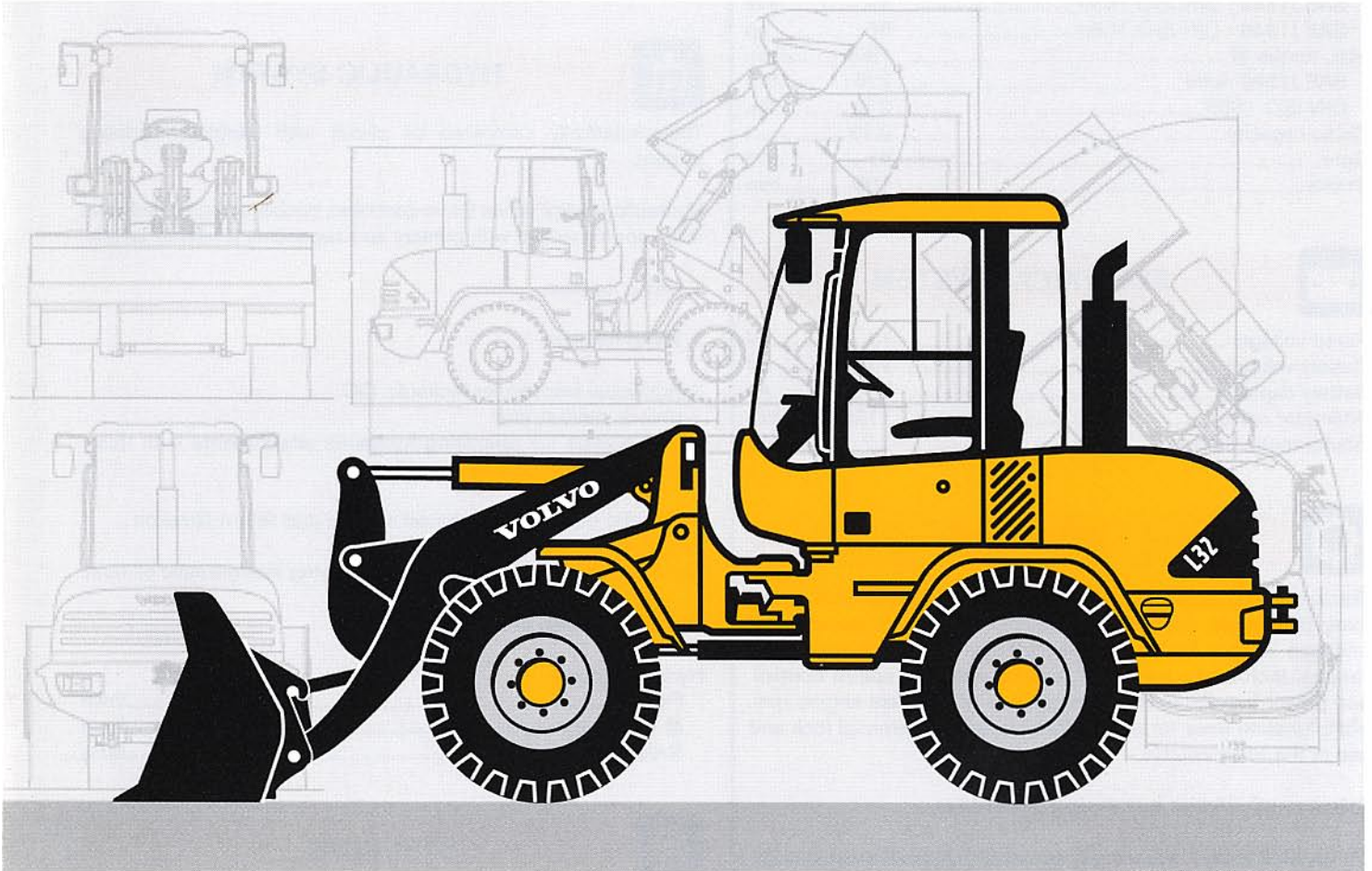


VOLVO WHEEL LOADER

L32



- **Gross Power:**
SAE J1995 51/69 kW/hp
Net Power:
SAE J1349 49/66 kW/hp
- **Operating Weight:**
5,1 t
- **Bucket Capacities:**
0,9 - 1,5 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 1011F
Gross power @.....	2300.....r/min
SAE J1995.....	51.....kW
SAE J1995.....	69.....hp
Net power @.....	2300.....r/min
SAE J1349 - DIN ISO 1585.....	49.....kW
SAE J1349 - DIN ISO 1585.....	66.....hp
Max. torque @.....	1800.....r/min
SAE J1349 netto.....	220.....Nm
DIN ISO 1585.....	220.....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.....	260.....mm
Track.....	1482.....mm
Angle of oscillation.....	±10°.....
Tires: Size.....	365/80 R20.....
Rim.....	11 x 20.....

