

Volvo Compact Wheel Loaders  $5.5-6.1 \, \text{t} / 12,125-13,448 \, \text{lb}$  74 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 EPA Tier 4f 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)

Engine	Volvo	D3.3M
Max power at	r/min (r/s)	2,600 (43.3)
SAE J1995 gross	kW (hp)	55.4 (74)
Max. torque at	r/min (r/s)	1,500 (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)	98 (3.86)
Stroke	mm (in)	120 (7,323)

#### **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 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)	270 (10.6)
Track	mm (in)	1,532 (60.3)
Travel speed, forward/reverse		
1st gear	km/h (mi/h)	6 (3.7)
2nd gear	km/h (mi/h)	20 (12.4)
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)

#### 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 (psi)	19 (2,756)
Maximum flow	l/min (gal/min)	33.5 (8.85)
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 of vision.

#### Sound Level

#### 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 (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 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.

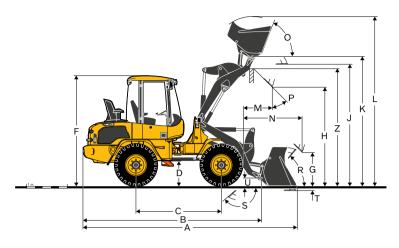
#### Cooling:

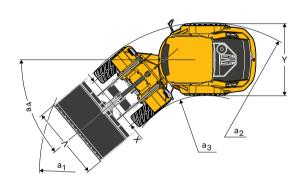
Thermostatically controlled oil flow to oil cooler (fast warm-up, optimized cooling).

Working pressure max	MPa (bar)	24 (240)
Flow	l/min (gal/min)	69 (18.2)
at engine speed	r/min (r/s)	2,600 (43.3)



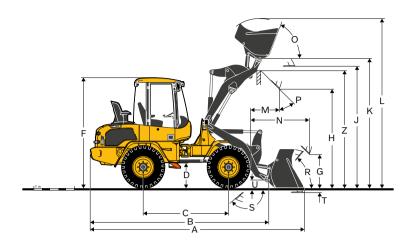
# **Specifications**

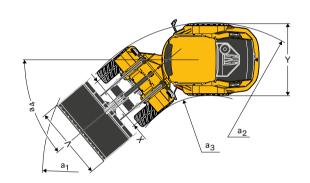




		L350	G Z-BAR
Description	Unit		05/70 R20 tires
В	mm ft	in 4,485	14'9"
С	mm ft	in 2,150	7'1"
D	mm ft	in 610	2'0"
F	mm ft	in 2,745	9'0"
G	mm ft	in 900	2'11"
J	mm ft	in 3,145	10'4"
K	mm ft	in 3,345	11'0"
0	o		66
P	0		45
R	o		50
S	o		135
U	mm ft	in 200	0'8"
X	mm ft	in 1,532	5'0"
Υ	mm ft	in 1,932	6'4"
Z	mm ft	in 3,050	10'0"
a <sub>2</sub>	mm ft	in 3,960	13'0"
a <sub>3</sub>	mm ft	in 1,980	6'6'
a <sub>4</sub>	0		±40

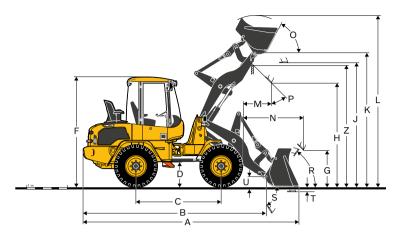
Description	Uı	nit	L35G Z-BAR			₹
			FEI	VI II	FEN	/III N
With Loading Fork Centre of gravity 500mm / 1'8" ft in			L.			
Tipping load, full turn (ISO / DIS)	kg	lb	3,340	7,363	3,300	7,275
Payload according to EN 474-3, 60/80%	kg	lb	2,000 /2,500	4,409 /5,512	2,000 / 2,600	4,409 /5,732
Payload 80%, transport position, 40 ° full turn	kg	lb	2,500	5,512	2,800	6,173

