

V O L V O



Volvo Compact Wheel Loaders 5.7 t 75 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" touchscreen 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 EU Stage V 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	2 720
SAE J1995 gross	kW	55.4
	hp (net)	75.3
SAE J1995 gross	Nm	265
Economic working range	rpm	1 300 - 2 100
Displacement	l	3.3
Bore	mm	94
Stroke	mm	120

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	57
Working pressure max	MPa	24
at engine speed	rpm	2 720
Pilot working pressure	MPa	2.2

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	250
Track	mm	1 482

Travel speed, forward/reverse

1st gear	km/h	6 / 8
2nd gear	km/h	20 / 30

Low-speed version

1st gear	km/h	6
2nd gear	km/h	20

High-speed version

1st gear	km/h	8
2nd gear	km/h	30

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	18.5
Maximum flow	l/min	33
Max articulation	±°	40

Service Refill

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

Fuel tank	l	84
Engine oil	l	11.2
Engine coolant	l	11
Hydraulic tank	l	54
Front axle oil	l	12.2
Rear axle oil	l	13.5

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.

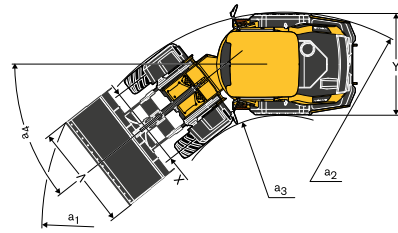
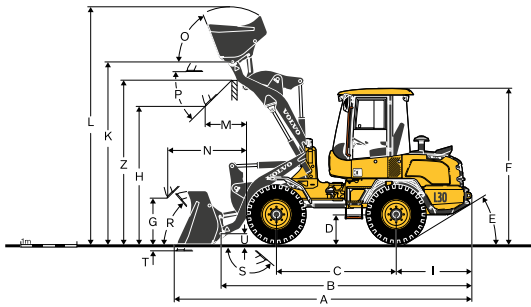
Sound Level

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		365 / 80 R20
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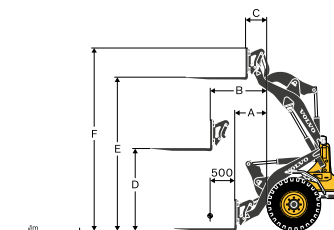
Specifications



Description	Unit	L30 Z-BAR			
L30 with 365/80 R20 tires, std. boom, Z attachment bracket		GENERAL PURPOSE		Light material bucket	4-in-1
					
Option number		CL11391102	CL11391103	CL11391112	CL11391142
Capacity heaped	m ³	1	1.1	1.5	0.9
Material density	kg/m ³	2 000	1 800	1 200	2 000
Static tipping load, straight (calculated values acc. to ISO 14397-1)	kg	4 500	4 550	4 300	4 200
Static tipping load, full turn (calculated values acc. to ISO 14397-1)	kg	4 000	3 960	3 600	3 600
Hydraulic lifting capacity, max.	kN	60	61	59	60
Breakout force	kN	64.5	56	45.5	55.5
A Total length	mm	5 315	5 415	5 583	5 410
G Dump height at max. reach	mm	930	865	750	865
L Lift height, max.	mm	4 215	4 260	4 420	4 170
V Bucket width	mm	1 900	1 900	2 000	1 900
a ₁ Clearance circle	mm	8 705	8 760	8 865	8 865
T Digging depth	mm	50	50	50	50
H Dump height	mm	2 580	2 505	2 380	2 485
M Reach at max. height	mm	675	740	855	705
N Reach, max.	mm	1 460	1 520	1 635	1 485
Operating weight	kg	5 600	5 625	5 700	5 800

Description	Unit	L30 Z-BAR with 365/80 R20 tires
B	mm	4 520
C	mm	2 150
D	mm	500
E	°	30
F (incl. antenna)	mm	2 820
I	mm	1 355
K	mm	3 255
O	°	70
P	°	45
R	°	42
X	mm	1 482
Y	mm	1 835
Z	mm	2 960
a ₂	mm	4 000
a ₃	mm	2 110
a ₄	°	±40

L30 Z-kinematic, Z-attachment bracket and 365/80 R20 tires			
Description	Unit	L30 Z-BAR	
With Loading Fork Centre of gravity 500 mm		ISO 2B Fork frame 1 345 mm width (2812454) Tine lenght 1 000 mm (2890382)	ISO 3B Fork frame 1 450 mm width (11390572) Tine lenght 1 000 mm (2891236)
Static tipping load, full turn (calculated values acc. to ISO 14397-1)	kg	3 000	3 000
Payload according to EN 474-3, 60/80%	kg	1 800 / 2 400	1 800 / 2 400
A	mm	695	
B	mm	1 180	
C	mm	400	
D	mm	1 405	
E	mm	3 060	
F	mm	3 640	3 795



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 365/80 R20
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

STANDARD EQUIPMENT
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
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 side
Adjustable steering column
Seat belt, orange
Sunvisor
Heater with air-filter and defroster (front/ rear)
Cab ventilation with multiple vents
Lockable storage box in the cab

STANDARD EQUIPMENT
Working 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)

Equipment

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*
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, single acting, total max. flow 100 l/min
Rear hydraulics, double acting, T-split

OPTIONAL EQUIPMENT
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
Seat belt 3" orange
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

Not all products are available in all markets. Under our policy of continuous 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.

OPTIONAL EQUIPMENT
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
Reverse alarm visual
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

OPTIONAL EQUIPMENT
Other
SMV warning triangle
Preparation for licence plate front/ rear, 520x110 mm, LED
Preparation for multiline licence plate rear, 340x245 mm, LED
Shunting hitch
Trailer hitch 50 mm ball joint*
Trailer hitch 40 mm bolt joint fixed mounted*
Trailer hitch 40 mm bolt joint height adjustable*
Central Lubrication unit
Wheel chock
Lockable steel toolbox right hand side
Salt spreader preparation
Long boom 2 250 mm
Custom colour painting (all RAL colours possible other on request, prior verification required)
Safety brace for boom
Attachment bracket SSL
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, 1 450 mm, 1 720mm width) with tines, tine lenght from 1 000 mm up to 1 600 mm
Forks with hydraulic tines positioning, with 50 mm cranked tines
Forks with hydraulic tines positioning & side shift, with 50 mm cranked tines
Hay / manure fork
Custom-Built Attachments

*Aftermarket option (AMO) including installation instruction available

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