

Volvo Compact Wheel Loaders 5.7 t/12,125 lb 74 hp

L30

L30

Tackle a variety of jobs with speed and ease thanks to the powerful and comfortable L30, compact in size for efficient loading cycles in confined areas.



A compact loader with big potential

The versatile L30 operates reliably in tight spaces and uneven terrains. This compact wheel loader boasts fast simultaneous linkage movements and steering, as well as exceptional tractive, breakout and lifting forces, commonly found on larger machines. And the operator experience is second to none, with easy cab access, best-in-class visibility, intuitive controls and exclusive options. It all adds up to productive and more efficient loading cycles.

Fast and maneuverable



- Unique portal axles design: industryleading ground clearance
- Unique electro-hydraulic flow sharing main control valve: fast simultaneous lifting/tilting and hydraulic attachment movements
- Independent hydraulic pumps: simultaneous lifting and steering
- Articulated & oscillating joint, 100% differential locks on both axles: outstanding traction

÷

Versatile

- Compact design: easy operation in confined areas
- High lifting/breakout forces, superior roll-back/dump angles
- 100% parallel movements with forks
- Attachment brackets, with proportional 3rd hydraulic function as standard
- Range of regular & hydraulic attachments

Comfortable



- Easy cab access
- Best in class all-round visibility
- Adjustable suspension seat and right armrest
- Adjustable steering column
- Inch/brake pedal combination



Intuitive control

- Multi-function joystick with integrated 3rd function as standard, optional 4th function
- 5" display navigated via jog wheel
- Exclusive options: automatic lift & tilt with boundary limits, lift & tilt speed limiter...
- Multiple customizable settings

Designed for uptime



- Monitoring of machine conditions
- Long service intervals
- Ground-level access to service points
- Telematics-based services and solutions

Volvo L30 in detail

Engine

Volvo 4-cylinder, common rail, diesel engine compliant to Tier4F environmental regulations.

Air cleaning:

1. Paper filter with indicator in cab

2. Secondary filter

Exhaust after treatment system:

Cooled Exhaust Gas Recirculation (EGR), diesel oxidation catalyst (DOC) and diesel particulate filter (DPF).

Engine	Volvo	D3.3H
Max power at	r/min (r/s)	2,720 (43.3)
SAE J1995 gross	kW (hp)	55.4 (74)
Max. torque at	r/s	25
SAE J1995 gross	Nm (ft lbf)	265 (195)
Economic working range	r/min (r/s)	1,300 - 2,100 (21.7 - 35)
Displacement	l (in³)	3.3 (203)
Bore	mm (in)	94 (3.86)
Stroke	mm (in)	120 (7,323)

Electrical System

Contronic electrical system with central warning information and buzzer, providing clear and an easy-to-read information on the 5" TFT display mounted on the A-pillar. The jog wheel allows easy and self-explaining navigation on the display with main, sub information field, multiple settings, and customized adjustments.

Indicators and activation lights are available for various control and monitoring functions.

An audible warning alarm will sound, and a central warning symbol will flash if abnormal operating values or error messages arise. Gauges are available for coolant temperature and fuel level.

A fuse test port is available in the fuse box, allowing operators to perform initial investigations, reducing diagnostic time.

Voltage	V	12
Battery capacity	Ah	100
Alternator rating	W/A	1,260 / 90
Starter motor output	kW	3

Drivetrain

The hydrostatic transmission allows for speed range change without any tractive power interruption.

Maximum tractive power is available in all speed ranges, regardless of the driving direction.

Single "Inch/brake pedal" for variable machine speed control and easy power transfer to the wheels at constant engine rpm.

Transmissions forward, neutral, reverse and differential locks buttons are all easy to reach on the multifunctional right joystick. This allows excellent ergonomics and greater efficiency in all applications thanks to the single-handed operation of the machine.

Two rigid portal axles provides long durability and best in class ground clearance.

The central articulating-oscillating joint and all wheel drive allows excellent mobility in all ground conditions.

The 100% differential lock on both axles enable low tire wear on hard

The 100% differential lock on both axles enable low tire wear on hard ground while maximizing traction force in soft terrain.

