

VOLVO WHEEL LOADERS

# L45G, L50G

8.6-9.9 t (19,026-21,804 lbs) 98-114 hp



# A PASSION FOR PERFORMANCE.

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

## Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

## Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



## You learn a lot in 175 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

## We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

## We have a passion for performance.

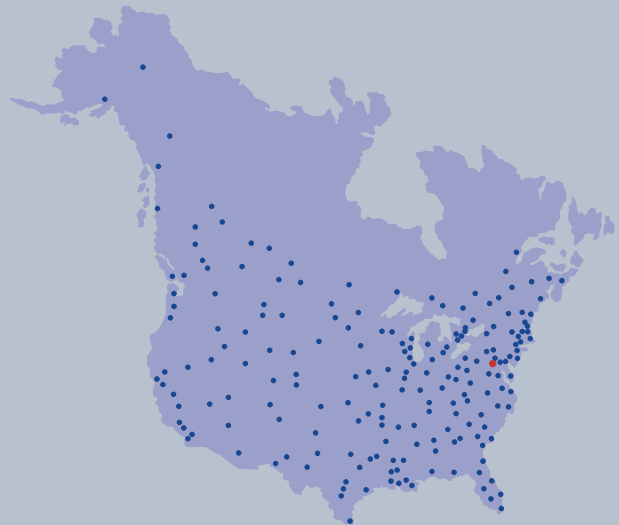
## A strong, dedicated, capable dealer network.

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.

The strength of our dealer network is enhanced with extensive individualized product and product support training at our state-of-the-art Technical Training Center in Asheville and through hands-on training. At our nearby 80-acre Product Demonstration Center, visitors operate equipment from our entire product line under a variety of simulated working conditions. Both facilities are in year-round use by our dealers and customers – more than 2,000 visit each year. **Building the best starts right here.**

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq. ft. expansion – now covers 570,000 sq. ft. on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.







Mack Trucks



Volvo Construction Equipment



Volvo Penta



Volvo Trucks



Renault Trucks



UD Trucks



Volvo Buses



Volvo Aero



Volvo Financial Services



# INTRODUCING THE BEST ALL-ROUNDER.

Volvo proudly introduces the L45G and L50G wheel loaders, built to perform on every site. The compact design enables easy maneuverability into small spaces, while Volvo's innovative TP linkage gives you the benefits of two machines in one. Experience the versatility for yourself.

## **Load-sensing hydraulics**

Load-sensing hydraulics deliver power to hydraulic functions only when it's needed, without unnecessary oil pumping, for lower fuel consumption and more sensitivity in load handling.



## **High lifting force**

A careful balance between lifting and tractive forces provides highly effective bucket penetration for all types of digging conditions.



## **Pilot-controlled valves**

Smooth and precise pilot-operated hydraulics enable the operator to easily control attachments with minimum effort and high precision in all applications.

# LATEST ENGINE TECHNOLOGY.

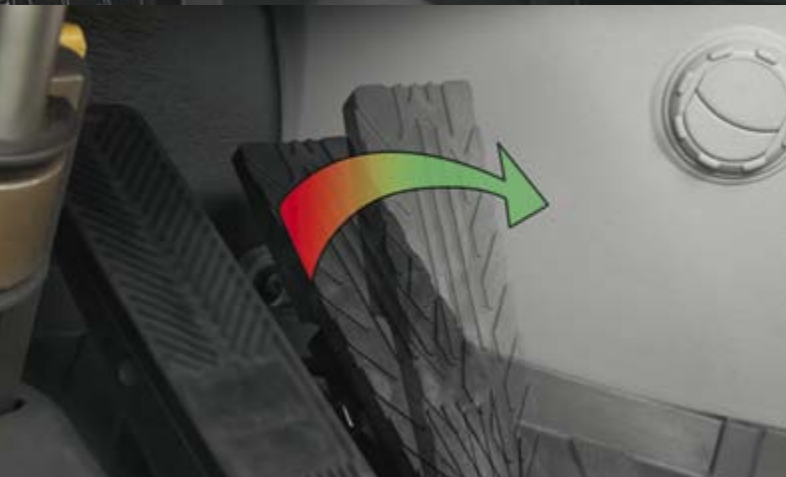
Volvo machines work hard on your job site, not on the environment. Power and efficiency are at the heart of Volvo's engine, which uses the latest technology to meet Tier 4 Interim/Stage IIIB regulations and reduce emissions as you operate. Environmentally responsible and powerful; that's Volvo.

