

Volvo Compact Wheel Loaders 5.5-6.1 t 75 hp

L35G

L35G



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

L35G 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.

Angle of oscillation	±°	10
Oscillation at wheel, max.	mm	270
Track	mm	1532
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 405 / 70 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. Torque parallel (TP) linkage also available as an option to provide greater breakoutforce throughout the entire tilt angle.

Linkage system		Z-bar
Lift cylinders		2
Tilt cylinders		1
Lift time (loaded)	s	5.5
Lowering time (empty)	s	3.5
Dump time	s	1.2

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	<u>+</u> °	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

Fresh air is filtered through a large elements prior entering, ensuring

restaints intered through a large elements prior entering, ensuring extremely clean air distribution in the cab.

Several air vents enables fast de-misting and defrosting.

The controlic monitoring system provides all important information in a central position and all machine controls are located in the operator's field of vision.

Sound Level			
Sound pressure level in cab according to ISO 6396:			
L_pA	dB	75	
External sound level according to ISO 6395 and 2000/14/EC:	EU Noise Directi	ive	
Lwa	dB	101	

Service Refill

Ground level access, fuel filler and hydraulic oil filler the rear engine hood.	well protect	ed under
Fuel tank	I	84
Engine oil	1	11.2
Engine coolant	I	11
Hydraulic tank	1	54
Front axle oil	I	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

The tilt function has three positions: rollback, hold (neutral) and dump.

The tilt 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...)

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

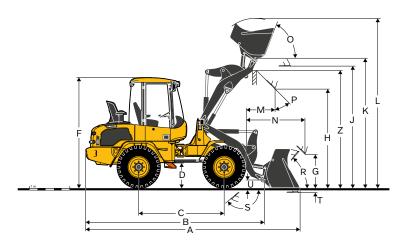
Cooling:

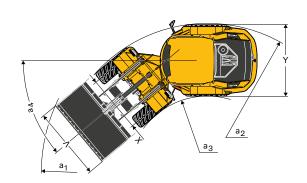
Thermostatically controlled oil flow to oil cooler (fast warm-up, optimized cooling).

Working pressure max	MPa	24
Flow	l/min	69
at engine speed	r/min	2 600



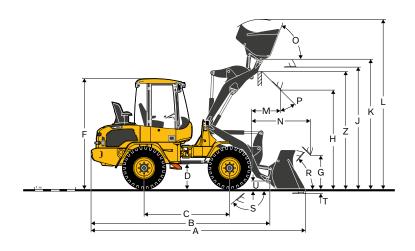
Specifications

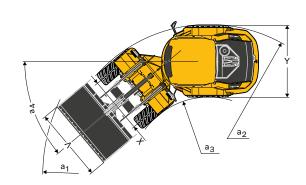




Description Unit		L35G Z-BAR	
Description	Oilit	with 405/70 R20 tires	
В	mm	4 485	
С	mm	2 150	
D	mm	610	
F	mm	2 745	
G	mm	900	
J	mm	3 145	
K	mm	3 345	
0	0	66	
Р	•	45	
R	•	50	
S	0	135	
U	mm	200	
Χ	mm	1 532	
Υ	mm	1932	
Z	mm	3 050	
a ₂	mm	3 960	
a ₃	mm	1980	
a ₄	0	±40	

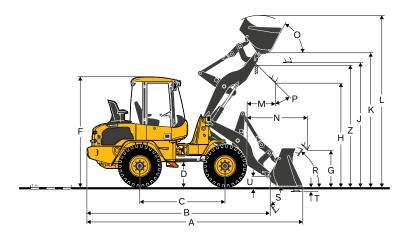
Description	Unit	L35G Z-BAR	
		FEM II	FEM III
With Loading Fork Centre of gravity 500mm		THE STATE OF THE S	
Tipping load, full turn (ISO / DIS)	kg	3 340	3 300
Payload according to EN 474-3, 60/80%	kg	2000/2500	2000/2600
Payload 80%, transport position, 40 ° full turn	kg	2 500	2 800

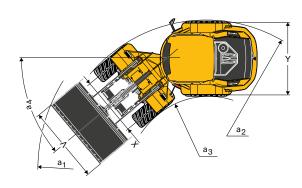




Description	Unit	L35G Z-BAR		
	,	GENERAL PURPOSE	Light material bucket	4-in-1
with 405/70 R20 tires		The state of the s		The state of the s
Capacity heaped	m³	1.2	1.5	1
Material density	kg/m³	1800	1200	1 900
Static tipping load, straight (ISO / DIS)	kg	4 950	4 650	4 450
Static tipping load, full turn 40° (ISO / DIS)	kg	4 350	4 050	3 950
Hydraulic lifting capacity, max.	kN	61.5	57.5	58.5
Breakout force	kN	60.5	43.5	52.5
A Total length	mm	5 420	5 690	5 520
L Lift height, max.	mm	4 320	4 500	4 260
V Bucket width	mm	2 100	2 000	2 000
a ₁ Clearance circle	mm	8 760	8 825	8 740
T Digging depth	mm	95	95	100
H Dump height	mm	2 670	2 470	2 570
M Reach at max. height	mm	750	935	780
N Reach, max.	mm	1 570	1 755	1 600
Operating weight	kg	6 100	6 200	6 440

