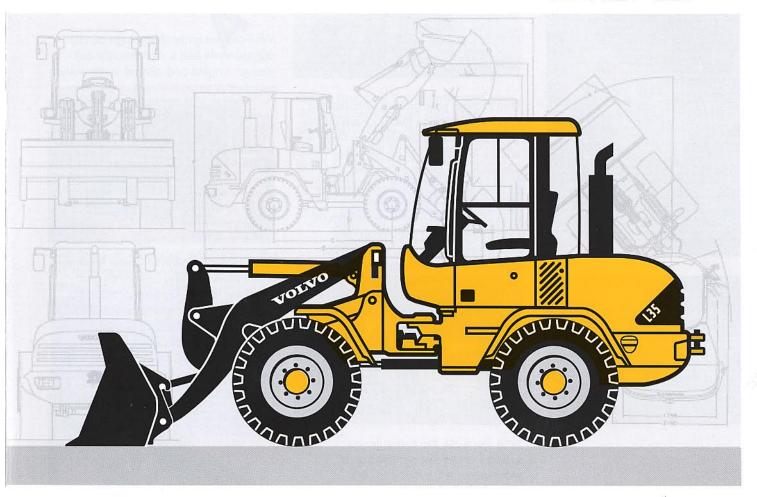
VOLVO WHEEL LOADER

L35



- Gross Power: SAE J1995 54/73 kW/hp Net Power: SAE J1349 52/70 kW/hp
- Operating Weight:
 5,7 6,1 t Z-bar linkage
 5,7 6,1 t TP-linkage
- Bucket Capacities: 0,9 - 1,6 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 loader-linkages with an excellent capacity in pallet handling and bucket applications.
- Operator-selected 100% differential lock on both axles to give optimum traction.
- Standard hydraulic quickchange 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 WHEEL LOADER

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).





Innovative design

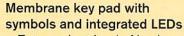
The new Volvo wheel loaders are something to be proud of. Their unmistakable rounded silhouette is pointing the way for a completely new generation of construction equipment. The attractive appearance is combined with function: Rounded rear section and 3-D-panorama cabin with extremely narrow frame parts 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.



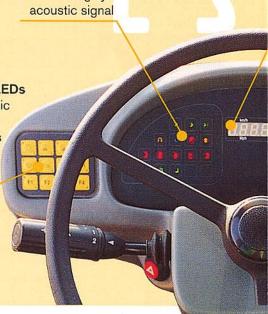
- · as controls
- · as warning symbols combined with acoustic signal



- · 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.





w compact class from Volvo





Non-stop operation



Don't forget your breaks. Otherwise it may easily happen that your 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



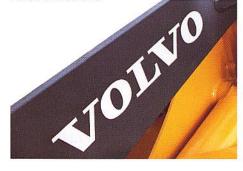
time, because the hydraulic quick change system is standard on all machines.

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



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 @	2500r/min
SAE J1995	54kW
SAE J1995	73hp
Net power @	2500r/min
SAE J1349 - DIN ISO 1585	52kW
SAE J1349 - DIN ISO 1585	70hp
Max. torque @	1800r/min
SAE J1349 netto	220Nm
DIN ISO 1585	220Nm
Cubic capacity	2,73
Bore	91mm
Stroke	105mm



ELECTRICAL SYSTEM

Rated voltage	12V
Battery voltage	12V
Battery capacity	88Ah
Alternator rating	
Starter motor output	



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	270mm
Track	1532mm
Angle of oscillation	±10°
Tires: Size	405/70 R20
Rim	13 x 20
[122] [12] [13] [13] [13] [13] [13] [13] [13] [13	

Speed, max.:	Standard	High Speed
1st range forward/reverse	6,0km/h	8,0km/h
2nd range forward/reverse	20,0km/h	30.0km/h



SERVICE FILL CAPACITIES

Engine	10,5
Fuel tank	86,0
Front axle, total	
Rear axle,	1
incl. drop-box	12,0
Hydraulic tank, incl. hydraulic system	60,0



BRAKING SYSTEM

Service brake: reliable dual braking system, acting upon all four wheels.