## Reduce emissions on the move

Volvo's regeneration system works to reduce emissions without interrupting operation. Particles collected during filter cleaning are oxidized and transformed into non-toxic CO<sub>2</sub> every 6-10 hours.

## Engine cooling fan

Reduce maintenance with the reversible engine cooling fan. The automatic fan blows air back through the cooling pack to remove debris drawn into the radiator and only operates when needed to save fuel.



## Efficient eco pedal

Avoid excessive fuel use with Volvo's new eco pedal, which encourages operators to apply the appropriate amount of pressure (push-back) on the throttle pedal, reducing fuel consumption.

## Diesel Particulate Filter (DPF)

New to Tier 4, the Diesel Particulate Filter (DPF) traps and temporarily holds exhaust particulates (soot) as the machine operates, which are later incinerated inside the DPF during the regeneration process.

# SMALL SIZE: BIG TALENT.

## Efficient eco pedal

The eco pedal encourages operators to apply the appropriate amount of pressure (push-back) on the throttle pedal, reducing fuel consumption.



## Patented TP linkage

Volvo's unique Torque Parallel linkage combines Z-Bar and Parallel linkage in one for high breakout torque and parallel movement through the entire lifting range.

## Steering

Load-sensing hydrostatic steering system served from variable displacement pump. Excellent steering performance is maintained even at low engine speed. At the same time fuel consumption is reduced.

## Hydraulic attachment bracket

The Volvo hydraulic attachment bracket enables quick attachment changes for more flexibility on site.

## Load-sensing hydraulics

Load-sensing hydraulics deliver power to hydraulic functions only when it's needed, lowering fuel consumption.

## Volvo attachments

Volvo's range of high quality attachments are perfectly matched to the machine's linkage, hydraulics and driveline to work as one unit and increase productivity.



## Optimized driveline

Engine, transmission and axles work in perfect harmony with the hydraulics and steering for superb quality, performance and reliability.







#### Industry-leading cab

Adjustable steering wheel, seat and armrest, easily located controls and excellent all-round visibility for the perfect operator environment.

#### Analysis software

Maintain machine uptime by using Volvo's diagnostic computer-based analysis software: MATRIS and VCADS Pro.



#### CareTrack

Volvo's telematics system guides machine owners towards optimized productivity and their next service – remotely.



#### Maintain your uptime

The transverse mounted engine design provides easy access to all service points under the engine hood, for quick completion of maintenance checks.



#### Tier 4 Interim/Stage IIIB engine

Powerful, fuel efficient Volvo engine with V-ACT technology for high torque at low engine speeds. Engineered to meet Tier 4 Interim/Stage IIIB emissions requirements.

#### Differential lock

Select the differential lock to transfer 100% power to all wheels and reduce tire slippage for maximum traction on soft and slippery ground.

# COMPACT YOUR SERVICE TIME.

Daily service and maintenance checks have never been easier thanks to the new compact design. Lift the engine hood to quickly access key components from the radiator to the hydraulic filters and use Volvo diagnostic tools to alert when service is required. Volvo keeps you working for longer.

## Engine air filter

The dual element air filter is located in the engine compartment for full protection of the engine.



## Analysis software

Maintain machine uptime by using Volvo's diagnostic computer-based analysis software. MATRIS assesses operational data from the machine's electronic control unit (ECU), while VCADS Pro can adjust machine function according to results.

