

V O L V O



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

L30

Volvo Construction Equipment

L30

Count on the proven L30 to deliver superb performance, outstanding reliability, excellent flexibility and short, efficient work cycles.



Flexibility. Speed. Ease of operation.

First launched in 1998, the L30 has established itself as a proven favourite in the industry with a reputation for class-leading ground clearance, powerful performance and the best cab in the industry. With excellent flexibility and compact dimensions, the L30 builds on this proud tradition with a host of upgrades to present customers with a Compact Wheel Loader ready to succeed when working in tight spaces and uneven terrain – designed for uptime and featuring the visibility, comfort and control operators need to achieve optimum results.



Built to perform

- Best ground clearance in its class
- Compact dimensions for tight spaces
- Maximum traction with articulated and oscillating joint which secures tires-to-ground contact
- Differential locks can be engaged to ensure that 100% power is distributed to every wheel, reducing tire slippage and wear
- Powerful linkage
- Superior rollback/dump
- Lighter than the previous generation with no reduction in performance
- Tractive, breakout and lifting forces more commonly found on larger loaders



Responsive controls

- Electro-hydraulic main control valve with flow share function
- Two independent hydraulic pumps
- Smooth, simultaneous boom, steering and attachment movements
- Proportional third/fourth functions for quick attachment connection



Uptime that lasts

- Long service intervals
- Easy in-cab machine monitoring
- Easy service access; easy to service
- Strong, stable machine; robust frame and components
- Prepared for additional hydraulic and electrical options



Industry leading operator environment

- Best-in-class visibility
- Comfortable, modern working environment
- Easy to access, low-noise cab
- 5" screen display
- Intuitive controls

Industry-leading operator environment

- The L30 is designed for operator comfort, starting with its easy cab access, ergonomic arrangement of controls and unrivalled view over the jobsite
- Functions are easily set from the 5" display, including individual flow settings for 3rd and 4th functions, the automatic lift and tilt with boundary limits, and the lift and tilt speed limiter, which are unique options in this size class.

Work in comfort

- The L30 cab combines easy access, low in-cab noise and excellent all-around visibility and intuitive controls together in a comfortable, modern environment
- Complete with a host of modern conveniences including comprehensive storage options and cupholder
- With key functions set from the in-cab display, operators can work with greater confidence, precision and less fatigue throughout the day

Best in class visibility

- Due to the portal axle, the L30 cab and operator seat is positioned higher than competitor machines
- Thanks to this elevated driving position, all-round visibility is significantly improved, and forward visibility is far superior
- When truck loading, visibility is less obstructed by the boom, making it much easier to see where the load is being placed



Designed for uptime

- Long service intervals, easy in-cab machine monitoring, improved serviceability and connected services
- The L30 is built to help minimize maintenance requirements and maximize uptime
- Key machine conditions, including coolant and hydraulic temperatures, engine speed and fan speed, can be checked directly from the in-cab display
- Telematics-based solutions help reduce the risk of unplanned downtime

Highest ground clearance in its class

- Highest ground clearance in its class, coming from Volvo's unique portal axles design
- The L30 is especially suited to uneven ground conditions



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	Brand	D3.3H
Max power at	rpm (rps)	2 720 (43.3)
SAE J1995 gross	kW (hp)	54.6 (73.2)
	hp (net)	74.2
Max. torque at	rpm (rps)	(25)
SAE J1995 gross	Nm (ft lbf)	265 (195)
Economic working range	rpm (rps)	1 300 - 2 100 (21.7 - 35)
Displacement	l (in ³)	3.3 (201)
Bore	mm (in)	94 (3.7)
Stroke	mm (in)	120 (4.72)

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

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

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.

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.

Flow	l/min (gal/min)	57 (15.1)
Working pressure max	MPa (bar)	24 (240)
at engine speed	rpm (rps)	2,720 (45.3)
Pilot working pressure	MPa (psi)	2.2 (319)

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 ground while maximizing traction force in soft terrain.

