

Volvo Compact Wheel Loaders 5.5-6.1 t 75 hp

L30G

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Ultimate performance



Fast cycle times

- Articulated oscillating joint and 100% different locks secure outstanding traction
- Portal axles design provides industryleading ground clearance
- Independent hydraulic pumps enable simultaneous lifting and steering with no impact on boom speed
- Z-bar delivers high-breakout force and excellent parallel movement for bucket and forks applications



Versatility

- Compact design minimizes transit time
- Volvo attachments brackets: efficient attachment changes
- Range of matched Volvo buckets, forks, grapples and material handling arms



Easy and safe operation

- All-round visibility
- Adjustable steering column
- Single inching braking pedal
- FOPS/ROPS certified cab



Enhanced uptime

- 100 hours lift frame greasing interval
- Easily accessed service points
- Genuine Volvo Parts: retain Volvo quality
- Control service costs with a Customer Support Agreement

L30G in detail

Engine

Volvo 4-cylinder, common rail, diesel engine compliant to EU Stage V environmental regulations.

Maximun engine incline is 30 degrees in all directions.

Air cleaning:
1. Paper filter with indicator in cab
2. Safety 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	2 600
SAE J1995 gross	kW	55.4
	hp	75
Max. torque at	r/min	1 500
SAE J1995 gross	Nm	265
Economic working range	r/min	1 300 - 2 100
Displacement	1	3.3
Bore	mm	98
Stroke	mm	120

Electrical System

Contronic electrical system with central warning light and buzzer, providing clear and easy to read information to the operator.

A keypad allows easy navigation on the central LCD display with main and

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

An audible warning alarm will sound and a central warning indicator will flashes 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 invstigations, reducing diagnostic time.

Voltage	V	12
Batteries	V	1
Battery capacity	Ah	100
Alternator rating	W/A	1260/90
Starter motor output	kW	3

Drivetrain

The hydrostatic transmission allows for speed range change without any

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

"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.

3		
Angle of oscillation	±°	10
Oscillation at wheel, max.	mm	250
Track	mm	1 482
Travel speed, forward/reverse		
1st gear	km/h	6
2nd gear	km/h	20
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
Tires	-	
Size		365/80 R20

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 wearless braking in the first stage for precise approach; if applied further the central disk brake takes over for final braking and machine immobilization. **Parking brake:** Mechanically activated central drum brake, located on the rear axle dropbox and acting upon all four wheels.

Steering System

Central articulating-ocillating joint with Elastical end-stops. Hydrostatic steering powered via a dedicated 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 cylinders		1
Working pressure	MPa	19
Maximum flow	l/min	33.5
Max articulation	±°	40

Cab

The cab is tested and approved according to ROPS (ISO 3471, SAE J1040) and FOPS (ISO 3449).

The cab is compliant with ISO 6055 requirements regarding Operator overhead protection - Industrial trucks and SAE J386 regarding Operator Restraint System.

The operator's seat features an adjustable suspension and a retractable seatbelt.

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

Several air vents enables fast de-misting and defrosting.
The contronic monitoring system provides all important information in a central position and all machine controls are located in the operator's field

Sound Level

Sound pressure level in cab according to ISO 6	6396:	
L _{pA}	dB	75
External sound level according to ISO 6395 at 2000/14/EC:	nd EU Noise Directive	
Lwa	dВ	101

Service Refill

Ground level access, fuel filler and hydraulic oil filler well protected under

the real engine nood.		
Fuel tank	1	84
Engine oil	1	11.2
Engine coolant	1	11
Hydraulic tank	1	54
Front axle oil	1	12.2
Rear axle oil	1	13.5

Hydraulic system

Working hydraulic system with pilot operated control valves. **System supply:** A gear pump provides flow to the working hydraulic. **System control:** Double-acting 3-spools 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.

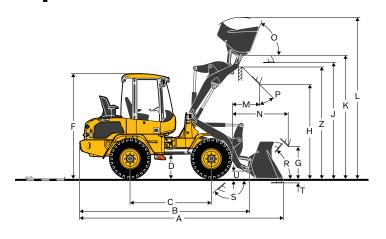
The third hydraulic function has three positions: unlock attachment, neutral and lock attachment. It can power a hydraulic attachment such as sweeper, 4-in-1 bucket. A fourth hydraulic funtions is available as options to power hydraulic implements (Hi-Tip bucket, angle sweeper etc...)

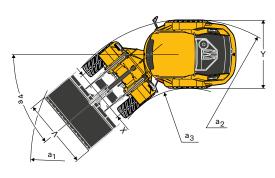
Filtration:
Full-flow filtration through 10 micron (absolute) filter cartridge in a combined suction-return-filter.

Thermostatically controlled oil flow to oil cooler (fast warm-up, optimized cooling).

