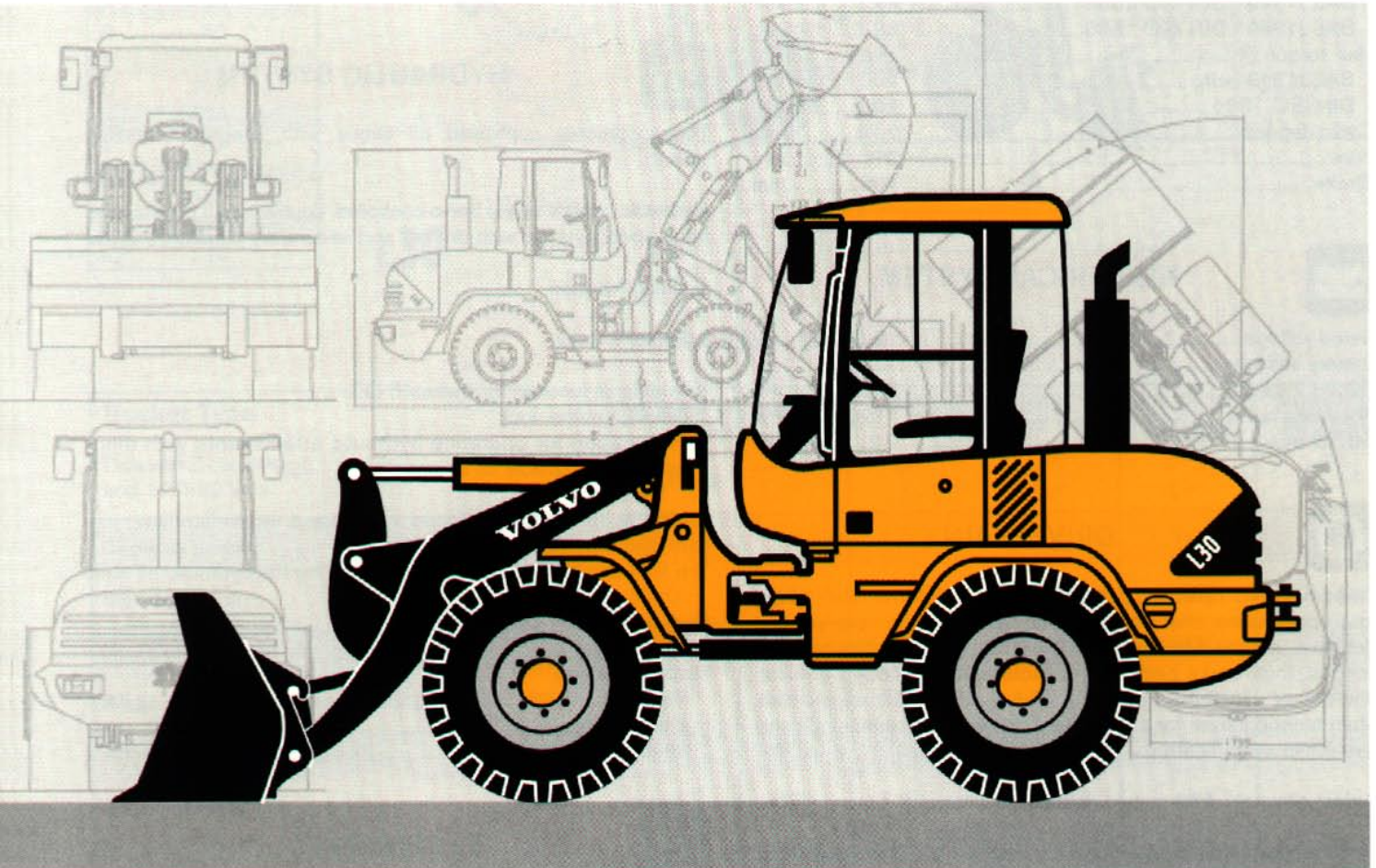


VOLVO WHEEL LOADER

L30



- **Gross Power:**
SAE J1995 44,5/61 kW/hp
Net Power:
SAE J1349 42,5/58 kW/hp
- **Operating Weight:**
4,75 t
- **Bucket Capacities:**
0,8 - 1,4 m³
- **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 coupling:** Various tried-and-tested attachments for a wide range of applications.
- **Purpose designed cab comfort:**
 - Electronic Service and Information System (ESIS).
 - Multi-function lever.