3		
Angle of oscillation	<u>±</u> °	10
Oscillation at wheel, max.	mm (in)	250 (9.8)
Track	mm (in)	1,472 (58)
Travel speed, forward/reverse		
1st gear	km/h (mi/h)	6 / 8 (3.7 / 4.97)
2nd gear	km/h (mi/h)	20 / 30 (12.4 / 18.6)
Low-speed version		
1st gear	km/h (mi/h)	6 (3.7)
2nd gear	km/h (mi/h)	20 (12.4)
High-speed version		
1st gear	km/h (mi/h)	8 (5)
2nd gear	km/h (mi/h)	30 (18.6)

Service Refill

Ground level access, fuel filler and hydraulic oil filler well protected under the rear engine hood.

the rear engine nood.		
Fuel tank	l (gal)	84 (22.2)
Engine oil	l (gal)	11.2 (3)
Engine coolant	l (gal)	11 (2.9)
Hydraulic tank	l (gal)	54 (14.3)
Front axle oil	l (gal)	12.2 (3.2)
Rear axle oil	l (gal)	13.5 (3.6)

Hydraulic system

Working hydraulic system with electro-hydraulic operated control valve. System supply: A gear pump provides flow to the working hydraulic. System control: Double-acting 3-spools electro- hydraulic main control valve.

The lift function has four positions: lift, hold (neutral), lower and float position.

The tilt function has three positions: rollback, hold (neutral) and dump. The third hydraulic function has three positions: unlock attachment, neutral and lock attachment. It can power a hydraulic attachment such as sweeper, 4-in-1 bucket. Individually flow adjustments are made via jog wheel.

An optional independent fourth hydraulic function is available to power hydraulic implements (Hi-Tip bucket, angle sweeper etc...). Individually flow adjustments are made via jog wheel.

Filtration: Full-flow filtration through 10 micron (absolute) filter cartridge in a combined suction-return-filter.

Cooling: Thermostatically controlled oil flow to oil cooler (fast warm-up, optimized cooling). Electronically temperature controlled hydraulic driven cooling fan with fan speed monitoring.

Working pressure max	MPa (bar)	24 (230)
Flow	l/min (gal/min)	57 (15)
at engine speed	r/min (r/s)	2,720 (43.3)
Pilot working pressure	MPa (psi)	2.2 (319)

Linkage

Z-bar linkage providing high breakout force to the bucket and also parallel movement to the fork frame thanks to Volvo's specific kinematics.

Linkage system		Z-bar
Lift cylinders		2
Tilt cylinders		1
Lift time (loaded)	S	6.5
Lowering time (empty)	S	3.5
Dump time	S	1.5

Steering System

Central articulating-oscillating joint with elastic end-stops. Hydrostatic steering powered via a gear pump allowing precise operation even at low engine revolutions. Steering the machine does not influence the working hydraulic speed e. g. when lifting loads. Steering pressure is monitored by a dedicated sensor.

Steering cylinders		1
Working pressure	MPa (psi)	18.5 (2,756)
Maximum flow	l/min (gal/min)	33 (8.85)
Max articulation	<u>+</u> °	40

Brake system

Service brake: an Inching-brake pedal provides hydrostatic wear less braking in the first stage for precise approach; if applied further the central disc brake on the front axle takes over for final braking acting upon all four wheels and machine immobilization.

Parking brake: Mechanically activated central drum brake, located on the rear axle dropbox acting upon all four wheels.

Wheels and tires

Size	405 / 70R18
Coh	

The cab is tested and approved according to ROPS (ISO 3471), FOPS (ISO 3449, Level 2) and ISO 6683 regarding Operator Restraint System. The operator's seat features an adjustable suspension with multiple setting options and a retractable orange seathelt.

options and a retractable orange seatbelt.
Instrumentation: All important information is shown in the 5" TFT display located in the operator's field of vision mounted on the right A-pillar. The jog wheel allows quick access to all main machine function, individually setting option and readout of machine data.

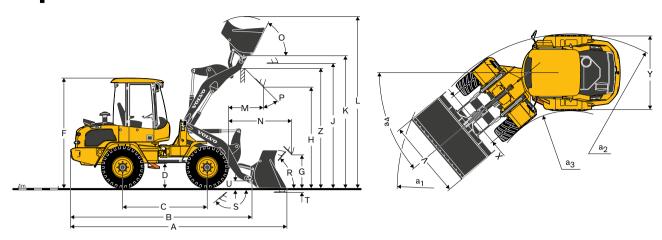
Heater and defroster: Engine coolant heated with filtered fresh air and fan with individually manual speed settings. Defroster vents for all window areas.

Fresh air is filtered through a large elements prior entering, ensuring extremely clean air distribution in the cab.