## Maintenance-free axle cradle

The rear axle cradle with integrated oscillating bearings are lubricated with the axle oil and protected by proven seals, saving you hours of maintenance time.



# STRENGTH TO SUPPORT YOU AND YOUR BUSINESS.

The day you receive your new Volvo Wheel Loader is just the start of your working relationship with Volvo. From service and maintenance products to a wide range of options and attachments – Volvo has a comprehensive aftermarket portfolio to continuously add value to your business.

**Customer Support Agreements** - Gives you peace of mind by reducing total ownership costs, maximizing uptime, and distributing maintenance and major repair costs.



**Attachments** - Providing customers with a wide variety of attachments keep your machine working and open up new job opportunities.



Volvo designed and built your machines, so no-one knows how to keep them working in top condition more than us. When it comes to your machine, our Volvo trained technicians are the experts.

Our technicians work with industry leading diagnostic tools and techniques, using only Genuine Volvo Parts to deliver the highest levels of quality and service. Talk to your Volvo dealer about how genuine Volvo services can best provide the service and maintenance plan that is the right fit for you and your business.

State-of-the-art machines require state-of-the-art support and your Volvo dealer can provide a catalogue of services designed to get the most out of your machine, helping you maximise uptime, productivity and residual value. Your Volvo dealer can provide a number of sophisticated support offers, including:

Service plans ranging from routine wear inspections, through to comprehensive maintenance and repair agreements.

Analysis and diagnostics to help you understand how your machine is running, highlight potential maintenance issues and identify where performance can be improved.

Eco Operator training courses can help your operators work towards a safer, more productive and fuel efficient performance.



## CareTrack

Volvo's state-of-the-art telematics system works with our exclusive machine tracking info system, MATRIS. CareTrack can give you the machine information needed for better planning and smarter working; such as daily usage reports, location reports and service maintenance reminders using guided diagnostics to track and analyze machines remotely. You can save fuel. You can reduce costs. You can maximize profitability. You can with CareTrack.



# GET ATTACHED.

Get flexible on site with Volvo attachments. Choose from an extensive range of buckets, pallet forks and grapples, perfectly-matched to the machine's link-arm geometry and breakout force. Volvo's attachment brackets let you quickly interchange between options so you can 'attach and go'.

## **Standard Volvo Attachment Bracket**

Volvo's standard hydraulic attachment bracket, is internationally ISO standardized and allows a quick and safe interchange of attachments for more flexibility on site. The strong, open bracket design enables the operator to clearly see attachment points from the cab.







# VOLVO L45G, L50G IN DETAIL.

## Engine

**Engine:** Volvo's V-ACT Tier 4i / Stage III B approved, 4 liter, 4-cylinder in-line four stroke diesel engine, turbocharger with waste gate, Common Rail fuel injection, cooled external Exhaust Gas Recirculation (EGR), diesel particulate filter (DPF). The throttle application is transmitted electrically from the throttle pedal or the optional hand throttle.

**Air cleaning:** Three-stage Cyclone precleaner - primary filter - secondary filter.

**Cooling system:** Air-to-air cooling pack. Powerful hydraulic fan electronically controlled.

		L45G
Engine		Volvo D4H
Max power at	r/s (r/min)	30 (1,800)
SAE J1995 gross	kW (hp)	75 (101)
ISO 9249, SAE J1349 net	kW (hp)	73 (98)
Max torque at	r/s (r/min)	24.2 (1,450)
SAE J1995 gross	Nm (lbf)	425 (313)
ISO 9249, SAE J1349 net	Nm (lbf)	406 (299)
Economic working range	r/min	1,200 - 1,800
Displacement	l (in <sup>3</sup> )	4 (244)

		L50G
Engine		Volvo D4H
Max power at	r/s (r/min)	31.7 (1,900)
SAE J1995 gross	kW (hp)	87 (117)
ISO 9249, SAE J1349 net	kW (hp)	85 (114)
Max torque at	r/s (r/min)	24.2 (1,450)
SAE J1995 gross	Nm (lbf)	490 (361)
ISO 9249, SAE J1349 net	Nm (lbf)	468 (345)
Economic working range	r/min	1,200 - 1,800
Displacement	l (in <sup>3</sup> )	4 (244)

## Hydraulic system

**System supply:** One load-sensing axial piston pump with variable displacement. The steering function always has priority.