Speed, max.:	Standard
1st range forward/reverse.....	6,0.....km/h
2nd range forward/reverse.....	20,0.....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.....	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.....	17.....MPa



LINKAGE

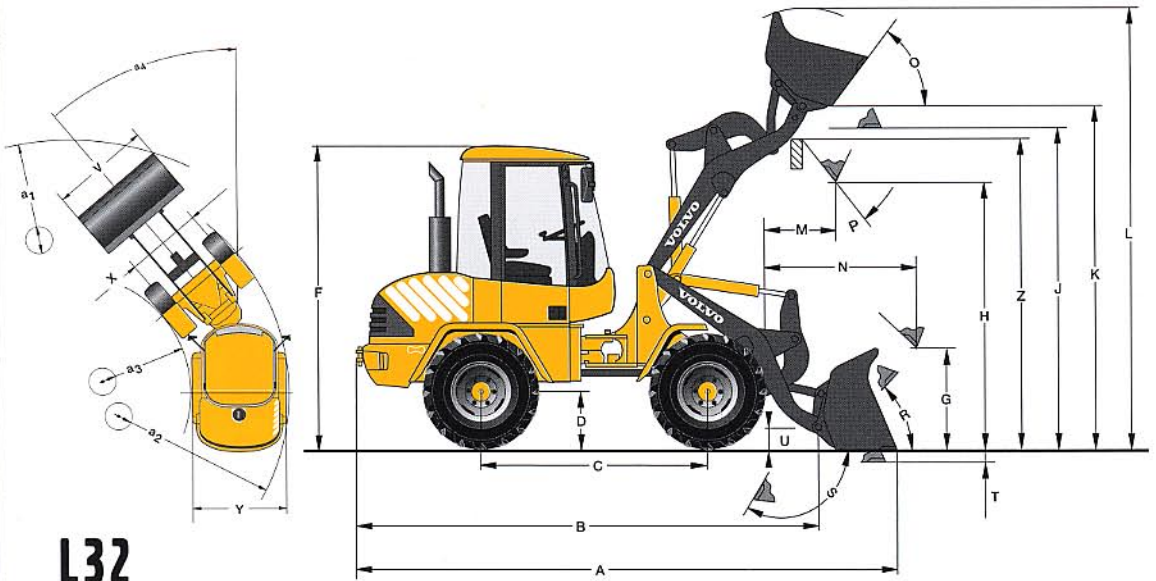
Linkage system:	Z-bar linkage
	2 Lift cylinders
	1 Tilt cylinder

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
365/80 R20 tires.

B	4440 mm
C	2150 mm
D	475 mm
F	2715 mm
G	900 mm
J	3080 mm
K	3280 mm
O	67 °
P	45 °
R	50 °
S	140 °
U	200 mm
X	1482 mm
Y	1835 mm
Z	2970 mm
a ₂	3910 mm
a ₃	2050 mm
a ₄	±40 °



L32

OPERATING DATA

Bucket Type with Z-bar linkage and 365/80 R20 tires.		General Purpose Bucket		Light Material Bucket		4-in-1 Bucket	High-Tip Bucket
							
Capacity heaped	m ³	0,9	1,1	1,3	1,5	0,9	1,5
Material density	kg/m ³	1800	1400	1200	1000	1600	900
Static tipping load, straight (ISO)	kg	3900	3850	3800	3750	3550	3300
Static tipping load, full turn (40° ISO)	kg	3250	3200	3150	3100	2950	2700
Hydraulic lifting capacity, max.	kN	44,0	42,7	41,8	40,7	40,2	34,9
Breakout force	kN	52,0	44,3	39,7	37,8	45,3	-
A Total length	mm	5240	5360	5450	5500	5340	5740
L Lift height, max.	mm	4190	4280	4360	4440	4195	5120
V Bucket width	mm	1900	1900	1900	2050	1900	2000
a ₁ Clearance circle	mm	8540	8610	8670	8840	8600	8960
T Digging depth	mm	110	110	110	110	120	110
H Dump height	mm	2600	2510	2440	2410	2500	3750
M Reach at max. height	mm	720	790	850	890	750	1030
N Reach, max.	mm	1520	1590	1650	1690	1550	2250
Operating weight	kg	5100	5120	5100	5120	5250	5400

Loading Fork

Centre of gravity 500 mm

Tipping load, full turn acc. to ISO 8313

kg

2500

Payload acc. to EN 474-3, 60/80%

kg

1500/2000

L32 - Possible machine variations

Linkage	Standard	High speed
Z-bar linkage	Z	--
TP-linkage	--	--

VOLVO WHEEL LOADER

L32

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).