Working pressure max	MPa	23
Flow	l/min	57
at engine speed	r/min	2 600

Specifications





Description	Unit	L30G Z-BAR
Description	Onit	with 365/80 R20 tires
В	mm	4 480
С	mm	2 150
D	mm	600
F	mm	2 740
G	mm	900
J	mm	3 060
K	mm	3 260
0	۰	70
P	o	45
R	۰	50
S	o	140
U	mm	200
X	mm	1 482
Υ	mm	1 835
Z	mm	2 960
a ₂	mm	3 900
a ₃	mm	2 030
a ₄	0	±40

Description	Unit	L30G Z-BAR
With Loading Fork Centre of gravity 500mm		
Tipping load, full turn (ISO / DIS)	kg	3 000
Payload according to EN 474-3, 60/80%	kg	1800/2400
Payload 80%, transport position, 40 ° full turn	kg	2 500

Description	ription Unit L30G Z-BAR		Z-BAR		
		GENERAL	PURPOSE	Light material bucket	4-in-1
with 365/80 R20 tires		John William			
Capacity heaped	m³	1.0	1.1	1.5	0.9
Material density	kg/m³	1900	1 700	1000	1900
Static tipping load, straight (ISO / DIS)	kg	4 350	4 250	4 050	4 000
Static tipping load, full turn 40° (ISO / DIS)	kg	3 850	3 800	3 600	3 550
Hydraulic lifting capacity, max.	kN	57	55.5	54	53
Breakout force	kN	61	53	44	53
A Total length	mm	5 280	5 380	5 550	5 380
L Lift height, max.	mm	4 220	4 260	4 420	4 135
V Bucket width	mm	1900	1900	2 000	1900
a ₁ Clearance circle	mm	8 490	8 550	8 730	8 560
T Digging depth	mm	50	50	50	55
H Dump height	mm	2 580	2 505	2 385	2 480
M Reach at max. height	mm	680	745	860	710
N Reach, max.	mm	1 455	1 525	1 640	1 490
Operating weight	kg	5 500	5 520	5 600	5 710

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

Drivetrain

Hydrostatic drive

Operator-selected 100% differential locks

Tires 365/80 R20

Electrical System

Alternator 90 A

Main head lights (halogen)

full/dipped/asymmetrical

Working lights (2 front/1 rear, right)

Parking lights

Rear lights

Brake lights

Direction indicators

Hazard warning lights

Reversing lights

Cab lighting

Hydraulic system

Gear-type pump

Control valve three-spool system

3rd hydraulic circuit

Instrumentation & controls

Multi-function lever

12 Volt accessories socket

Horn

Hazard warning switch

Safety start

Analog LED-information for:

Fuel level

Engine temperature

LED-illuminated symbols (colour-coded) for:

Direction (forward/reverse)

2nd gear

Indicators (left/right)

Pre-heater

Main beam

Differential locks

LED-illuminated symbols (red) with acoustic signal for:

Parking brake

Air filter restriction

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

Boom suspension system

Locking and activation of Volvo attachment carrier (TPV)

Activation of directional change on joystick

Digital LED display activated by dual function keys for:

Entry and retrieval of operating

Information

Anti-theft function control

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

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 air-conditioner

Storage box in the cab

Working Equipment

Bucket level indicator

Hydraulic quick-change attachment carrier

Carriage Body

Fenders front/rear

Lockable engine hood

Towing device

Lifting eyes

Service and maintenance

Tool kit

Official approval

Machine conforming to European directive 2006/42/EC

Electromagnetic compatibility (EMC) conforming to European directive 2014/30/EC

Noise emissions in the environment conforming to directive 2000/14/EC $\,$

Tipping load and payload conforming to ISO 14397-1

ROPS conforming to ISO 3471

FOPS conforming to ISO 3449

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Engine	Electrical
Engine block heater	One additional working light (rear left)
Fuel pre-heater	Magnetic rotating beacon
Pre cleaner air filter (Turbo II)	Foldable rotating beacon
Auto Engine Shutdown	Audible reverse alarm
Reversible cooling fan	Anti-theft system
Tropical cooling	Daytime running headlight
Drivetrain	LED working lights
Hand inch valve	Power outlet 12V 20A
Driveline shutoff	Protective equipment
Engine overspeeding protection	Windshield guard, front
Hydraulic system	Windshield guard, rear
Hydraulic coupler for 3rd hydraulic circuit	Belly guards, front/rear
4th hydraulic circuit	Engine hood protection
Flow share function	Protective guards for:
Joystick with integrated 3rd function	Main head lights
Hyd oil mineral VG46 HV	Working lights
Hyd oil mineral VG32 HV	Rear lights
Hyd oil mineral VG68 HV	Front mudflaps
Hyd oil bio synthetic VG46	Other
Boom suspension system	SMV warning triangle
Tilt speed limiter mechanical or hydraulic	Preparation for licence plate
Auxiliary hydraulic's return line (direct to tank or via filter)	Trailer hitch with electrical connector
Additional pump 42 I/min	Central Lubrification unit
Safety valves lift and tilt cylinders	Sweeper preparation
Rear hydraulics	Salt sprayer preparation
Boom kick out	Safety brace
Bucket leveler kick out	Attachments
Cab	General Purpose bucket
Airconditioner	Multi-Purpose bucket
Radio preparation	Grading bucket
Radio AUX/USB/Bluetooth	Light Material bucket
Air suspended/heated operator's seat	High-Tip bucket
Rearview mirrors inside cab	Side-Tip bucket
Enhanced rearview mirrors outside cab	Clamp bucket
Heated rearview mirrors	Stone Sorting bucket
Auxiliary cab & engine heater	Material Handling Arm
Orange seatbelt	Forks with mechanical or hydraulic tines movement
Wheel/Tires	Log Grapple
400/70R18	Custom-Built Attachments
405/70R18	
335/80R20	
360/80R20	
360/80R20 365/80R20	
365/80R20 375/75R20	
365/80R20 375/75R20 400/70R20	
365/80R20 375/75R20 400/70R20 405/70R20	
365/80R20 375/75R20 400/70R20	

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.

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