Angle of oscillation	±°	10
Oscillation at wheel, max.	mm (in)	250 (9.8)
Track	mm (in)	1,472 (58)

Travel speed, forward/reverse

1st gear	km/h (mph)	6 / 8 (3.7 / 4.97)
2nd gear	km/h (mph)	20 / 30 (12.4 / 18.6)

High-speed version

1st gear	km/h (mph)	8 (4.97)
2nd gear	km/h (mph)	30 (18.6)

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 (2,683)
Maximum flow	l/min (gal/min)	33 (8.72)
Max articulation	±°	40

Service Refill

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

Fuel tank	l (gal.)	84 (22.2)
Engine oil	l (gal.)	11.2 (2.96)
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 (3.57)

Cab

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 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

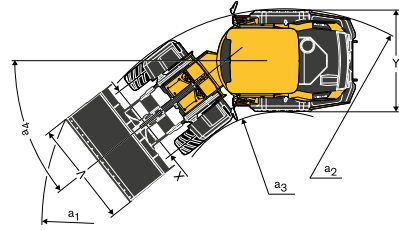
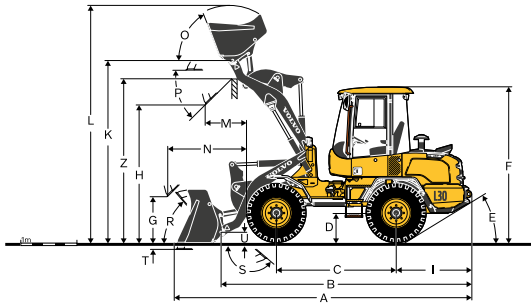
Sound pressure level at operator's position according to ISO 6396:

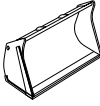
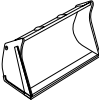
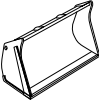
L _{pA}	dB	75
External sound power level according to ISO 6395 and EU Noise Directive 2000/14/EC		
L _{WA}	dB	101

Wheels and Tires

Size	405 / 70R18
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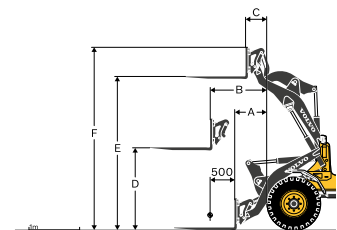
Specifications



Description	Unit		L30 Z-BAR							
L30 with 405/70 R18 tires, std. boom, Z attachment bracket			GENERAL PURPOSE				Light material bucket		4-in-1	
										
Option number			CL11391102	CL11391103	CL11391112	CL11391142				
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/m ³	lb/yd ³	2,000	3,371	1,800	3,034	1,200	2,023	2,000	3,371
Static tipping load, straight (calculated values acc. to ISO 14397-1)	kg	lb	4,500	9,920	4,550	10,031	4,300	9,480	4,200	9,259
Static tipping load, full turn (calculated values acc. to ISO 14397-1)	kg	lb	4,000	8,816	3,960	8,730	3,600	7,937	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	5,351	16'11"	5,415	17'9"	5,583	18'4"	5,410	17'9"
G Dump height at max. reach	mm	ft in	930	3'1"	865	2'10"	750	6'6"	865	2'10"
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

Description	Unit	L30 Z-BAR	
		with 405/70 R18 tires	
B	mm ft in	4,520	14'10"
C	mm ft in	2,150	7'1"
D	mm ft in	500	1'8"
E	°	30	
F (incl. antenna)	mm ft in	2,775	9'1"
I	mm ft in	1,355	4'5"
K	mm ft in	3,255	10'8"
O	°	70	
P	°	45	
R	°	42	
X	mm ft in	1,472	4'10"
Y	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	°	±39	

L30 Z-kinematic, Z-attachment bracket and 365/80 R20 tyres						
Description	Unit		L30 Z-BAR			
With Loading Fork Centre of gravity 500 mm / 20 in			ISO 2B Fork frame 1,345 mm (4'5") width (2812454) Tine lenght 1,000 mm (3'3") (2890382)		ISO 3B Fork frame 1,450 mm (4'9") width (11390572) Tine lenght 1,000 mm (3'3") (2891236)	
Static tipping load, full turn (calculated values acc. to ISO 14397-1)	kg	lb	3,000	6,614	3,000	6,614
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
A	mm	ft in	695	2' 3"	695	2' 3"
B	mm	ft in	1,180	3' 10"	1,180	3' 10"
C	mm	ft in	400	1' 4"	400	1' 4"
D	mm	ft in	1,405	4' 7"	1,405	4' 7"
E	mm	ft in	3,060	10' 0"	3,060	10' 0"
F	mm	ft in	3,640	11' 11"	3,795	12' 5"