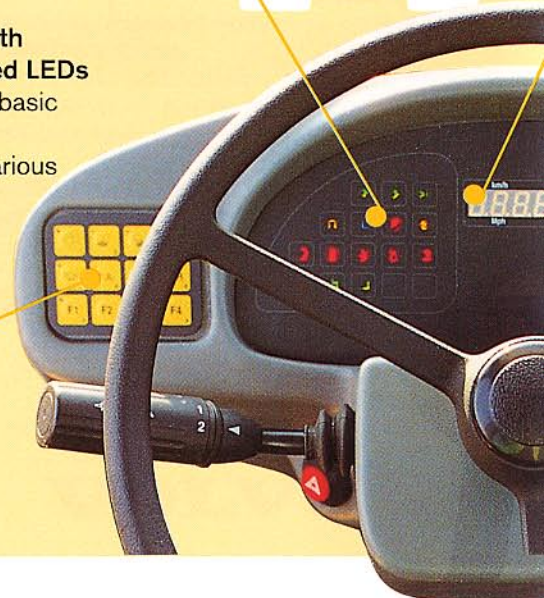
Colour-coded LED-illuminated symbols

- 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



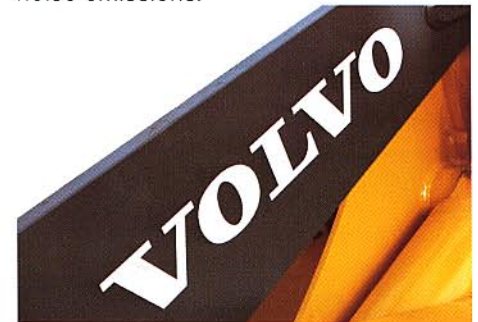
time, because the hydraulic quick change system is standard on all machines.

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

L32

STANDARD EQUIPMENT

<p>Engine Diesel engine, direct fuel injection 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>Electronic Service and Information-System (ESIS): <u>Analog LED-information for:</u> Fuel level Engine temperature Drive system oil temperature <u>LED-illuminated symbols (colour-coded) for:</u> Direction (forward/reverse) Indicators (left/right) Pre-heater</p>	<p>Main beam Differential locks Boom arm suspension system (option) Loading fork operation (option) <u>LED-illuminated symbols (red) with acoustic signal for:</u> Parking brake Air filter restriction Drive system oil temperature Engine temperature Engine oil pressure Battery charging Return filter <u>Touch pad with symbols and integrated LEDs for:</u> 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 <u>Digital LED display activated by dual function keys for:</u> Entry and retrieval of operating and service information Anti-theft function control</p> <p>Powertrain Hydrostatic drive Operator-selected 100% differential locks Tires 365/80 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>Achieved International Standards for Machines and Production <u>General:</u> CE Certification (EC-directive 89/392/EEC) German road traffic regulations <u>Quality:</u> DIN/ISO 9001 Certification <u>Environment:</u> DIN/ISO 14001 Certification EMAS Validation (EC-directive 89/392/EEC) <u>Sound insulation:</u> (EC-directive 86/622/EEC II, modification 95/27/EC) <u>Safety:</u> Certification (EC-directives: 86/295/EEC ROPS 86/296/EEC FOPS)</p>
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OPTIONAL EQUIPMENT

<p>Engine Pre-heater</p> <p>Hydraulics Additional hydraulics for 3rd hydraulic circuit 4th hydraulic circuit Initial filling of biodegradable hydraulic oil</p>	<p>Cab Handthrottle Hand control inch valve Airconditioner Radio</p>	<p>Working Equipment Boom arm suspension system</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

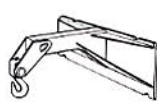
A small selection of the most popular attachments.
Further buckets and attachments available on request.



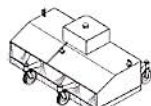
Loading Fork



4-in-1 Bucket



Material Handling Arm



Sweeper



Tree Transplanting Bucket



Side-Tip Bucket



Hay/Manure Fork



Snow Plow

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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