**Valves:** Double-acting 3-spool valve (4-spool valve optional). The main valve is controlled by an appropriate pilot valve.

**Lift function:** The valve has four positions: Lift, hold (neutral), lower and float position. Optional inductive/magnetic automatic boom kick-out can be switched on and off and is adjustable to any position between maximum reach and full lifting height.

**Tilt function:** The valve has three positions: Rollback, hold (neutral) and dump. Inductive/magnetic automatic tilt can be adjusted to the desired bucket angle (bucket positioner).

**Cylinders:** Double-acting cylinders for all functions.

**Filter:** Full-flow filtration through 10 micron (absolute) filter cartridge in a combined suction-return-filter. Integrated valve for thermostatically controlled oil circuit through the oil-cooler.

		L45G, L50G
Working pressure max	Mpa (bar)	26 (260)
Flow	l (US gal)/min	132 (34.9)
at Engine speed	r/s (r/min)	36.7 (2,200)
Pilot working pressure	Mpa (bar)	2,5 (25)
Cycle times		L45G L50G
Raise	s	5,3 6,4
Tilt	s	1,1 1,6
Lower, empty	s	3,2 3,9
Total cycle time	s	9,6 11,9

**Instrumentation:** All important information is centrally located in the operator's field of vision. Display for Contronic monitoring system.

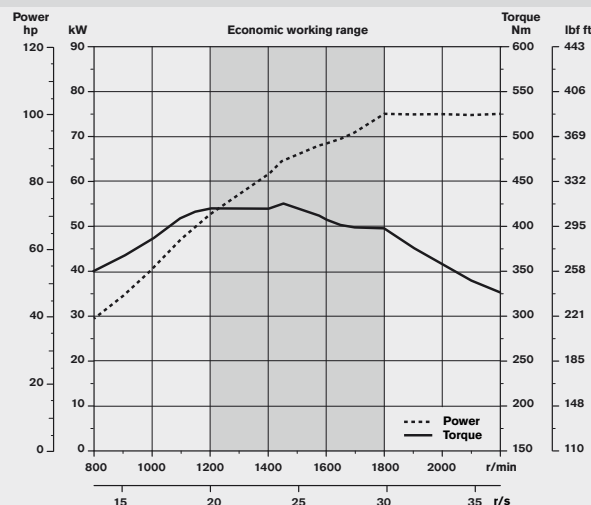
**Heater and defroster:** Heater coil with filtered fresh air and fan with auto and 11 speeds. Defroster vents for all window areas.

**Operator's seat:** Operator's seat with adjustable suspension and retractable seat belt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seat belt are absorbed by the seat rails.

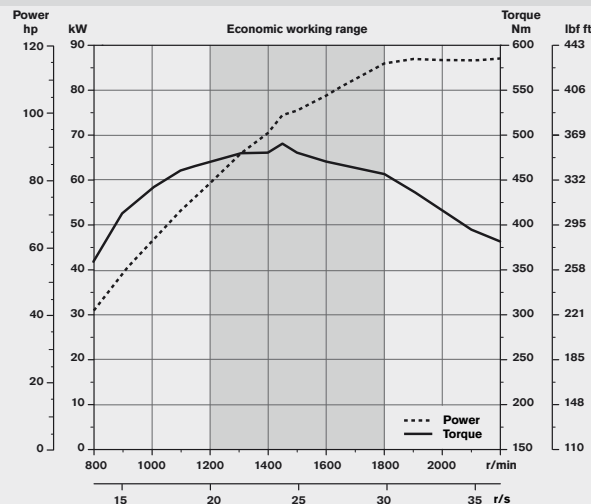
**Standard:** The cab is tested and approved according to ROPS (ISO 3471, SAE J1040), FOPS (ISO 3449). The cab meets with requirements according to ISO 6055 (Operator overhead protection - Industrial trucks) and SAE J386 ("Operator Restraint System").