VOLVO



ENGINE

Engine: Deutz 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.....	BF4L 1011FT
Gross power @.....	2300.....r/min
SAE J1995.....	44,5.....kW
SAE J1995.....	61.....hp
Net power @.....	2300.....r/min
SAE J1349 - DIN ISO 1585.....	42,5.....kW
SAE J1349 - DIN ISO 1585.....	58.....hp
Max. torque @.....	1800.....r/min
SAE J1349 netto.....	200.....Nm
DIN ISO 1585.....	200.....Nm
Cubic capacity.....	2,73.....l
Bore.....	91.....mm
Stroke.....	105.....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% 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.....	12.5-20.....
Rim.....	11 x 20.....

Speed, max:	Standard	High Speed
1st range forward/reverse..	8,0.....km/h	9,5.....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.....	60,0.....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.....	52.....l/min
@ engine rpm.....	2300.....r/min
Relief valve pressure.....	21.....MPa



STEERING

Hydrostatic steering. Central articulating 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.....	17.....MPa



LINKAGE

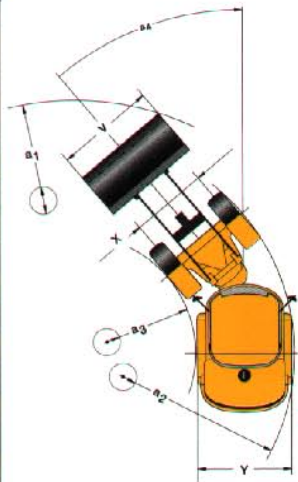
Alternative lifting frames:

Z-bar linkage
2 Lift cylinders
1 Tilt cylinder

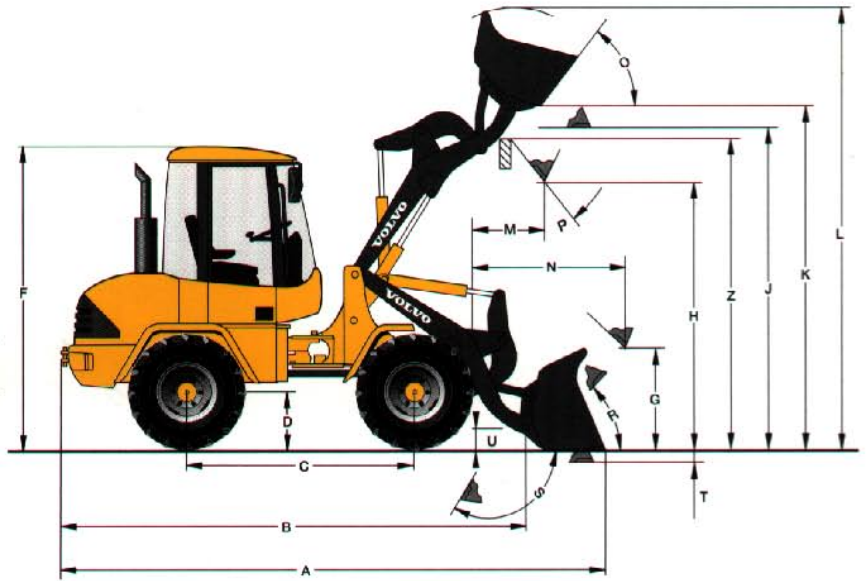
Lift time (loaded).....	6,0.....s
Lowering time (empty).....	3,1.....s
Dump time.....	1,6.....s
Crowd time.....	1,4.....s

DIMENSIONS

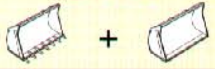



Data	
with Z-bar linkage and 12.5-20 tires.	
B	4375 mm
C	2150 mm
D	470 mm
F	2705 mm
G	900 mm
J	3015 mm
K	3215 mm
O	70 °
P	45 °
R	50 °
S	140 °
U	200 mm
X	1436 mm
Y	1758 mm
Z	2915 mm
a ₂	3880 mm
a ₃	2070 mm
a ₄	±40 °



L30



OPERATING DATA

Bucket Type		General Purpose Bucket		Light Material Bucket		4-in-1 Bucket	High-Tip Bucket
Data with Z-bar linkage and 12.5-20 tires.							
Capacity heaped	m ³	0,8	1,0	1,2	1,4	0,8	1,2
Material density	kg/m ³	1900	1600	1300	1100	1800	1000
Static tipping load, straight (DIN)	kg	3700	3650	3600	3500	3550	3000
Static tipping load, full turn (40° DIN)	kg	3300	3250	3200	3100	2950	2600
Hydraulic lifting capacity, max.	kN	42,0	40,5	39,5	39,0	38,3	33,5
Breakout force	kN	51,5	43,3	38,6	37,0	48,8	--
A Total length	mm	5170	5300	5400	5440	5210	5530
L Lift height, max.	mm	4140	4260	4340	4390	4100	4860
V Bucket width	mm	1800	1800	1800	1950	1800	1900
a ₁ Clearance circle	mm	8400	8480	8550	8710	8430	8720
T Digging depth	mm	90	90	90	90	90	90
H Dump height	mm	2535	2440	2365	2340	2480	3650
M Reach at max. height	mm	690	770	840	870	670	900
N Reach, max.	mm	1470	1550	1620	1650	1450	2060
Operating weight	kg	4750	4760	4760	4780	4910	5070