Sound Level

Sound pressure level at operator's p	osition according to ISO 6396	ô:
L_pA	dB	75
External sound power level accordin Directive 2000/14/EC:	g to ISO 6395 and EU Noise	
L _{WA}	dB	101

Specifications



			L30H Z-BAR			
Description	U	nit	with 405/70 R18 tires			
В	mm	ft in	4,485	14'9"		
С	mm	ft in	2,150	7'1"		
D	mm	ft in	500	1'8"		
F (incl. antenna)	mm	ft in	2,775	9'1"		
G	mm	ft in	930	3'1"		
J	mm	ft in	3,045	10'0"		
K	mm	ft in	3,255	10'8"		
0		0	70			
Р		0	45			
R		0	42			
S		0	139			
U	mm	ft in	190	0'7"		
X	mm	ft in	1,472	4'10"		
Υ	mm	ft in	1,835	6'0"		
Z	mm	ft in	2,950	9'8"		
a ₂	mm	ft in	4,000	13'1"		
a ₃	mm	ft in	2,110	6'11"		
a ₄		0	±	39		

Description	Ui	nit		L30H	Z-BAR	
With Loading Fork Centre of gravity 500 mm / 20 in		ISO 2B		ISO 3B		
Payload according to EN 474-3, 60/80%	kg	lb	1,800 / 2,400	3,965 / 5,290	1,800 / 2,400	3,965 / 5,290

Description	U	nit		L30H Z-BAR						
				GENERAL	PURPOSE		Light mate	rial bucket	4-	in-1
L30H with 405/70 R18 tires, std. boom, Z attachment brack	ĸet		Carried Control							
Option number			CL113	91102	CL113	91103	CL113	91112	CL113	91142
Capacity heaped	m ³	yd ³	1.0	1.3	1.1	1.4	1.5	2.0	0.9	1.2
Material density	kg/m³	lb/yd ³	2,000	3,371	1,800	3,034	1,200	2,023	2,000	3,371
Static tipping load, straight (ISO / DIS)	kg	lb	4,700	10,362	4,650	10,251	4,450	9,811	4,350	9,590
Static tipping load, full turn 40° (ISO / DIS)	kg	lb	4,200	9,259	4,100	9,039	3,950	8,708	3,850	8,488
Hydraulic lifting capacity, max.	kN	lbf	60	13,489	61	13,713	59	13,264	60	13,489
Breakout force	kN	lbf	65	14,613	56	12,589	46	10,229	56	12,477
A Total length	mm	ft in	5,280	17'4"	5,380	17'8"	5,550	18'3"	5,550	18'3"
L Lift height, max.	mm	ft in	4,205	13'10"	4,250	13'11"	4,410	14'6"	4,160	13'8"
V Bucket width	mm	ft in	1,900	6'3"	1,900	6'3"	2,000	6'7"	1,900	6'3"
a ₁ Clearance circle	mm	ft in	8,705	28'7"	8,760	28'9"	8,865	29'1"	8,865	29'1"
T Digging depth	mm	ft in	50	0'2"	50	0'2"	50	0'2"	50	0'2"
H Dump height	mm	ft in	2,570	8'5"	2,495	8'2"	2,370	7'9"	2,475	8'1"
M Reach at max. height	mm	ft in	665	2'2"	730	2'5"	845	2'9"	695	2'3"
N Reach, max.	mm	ft in	1,450	4'9"	1,510	4'11"	1,625	5'4"	1,475	4'10"
Operating weight	kg	lb	5,736	12,646	5,761	12,701	5,836	12,866	5,936	13,087

Equipment

STANDARD EQUIPMENT

Engine

Diesel engine, water cooled

Engine with diesel oxidation catalyst (DOC) and diesel particulate filter (DPF)

Extra fuel filter

Cold start aid

Dry-type air filter with secondary filter

Drivetrain

Hydrostatic drive

Operator-selected 100% differential locks for both axles

Tires 405/70 R18

Electrical System

Alternator 90 A, 1.26 kW

Main head lights (halogen)

full/dipped/asymmetrical

Working lights, halogen (2 front/2 rear)

Parking lights, front halogen/rear LED

Rear lights, LED

Brake lights, LED

Direction indicators, front halogen/rear LED

Hazard warning lights

Reversing lights, LED

Cab lighting, LED

Hydraulic system

Dedicated working hydraulic gear-type pump

Electro-hydraulic controlled main valve three-spool system with flow share function

Proportional 3rd hydraulic circuit with flow control including couplings

Instrumentation & controls

Multi-function single lever electro-hydraulic control with integrated 3rd function

Cruise control

Engine speed locking

12 Volt accessories socket

Hazard warning switch

Digital 5" display for:

Fuel level

Engine temperature

Engine speed

Vehicle speed

Colour-coded symbols for:

Direction (forward/reverse)

1st/2nd gear

Indicators (left/right)

Pre-heater

Main beam Differential locks

Activated machine functions

Symbols (red) in 5" display with acoustic signal for:

Parking brake

Air filter restriction

Engine temperature

Engine oil pressure

Battery charging

Return hydraulic filter

Hydraulic oil temperature

Steering pressure monitoring Jog wheel for navigation within machine menus for:

Work modes with flow settings, Anti-theft function control, operator assist functions, machine data

including illuminated key pad for:

Cab heater (not in use)

Working lights (front/rear)

ESC button for navigation within machine menus

Menu button for direct access

STANDARD EQUIPMENT

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/locks

Orange handrails

External rear view mirrors (right/left)

Cab. Interior

4-way adjustable operator's seat

Mounting brackets for additional equipment on A- and B-pillar right hand

Adjustable steering column

Seat belt, orange

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

Cab ventilation

Lockable storage box in the cab

Working Equipment

Bucket & fork level indicator

Hydraulic quick-change attachment carrier

Carriage Body

Steel fenders front/rear

Lockable engine hood

Towing device

Lifting & tie-down eyes

Service and maintenance

Tool kit

Lockable steel toolbox right hand side

Official approval

Quality: DIN/ISO 9001

Environment: DIN/ISO 14001

Safety: CE compliant acc. Machine Directive 2006/42/EC and

EN474-series

Electromagnetic compatibility (EMC) conforming to European directive

2014/30/EC

Noise emissions: Directive 2000/14/EC

Tipping load / payload: ISO 14397-1

ROPS conforming to ISO 3471 FOPS conforming to ISO 3449 (Level 2)

OPTIONAL EQUIPMENT

Engine

Engine block heater

Fuel pre-heater

Pre cleaner air filter (Turbo II)

Auto Engine Shutdown

Reversible cooling fan

Tropical cooling

Engine start only with buckle on

Drivetrain

Hand inch valve

Driveline shutoff via parking brake

Driveline activated only with buckle on

Engine overspeeding protection

Hydraulic system

4th independent hydraulic circuit with flow control

Hyd oil mineral VG46 HV

Hyd oil mineral VG32 HV

Hyd oil mineral VG68 HV

Hyd oil bio synthetic VG46

Boom suspension system

Safety valves lift and tilt cylinders, electrically controlled

Combination boom suspension system & safety valves

Auxiliary hydraulic's return line (direct to tank or via filter)

Additional pump 42 I/min (11.1 gpm), single acting

Rear hydraulics, double acting

Cab

Airconditioner

Rear view camera incl. rear view mirror inside cab

Radio DAB preparation

Radio DAB, FM/AM, AUX/USB/Bluetooth

Air suspended/heated operator's seat

Cab pre-filter EU2 & EU6

Rearview mirrors inside cab

Enhanced rearview mirrors outside cab

Heated rearview mirrors

Auxiliary cab heater

Emergency hammer

Operator assist function

Loading unit assist function

Advanced tilt & lift limiter

Advanced tilt & lift speed limiter

Wheel/Tires

400/70R18 405/70R18

335/80R20

340/80R20

360/80R20

365/80R20

375/75R20

400/70R20

405/70R20

455/70R20 500/45-22.5

420/65R24

OPTIONAL EQUIPMENT

Electrical

Preparation for magnetic rotating beacon

Magnetic rotating beacon LED

Foldable rotating beacon LED

Audible reverse alarm (STD or "White noise"), Permament or can be switched off

Anti-theft system

Daytime running headlight

LED headlights

LED working lights

Socket 7 pin front (sweeper preparation)

Socket 8 pin attachment control

Socket 7 pin socket rear

Power outlet 12V 20A

Protective equipment

Windshield guard, front

Windshield guard, rear

Belly guards, front/rear

Engine hood protection

Front mudflaps

Protective guards for:

Main head lights

Working lights

Rear lights

Other

SMV warning triangle

Preparation for licence plate, 520x110 mm (1'8"x0'4")

Preparation for multiline licence plate, 340x245 mm (1'1"x0'10")

Trailer hitch bolt & ball joint with electrical connector 13 pin

Central Lubrication unit

Wheel chock

Salt spreader preparation

Long boom 2,250 mm (7'5")

Safety brace for boom

Attachments

General Purpose bucket

Multi-Purpose bucket

Grading bucket

Light Material bucket

High-Tip bucket

Side-Tip bucket

Clamp bucket

Stone Sorting bucket

Material Handling Arm

Forks with tines, tine lenght from 1,000 mm (3'3") up to 1,600 mm (5'3")

Forks with hydraulic tines positioning, with 50 mm (1.97 in) cranked tines Forks with hydraulic tines positioning & side shift, with 50 mm (1.97 in) cranked tines

Log Grapple

Custom-Built Attachments

V O L V O