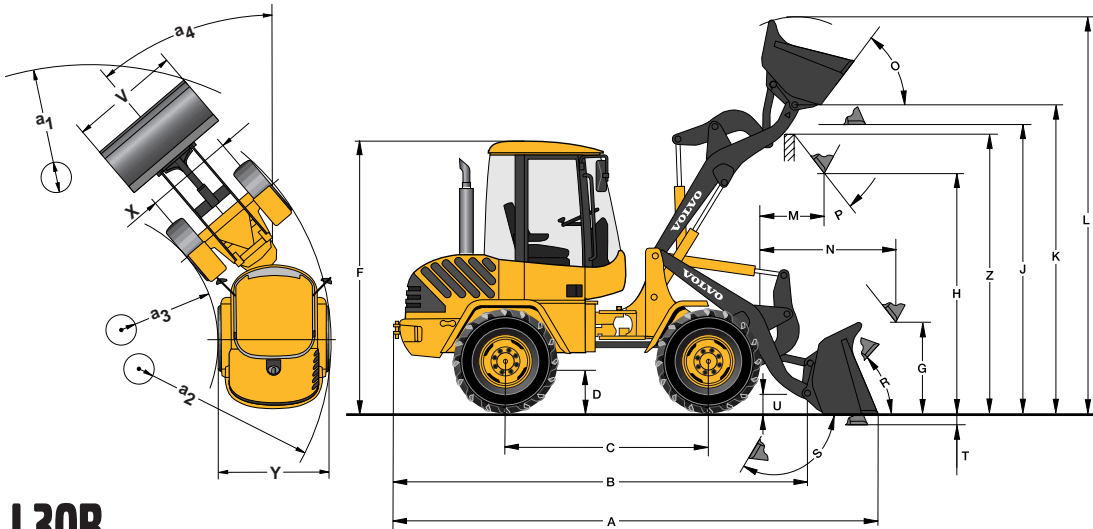
Lift cylinders2
Tilt cylinders1

Lift time (loaded)6,5 sec
Lowering time (empty)3,5 sec
Dump time1,5 sec
Crowd time2,0 sec

Service fill Capacities

Engine10.5 l **2.8 US gal**
Fuel tank86.0 l **22.7 US gal**
Front axle, total11.0 l **2.9 US gal**
Rear axle,
incl. drop-box12.0 l **3.2 US gal**
Hydraulic tank,
incl. hydraulic system65.0 l **17.2 US gal**






Specifications

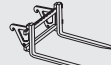


L30B with Z-bar linkage, Z-attachment bracket and 12.5-20 IND. SG tires

B	4365 mm	14' 4"
C	2150 mm	7' 1"
D	440 mm	1' 5"
F	2710 mm	8' 11"
G	900 mm	2' 11"
J	3000 mm	9' 10"
K	3200 mm	10' 6"
O	70 °	
P	45 °	
R	50 °	
S	140 °	
U	200 mm	0' 8"
X	1482 mm	4' 10"
Y	1758 mm	5' 9"
Z	2930 mm	9' 7"
a ₂	3910 mm	12' 10"
a ₃	2030 mm	6' 8"
a ₄	±40 °	