- 1. Wear-free, hydrostatic inching brake
- 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
- Additional function for hydraulic QC
 Unlock, neutral, lock
 Preparation for operating hydraulic att

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	70I/min
@ engine rpm	2500r/min
Relief valve pressure	23MPa



STEERING

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

Steering pump: gear-type pump

Steering cylinder: 1 double-acting steering cylinder

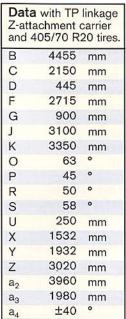
Steering	
Angle of articulation	±40°
Steering pump	
Flow	27I/min
@ engine rpm	2500r/min
Relief valve pressure	18,5MPa

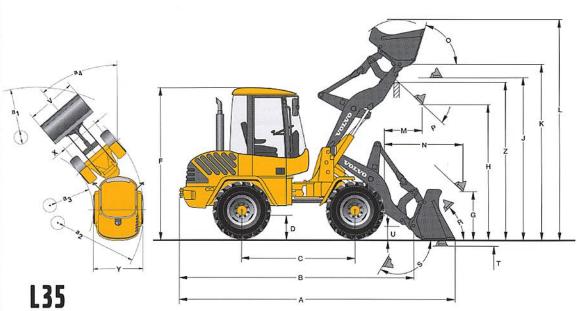


LINKAGE

Linkage system:	Z-bar linkage	TP-linkage
		2 Lift cylinders
		1 Tilt cylinder
Lift time (loaded)	6,0s	6,0s
Lowering time (empty)	3,1s	3,1s
Dump time		
Crowd time		

DIMENSIONS





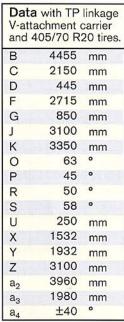
OPERATING DATA

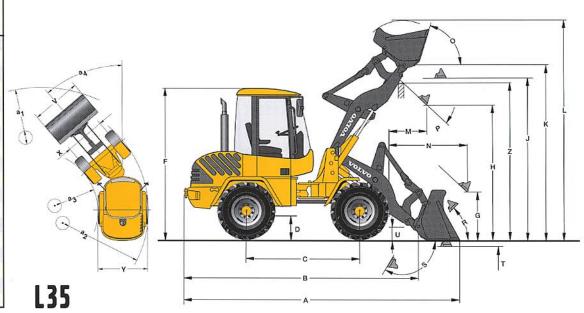
Bucket Type		General Purpose Bucket		Light Material Bucket		4-in-1 Bucket	High-Tip Bucket
with TP linkage, Z-attachment carrier and 405/70 R20 tires.			+ 🔘	0	0		
Capacity heaped	m ³	0,9	1,2	1,4	1,6	0,9	1,5
Material density	kg/m ³	1800	1300	1100	900	1600	900
Static tipping load, straight (ISO)	kg	4150	4000	3950	3900	3800	3450
Static tipping load, full turn (40° ISO)	kg	3300	3150	3100	3050	2980	2700
Hydraulic lifting capacity, max.	kN	52,7	51,2	50,0	49,5	50,4	47,0
Breakout force	kN	62,9	50,7	45,0	42,0	54,7	
A Total length	mm	5220	5380	5485	5550	5320	5800
L Lift height, max.	mm	4210	4330	4440	4495	4200	5240
V Bucket width	mm	2000	2000	2000	2100	2000	2000
a ₁ Clearance circle	mm	8650	8730	8800	8930	8700	9000
T Digging depth	mm	90	90	90	90	90	90
H Dump height	mm	2660	2535	2460	2410	2560	3860
M Reach at max. height	mm	695	785	855	905	715	1135
N Reach, max.	mm	1510	1605	1675	1720	1535	2330
Operating weight	kg	5980	6020	6050	6085	6195	6335

Loading Fork Centre of gravity 500 mm		
Tipping load, full turn acc. to ISO 8313	kg	2680
Payload acc. to EN 474-3, 60/80%	kg	1600/2100

L35 - Possible machine variations					
Linkage	Standard	High speed			
TP Z-attachment carrier	-	TPZ/S			
TP V-attachment carrier	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TPV/S			
Z-bar Z-attachment carrier	Z	Z/S			