Loading Fork	Standard version	L30 - Possible machine variations		
		Linkage	Standard	High speed
Centre of gravity 500 mm				
Tipping load, full turn acc. to DIN 24 094	kg	2500		
Payload acc. to EN 474-3, 80%	kg	2000		
Payload acc. to EN 474-3, 60%	kg	1500		
		Z-bar linkage	X	X
		TP-linkage	--	--

VOLVO WHEEL LOADER

L30

A wheel loader of the new

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.



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 ESIS dash board with supporting electronics (Electronic Service and Information System).



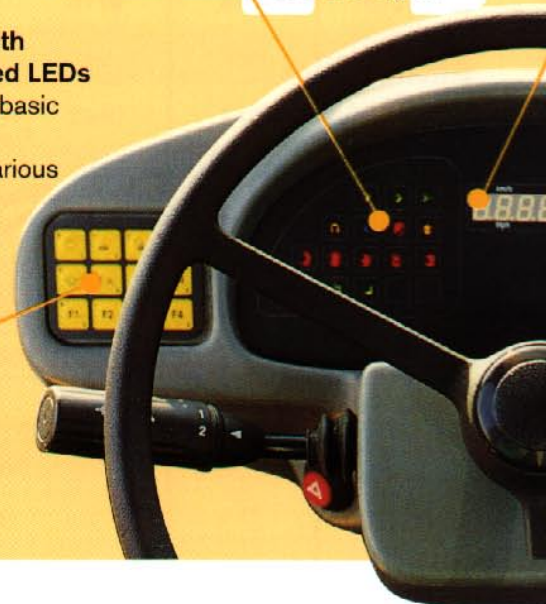
Colour-coded LED-illuminated symbols

- as controls
- as warning symbols combined with acoustic signal

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

Targeted fault-diagnosis via laptop: detailed information for the service engineer resulting in less production downtime.



compact class from VOLVO



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.

VOLVO - 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 loader linkages 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.



VOLVO - trust a great name. It stands for superior quality, safety and top performance.

6-digit LED-display

- Indication of faults
- Indication of operating data

Analog LED-information

- Fuel level
- Engine temperature
- Drive system oil temperature

Multifunction lever for differential locks, directional change and neutral position.



VOLVO WHEEL LOADER

L30

STANDARD EQUIPMENT

Engine

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

Electrical System

Alternator 80 A

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

Instrumentation & controls:

Multi-function lever
12 Volt accessories socket
Horn
Hazard warning switch
Safety start

Electronic Service and Information-System (ESIS):

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
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 TPV -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

Powertrain

Hydrostatic drive
Operator-selected 100% differential locks

Tires 12.5-20

Hydraulic System

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

Service and Maintenance

Tool kit

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)

Cab, Interior

4-way adjustable operator's seat
Adjustable steering column
Seat belt
Sunblind
Heater with air-filter and defroster (front/rear)
Cab ventilation
Preparation for an optional air-conditioner
Storage box in the cab

Working Equipment

Bucket level indicator
Hydraulic quick-change attachment carrier

Carriage Body

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

Achieved International Standards for Machines and Production

General:

CE Certification
(EC-directive 89/392/EEC)
German road traffic regulations

Quality:

DIN/ISO 9001 Certification
Environment:
DIN/ISO 14001 Certification
EMAS Validation
(EC-directive 89/392/EEC)

Sound insulation:

(EC-directive 86/622/EEC II, modification 95/27/EC)

Safety:

Certification (EC-directives:
86/295/EEC ROPS
86/296/EEC FOPS)

OPTIONAL EQUIPMENT

Powertrain

Pre-heater

Hydraulics

Additional hydraulics for
3rd hydraulic circuit
4th hydraulic circuit

Cab

Handthrottle
Hand control inch valve
Airconditioner
Radio

Working Equipment

Boom arm suspension system
Attachment carrier TPV

Service and Maintenance

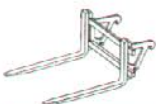
Wheel nut wrench

Safety

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

ATTACHMENTS

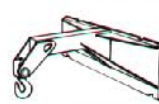
A small selection of the most popular attachments.
Further buckets and attachments available on request.



Loading Fork



4-in-1 Bucket



Hook and Tackle



Sweeper



Tree Transplanting Bucket



Side-Tip Bucket



Hay/Manure Fork



Snow Plow

VOLVO

Volvo Construction
Equipment Group

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.

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