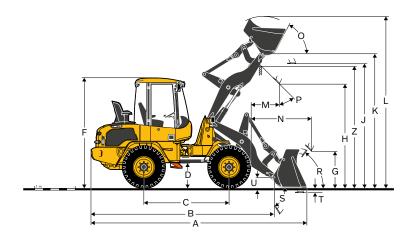
Specifications

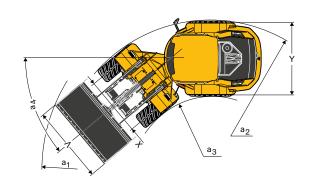




		ı	
		L35G TPZ	L35G TPV
Description	Unit	L35G with TPZ-attachment carrier and 405/70 R20 tires	L35G with TPV-attachment carrier and 405/70 R20 tires
В	mm	4 595	4 595
С	mm	2 150	2 150
D	mm	580	580
F	mm	2 715	2 715
G	mm	900	850
J	mm	3 100	3 100
K	mm	3 350	3 350
0	0	63	63
Р	۰	45	45
R	0	50	50
S	۰	58	58
U	mm	250	250
X	mm	1 532	1532
Υ	mm	1932	1 932
Z	mm	3 020	3 100
a ₂	mm	3 960	3 960
a ₃	mm	1980	1 980
a ₄	•	±40	±40

Description	Unit	L35G TPZ	L35G TPV	
With Loading Fork Centre of gravity 500mm				
Tipping load, full turn (ISO / DIS)	kg	2 930	2 750	
Payload according to EN 474-3, 60/80%	kg	1750/2300	1650/2200	
Payload 80%, transport position, 40 ° full turn	kg	2 500	2 500	





Description	Unit	L35G TPZ			L35G TPV		
		GENERAL PURPOSE	Light material bucket	4-in-1	GENERAL PURPOSE	Light material bucket	4-in-1
L35G with TPZ-attachment carrier and 405/70 R20 tires		The second		The state of the s	The section of the se		
Capacity heaped	m³	1	1.2	0.9	1	1.2	0.9
Material density	kg/m³	1800	1 500	1900	1800	1400	1800
Static tipping load, straight (ISO / DIS)	kg	4 200	4 150	3 900	3 950	3 900	3 750
Static tipping load, full turn 40° (ISO / DIS)	kg	3 700	3 650	3 450	3 500	3 450	3 300
Hydraulic lifting capacity, max.	kN	57	55.5	54	52	50.5	49
Breakout force	kN	62.5	54.5	59	54.5	48.5	51.5
A Total length	mm	5 420	5 520	5 460	5 520	5 620	5 555
L Lift height, max.	mm	4 290	4 330	4 200	4 250	4 390	4 260
V Bucket width	mm	2 000	2 000	2 000	2 000	2 000	2 000
a ₁ Clearance circle	mm	8 670	8 730	8 700	8 730	8 800	8 760
T Digging depth	mm	90	90	90	85	85	85
H Dump height	mm	2 610	2 535	2 560	2 550	2 470	2 490
M Reach at max. height	mm	725	785	715	800	855	785
N Reach, max.	mm	1545	1 605	1 535	1 620	1 678	1 600
Operating weight	kg	5 950	5 970	6 135	6 050	6 090	6 240

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 405/70 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 Engine Engine block heater Fuel pre-heater Pre cleaner air filter (Turbo II) Auto Engine Shutdown Reversible cooling fan Tropical cooling Drivetrain Hand inch valve Driveline shutoff Engine overspeeding protection Hydraulic system Hydraulic coupler for 3rd hydraulic circuit 4th hydraulic circuit Flow share function Joystick with integrated 3rd function Hyd oil mineral VG46 HV Hyd oil mineral VG32 HV Hyd oil mineral VG68 HV Hyd oil bio synthetic VG46 Boom suspension system Tilt speed limiter mechanical or hydraulic Auxiliary hydraulic's return line (direct to tank or via filter) Additional pump 42 I/min Safety valves lift and tilt cylinders Rear hydraulics Boom kick out Bucket leveler kick out Cab Airconditioner Radio preparation Radio AUX/USB/Bluetooth Air suspended/heated operator's seat Rearview mirrors inside cab Enhanced rearview mirrors outside cab Heated rearview mirrors Auxiliary cab & engine heater Orange seatbelt Wheel/Tires 405/70R18 335/80R20 360/80R20 365/80R20 375/75R20 400/70R20 405/70R20 500/45-22.5 420/65R24

455/70R20

Electrical	
One additional working light (rear left)	
Magnetic rotating beacon	
Foldable rotating beacon	
Audible reverse alarm	
Anti-theft system	
Daytime running headlight	
LED working lights	
Power outlet 12V 20A	
Protective equipment	
Windshield guard, front	
Windshield guard, rear	
Belly guards, front/rear	
Engine hood protection	
Protective guards for:	
Main head lights	
Working lights	
Rear lights	
Front mudflaps	
Other	
SMV warning triangle	
Preparation for licence plate	
Trailer hitch with electrical connector	
Central Lubrification unit	
Sweeper preparation	
Salt sprayer preparation	
Safety brace	

OPTIONAL EQUIPMENT

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.

V O L V O