DIMENSIONS





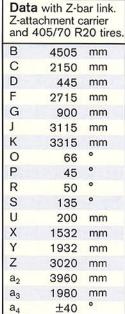
OPERATING DATA

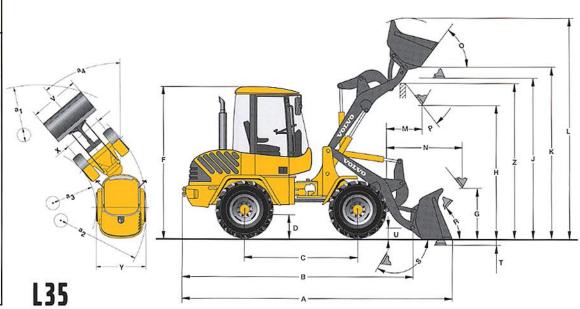
Bucket Type with TP linkage, V-attachment carrier and 405/70 R20 tires.		General Purpose Bucket		Light Material Bucket		4-in-1 Bucket	High-Tip Bucket
		C + C		O O			
Capacity heaped	m ³	0,9	1,2	1,4	1,6	0,9	1,5
Material density	kg/m ³	1800	1200	1000	900	1600	800
Static tipping load, straight (ISO)	kg	4000	3800	3750	3600	3550	3250
Static tipping load, full turn (40° ISO)	kg	3250	3050	3000	2900	2900	2600
Hydraulic lifting capacity, max.	kN	49,5	46,8	45,8	45,3	46,1	42,7
Breakout force	kN	54,5	45,3	40,6	38,2	48,4	5
A Total length	mm	5320	5480	5585	5650	5415	5890
L Lift height, max.	mm	4250	4390	4500	4560	4260	5290
V Bucket width	mm	2000	2000	2000	2100	2000	2000
a ₁ Clearance circle	mm	8700	8800	8860	9000	8760	9100
T Digging depth	mm	90	90	90	90	90	90
H Dump height	mm	2580	2470	2390	2350	2490	3890
M Reach at max. height	mm	755	855	925	970	785	1200
N Reach, max.	mm	1575	1675	1745	1790	1600	2435
Operating weight	kg	6100	6120	6170	6205	6320	6455

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

L35 - Possible machine variations					
Linkage	Standard	High speed			
TP V-attachment carrier	7.7-	TPV/S			
TP Z-attachment carrier	***	TPZ/S			
Z-bar Z-attachment carrier	Z	Z/S			

DIMENSIONS





OPERATING DATA

Bucket Type		General Bud	Purpose cket	Light N	Material cket	4-in-1 Bucket	High-Tip Bucket
with Z-bar linkage, Z-attachment carrier and 405/70 R20 tires.		7	+ 🔘				
Capacity heaped	m ³	1,0	1,2	1,4	1,6	1,0	1,5
Material density	kg/m ³	1800	1400	1200	1000	1600	1000
Static tipping load, straight (ISO)	kg	4250	4150	4070	4000	3900	3700
Static tipping load, full turn (40° ISO)	kg	3600	3500	3450	3400	3250	3050
Hydraulic lifting capacity, max.	kN	55,0	54,0	53,0	52,5	53,0	50,0
Breakout force	kN	55,0	48,0	42,5	39,5	48,0	-
A Total length	mm	5300	5400	5505	5570	5400	5760
L Lift height, max.	mm	4230	4320	4400	4480	4240	5180
V Bucket width	mm	2000	2000	2000	2100	2000	2000
a ₁ Clearance circle	mm	8670	8750	8810	8950	8740	8970
T Digging depth	mm	120	120	120	120	130	120
H Dump height	mm	2640	2560	2480	2440	2540	3800
M Reach at max. height	mm	750	810	880	920	780	1040
N Reach, max.	mm	1570	1630	1700	1740	1600	2260
Operating weight	kg	5700	5740	5750	5785	5910	6050

Loading Fork Centre of gravity 500 mm		
Tipping load, full turn acc. to ISO 8313	kg	2750
Payload acc. to EN 474-3, 60/80%	kg	1650/2200

L35 - Possible machine variations				
Linkage	Standard	High speed		
Z-bar Z-attachment carrier	Z	Z/S		
TP Z-attachment carrier	144	TPZ/S		
TP V-attachment carrier	17.1	TPV/S		

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

Drivetrain

Hydrostatic drive Operator-selected 100% differential locks

Tires 405/70 R20

Hydraulic System

Gear-type pump

Control valve three-spool system

3rd hydraulic circuit

Service and Maintenance

Tool kit

Wheel nut wrench

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

Sunvisor

Heater with air-filter and defroster (front/rear)

Cab ventilation

Preparation for an optional airconditioner

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

Quality:

DIN/ISO 9001 Certification

Safety:

Machine guide-lines 98/37/EEC

CE - Criteron

ROPS ISO 3471

FOPS ISO 3449

Certification (EC-directives: 98/37/EC)

EMV (Elektromagnetic

Compatibility)

89/336/EEC plus supplement

Environment: DIN/ISO 14001 Certification

EMAS Validation

Sound insulation: (EC-directive 86/622/EEC II, modification

95/27/EC)

OPTIONAL EQUIPMENT

Engine

Pre-heater

Hydraulics

Additional hydraulics for 3rd hydraulic circuit 4th hydraulic circuit Initial filling of biodegradable hydraulic oil

Cab

Handthrottle Hand control inch valve Airconditioner Radio

Working Equipment

Boom arm suspension system

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





Material Handling



Sweeper



Bucket





Hay/Manure Fork



Snow



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 neccessarily show the standard version of the machine.

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