Equipment

STANDARD EQUIPMENT
Engine
Diesel engine, liquid 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
Driveline shut off via parking brake
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 mounted on cab roof (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 hydraulic couplings
Instrumentation & controls
Multi-function single lever electro-hydraulic control with integrated 3rd function
Cruise control
Engine speed locking
12 Volt accessories socket
Horn
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

STANDARD EQUIPMENT
Instrumentation & controls
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
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
Cab, interior
4-way adjustable operator's seat
Mounting brackets for additional equipment on A- and B-pillar right hand side
Adjustable steering column
Seat belt 3", orange
Sunvisor
Heater with air-filter and defroster (front/ rear)
Cab ventilation with multiple vents
Lockable storage box in the cab
Loading equipment
Bucket & fork level indicator
Hydraulic quick-change attachment carrier
Carriage Body
Lockable engine hood
Towing device
Lifting & tie-down eyes
Service and Maintenance
Tool kit
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 EQUIPEMENT	
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*	
Engine overspeeding protection & Regeneration support	
Drivetrain	
Hand inch valve	
Driveline activated only with buckle on*	
Distance plates for axles, 28 mm	
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 l/min (11.1 gpm), single acting, total max. flow 100 l/min (26.42 gpm)	
Rear hydraulics, double acting, T-split	
Cab	
Canopy	
Air conditioning system	
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	
Door with sliding window, right hand side	
Windshield laminated	
Emergency hammer	
Operator assist function	
Loading unit assist function*	
Lift & tilt speed limiter*	
Wheel/Tires	
400/70R18	
405/70R18	
335/80R20	
340/80R20	
360/80R20	
365/80R20	
400/70R20	
405/70R20	
455/70R20	
500/45-22.5	
420/65R24	

OPTIONAL EQUIPEMENT	
Electrical	
Preparation for magnetic rotating beacon	
Magnetic rotating beacon LED	
Foldable rotating beacon LED	
Reverse alarm audible "STD", 107 dB(A), switchable or non-switchable	
Reverse alarm audible "White noise", 92 dB(A), switchable or non-switchable	
Anti-theft system*	
Simplified HMI*	
Daytime running headlight	
Full LED light package	
LED headlights	
LED working lights 2,000 lm mounted on cab roof , 2 front/ 2 rear	
Elevated headlights	
Socket 7 pin front, (sweeper preparation)*	
Socket attachment control 8 pin*	
Socket 7 pin rear*	
Socket 13 pin rear*	
Power outlet 12 V / 20 A (below engine hood)	
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 front/ rear, 520x110 mm (20.5x4.33 in), LED	
Preparation for multiline licence plate rear, 340x245 mm (13.4x9.65 in), LED	
Shunting hitch	
Trailer hitch 50 mm (1.97 in) ball joint*	
Trailer hitch 40 mm (1.57 in) bolt joint fixed mounted*	
Trailer hitch 40 mm (1.57 in) bolt joint height adjustable*	
Central Lubrication unit	
Wheel chock	
Lockable steel toolbox right hand side	
Salt spreader preparation	
Custom colour painting (all RAL colours possible other on request, prior verification required)	
Long boom 2,250 mm (7'5")	
Safety brace for boom	
Attachments	
General Purpose bucket with/ without lifting hook	
Multi-Purpose bucket with/ without lifting hook	
Grading bucket	
Light Material bucket	
High-Tip bucket	
Side-Tip bucket	
Clamp bucket	
Stone Sorting bucket	
Material Handling Arm	
Forks frame (1,345 mm (4'5"), 1,450 mm (4'9"), 1,720 mm (5'8") width) 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	
Hay / manure fork	
Custom-Built Attachments	

*Aftermarket option (AMO) including installation instruction available

V O L V O