L30B

Data according to bucket type		General Purpose	Light Material	Multi-Purpose	High-Tip		
L30B with Z-bar linkage, Z-attachment carrier and 12.5-20 IND. SG tires		 + 					
Capacity heaped	m ³ yd ³	1.0 1.3	1.1 1.4	1.3 1.7	1.5 2.0	0.9 1.2	1.5 2.0
Material density	kg/m ³ lb/yd ³	1900 3202	1700 2865	1400 2359	1200 2022	1900 3202	1000 1685
Static tipping load, straight (ISO / DIS)	kg lb	4350 9590	4250 9370	4200 9259	4100 9039	4000 8819	3750 8267
Static tipping load, full turn 40° (ISO / DIS)	kg lb	3850 8488	3800 8378	3750 8267	3650 8047	3550 7826	3250 7165
Hydraulic lifting capacity, max.	kN lbf	46.5 10454	45.5 10229	44.5 10004	43.5 9779	43.0 9667	39.0 8768
Breakout force	kN lbf	55.0 12365	48.0 10791	42.5 9554	39.5 8880	48.0 10,971	- --
A Total length	mm ft in	5160 16'11"	5260 17'3"	5365 17'7"	5430 17'10"	5260 17'3"	5615 18'5"
L Lift height, max.	mm ft in	4190 13'9"	4230 13'11"	4320 14'2"	4390 14'5"	4100 13'5"	5130 16'10"
V Bucket width	mm ft in	1900 6'3"	1900 6'3"	1900 6'3"	2000 6'7"	1900 6'3"	2000 6'7"
a ₁ Clearance circle	mm ft in	8490 27'10"	8550 28'1"	8620 28'3"	8750 28'8"	8560 28'1"	8870 29'1"
T Digging depth	mm ft in	75 0'3"	75 0'3"	75 0'3"	75 0'3"	80 0'3"	75 0'3"
H Dump height	mm ft in	2550 8'4"	2475 8'1"	2400 7'10"	2350 7'9"	2450 8'0"	3750 12'4"
M Reach at max. height	mm ft in	680 2'3"	745 2'5"	815 2'8"	855 2'10"	710 2'4"	920 3'0"
N Reach, max.	mm ft in	1455 4'9"	1525 5'0"	1595 5'3"	1635 5'4"	1490 4'11"	2155 7'1"
Operating weight	kg lb	5500 12,125	5520 12,170	5550 12,236	5580 12,302	5710 12,588	5860 12,919

Data with loading fork		
Centre of gravity 500 mm		
Tipping load, full turn (ISO / DIS)	kg lb	2950 6504
Payload according to EN 474-3, 60/80%	kg lb	1750/2300 3858/5071
Payload 80%, transport position, 40° full turn	kg lb	2500 5512

L30B - Possible machine variations	
Linkage/attach. carrier	Standard
Z-bar / Volvo attachment bracket	

STANDARD EQUIPMENT

Engine

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

Electrical system

Alternator 80 A

Lighting:

Main head lights (halogen)
full/dipped/asymmetrical
Working lights (2 front/2 rear, right)
Parking lights
Tail lights
Brake lights
Direction indicators
Hazard warning lights
Reversing lights

Instrumentation & controls:

Multi-function loader lever
12 Volt accessory socket
Horn

Safety start

Analog LED-information for:

Fuel level
Engine temperature
Drive system oil temperature

LED-illuminated symbols (colour-coded) for:

Direction (forward/reverse)
Indicators (left/right)
Engine cold start
Head lamp
Differential locks
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

Drivetrain

Hydrostatic drive
Operator-selected 100% differential locks
Tires 12.5-20 IND. SG

Cab Exterior

Removable ROPS/FOPS-cab with flexible mountings
Walk-through cab
Lockable door
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)

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

Hydraulic system

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

Working Equipment

Bucket level indicator
Hydraulic quick-change attachment carrier

Chasis Body

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

Service and maintenance

Tool kit
Wheel nut wrench

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

OPTIONAL EQUIPMENT

(Standard on certain markets)

Engine equipment

Oil pan pre-heater
Pre cleaner air filter (Turbo II)
Oilbath air filter
Exhaust particle filter

Cab

Handthrottle
Hand control inch valve
Airconditioner
Radio

Air suspension operator's seat

Hydraulic system

Additional hydraulics for 3rd hydraulic circuit
4th hydraulic circuit
Additional pump
3rd hydraulic circuit activated by lever

Environment

Initial filling of biodegradable hydraulic oil

Safety

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

ATTACHMENTS

A small selection of the most popular attachments:

Loading Fork
Multi-Purpose Bucket
Material Handling Arm
Sweeper
Scrap Grapple Bucket
Side-Tip Bucket
High-Tip Bucket
Hay/Manure Fork
Snow Plow

All products are not available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice. The illustrations do not necessarily show the standard version of the machine.

VOLVO

Construction Equipment