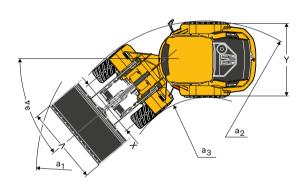




Description	Un	nit	L35G Z-BAR					
	GENERAL PURPOSE		PURPOSE	Light mate	erial bucket	4-in-1		
with 405/70 R20 tires	) tires		Control Control					
Capacity heaped	m³	yd <sup>3</sup>	1.2	1.6	1.5	2	1	1.3
Material density	kg/ m³	lb/ yd³	1,800	3,034	1,200	2,023	1,900	3,203
Static tipping load, straight (ISO / DIS)	kg	lb	4,950	10,913	4,650	10,251	4,450	9,811
Static tipping load, full turn 40° (ISO / DIS)	) kg	lb	4,350	9,590	4,050	8,929	3,950	8,708
Hydraulic lifting capacity, max.	kN	lbf	61.5	13,826	57.5	12,927	58.5	12,814
Breakout force	kN	lbf	60.5	13,601	43.5	9,779	52.5	11,915
A Total length	mm	ft in	5,420	17'9"	5,690	18'8"	5,520	18'2"
L Lift height, max.	mm	ft in	4,320	14'2"	4,500	14'9"	4,260	13'11"
V Bucket width	mm	ft in	2,100	6'11"	2,000	6'7"	2,000	6'7"
a <sub>1</sub> Clearance circle	mm	ft in	8,760	28'9"	8,825	28'11"	8,740	28'8"
T Digging depth	mm	ft in	95	0'4"	95	0'4"	100	0'4"
H Dump height	mm	ft in	2,670	8'9"	2,470	8'1"	2,570	8'5"
M Reach at max. height	mm	ft in	750	2'5"	935	3'0"	780	2'7"
N Reach, max.	mm	ft in	1,570	5'2"	1,755	5'9"	1,600	5'3"
Operating weight	kg	lb	6,100	13,448	6,200	13,669	6,440	13,867

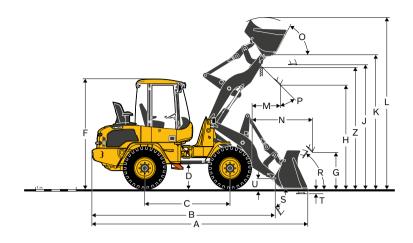
# **Specifications**

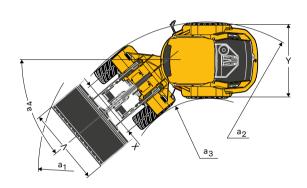




		L350	L35G TPZ		
Description	Unit	TPZ-atta	with achment d 405/70 tires		
В	mm ft i	n 4,595	15'1"		
С	mm fti	n 2,150	7'1"		
D	mm ft i	n 580	1'11"		
F	mm fti	n 2,715	8'11"		
G	mm ft i	n 900	2'11"		
J	mm fti	n 3,100	10'2"		
K	mm ft i	n 3,350	11'0"		
0	0	6	3		
P	۰	4	.5		
R	0	5	0		
S	۰	5	8		
U	mm fti	n 250	9.8"		
X	mm fti	n 1,532	5'0"		
Υ	mm fti	n 1,932	6'4"		
Z	mm fti	n 3,020	9'11"		
a <sub>2</sub>	mm fti	n 3,960	13'0"		
a <sub>3</sub>	mm ft i	n 1,980	6'6'		
a <sub>4</sub>	0	<u>+</u> 4	40		

Description	Uı	nit	L35G TPZ	
With Loading Fork Centre of gravity 500mm / 1'8" ft in			W. C.	
Tipping load, full turn (ISO / DIS)	kg	lb	2,930	6,460
Payload according to EN 474-3, 60/80%	kg	lb	1,750 / 2,300	3,858 / 5,070
Payload 80%, transport position, 40° full turn	kg	lb	2,500	5,512





Description	Un	it	L35G TPZ					
			GENERAL	PURPOSE	Light mate	erial bucket	4-	in-1
L35G with TPZ-attachment carrier and 405/70 R20 tires			The state of the s				The state of the s	
Capacity heaped	m³	yd <sup>3</sup>	1	1.3	1.2	1.6	0.9	1.2
Material density	kg/ m³	lb/ yd³	1,800	3,034	1,500	2,528	1,900	3,203
Static tipping load, straight (ISO / DIS)	kg	lb	4,200	9,259	4,150	9,149	3,900	8,598
Static tipping load, full turn 40° (ISO / DIS)	kg	lb	3,700	8,157	3,650	8,049	3,450	7,606
Hydraulic lifting capacity, max.	kN	lbf	57	12,814	55.5	12,477	54	12,140
Breakout force	kN	lbf	62.5	14,051	54.5	12,252	59	13,264
A Total length	mm	ft in	5,420	17'9"	5,520	18'1"	5,460	17'11"
L Lift height, max.	mm	ft in	4,290	14'1"	4,330	14'2"	4,200	13'9"
V Bucket width	mm	ft in	2,000	6'7"	2,000	6'7"	2,000	6'7"
a <sub>1</sub> Clearance circle	mm	ft in	8,670	28'5"	8,730	28'8"	8,700	28'7"
T Digging depth	mm	ft in	90	3.5"	90	3.5"	90	3.5"
H Dump height	mm	ft in	2,610	8'7"	2,535	8'4"	2,560	8'5"
M Reach at max. height	mm	ft in	725	2'4"	785	2'7"	715	2'4"
N Reach, max.	mm	ft in	1,545	5'1"	1,605	5'3"	1,535	5'
Operating weight	kg	lb	5,950	13,117	5,970	13,162	6,135	13,525

## **Equipment**

STANDARD EQUIPMENT

Engine

Diesel engine, water cooled

Diesel oxidation catalyst (DOC)

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 (70.000						

455/70R20

OPTIONAL EQUIPMENT						
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						
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 mechanical or hydraulic tines movement

Log Grapple

Custom-Built Attachments

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