		L45G, L50G
Emergency exit:		Use emergency hammer to break window
Sound level in cab according to ISO 6396:	LpA dB(A)	68
External sound level according to ISO 6395:	LwA dB(A)	102

## L45G



## L50G





Service		
<b>Filling capacities:</b>		
Fuel tank	l (US gal)	150 (39.6)
Engine oil	l (US gal)	14 (3.7)
Engine coolant	l (US gal)	20 (5.3)
Hydraulic tank	l (US gal)	95 (25)
Transmission oil	l (US gal)	2,2 (0.58)
Front axle oil	l (US gal)	17,0 (4.5)
Rear axle oil	l (US gal)	18,3 (4.8)

#### Drivetrain

##### Transmission

The hydrostatic transmission is an infinitely variable transmission. The speed gears limit the max. travel speed within the range - without any tractive power interruption. Maximum rimpull is available in all gears, regardless of the driving direction.

Automatic regulation ensures easy operation. Load limiting control protects the engine when additional power is requested by working hydraulics and auxiliary power take-off. No overheating in overload conditions.

**Axles:** Volvo fully floating axle shafts with hub planetary reductions and cast steel axle housing. Fixed front axle and oscillating rear axle, self-lubricated. 100% differential lock on both axles.

#### Drivetrain L45G, L50G

##### Travel speeds (Forward / Reverse)

1st gear	km/h (mph)	0 - 5 (0 - 3.1)
2nd gear	km/h (mph)	0 - 17 (0 - 10.5)
3rd gear	km/h (mph)	0 - 40 (0 - 25)

Angle of rear axle oscillation	°	±12
Oscillation at wheel	mm (in)	360 (14.2)
at Track width	mm (in)	1 730 (68.1)

#### Steering

**Steering system:** Load sensing hydrostatic articulated steering.

**System supply:** The steering system has priority feed from the load-sensing axial piston pump with variable displacement.

**Steering cylinders:** Two double-acting cylinders. Elastic end-stops.

L45G, L50G			
Steering cylinders		2	
Working pressure	Mpa (bar)	17,5 (175)	
Maximum flow	l min (US gal) min	70 (18.5)	
Max articulation	°	±40	
Linkage		L45G	L50G
Linkage system		TP	
Lift cylinders		2	
Tilt cylinders		1	
Lift time (loaded)	s	5,3	6,4
Lowering time (empty)	s	3,2	3,9
Dump time	s	1,1	1,6

#### Electrical system

Contronic electrical system with central warning light and buzzer, providing clear and easy to read information to the operator. LCD display with main and sub information field, adjustable to various languages.

Display information in three categories: Information on continuous operating data, Check requests (based on vehicle and error messages) and Warning (with alarm texts).

Additional audible warning by a buzzer. Indicator and activation lights for various control and monitoring functions.

Gauges for Fuel tank level, hydraulic oil temperature and engine temperature.

Keypad also provides display navigation on the central instrument. Direct access buttons for Engine, Transmission, Hydraulics, Axles & Brakes, Electric, Machine, Vehicle messages, Service and Setup. Antitheft equipment optional.

#### L45G, L50G

Voltage	V	24
Batteries	V	2x12
Battery capacity	Ah	2x100
Cold cranking capacity, approximate	A	830
Alternator rating	W/A	3 080/110
Starter motor output	kW (hp)	5,5 (7.4)

#### Brake system

**Service brake:** Reliable wet disc brakes with nitrogen-charged accumulators. Dual circuit on front and rear axle

**Secondary brake:** Dual circuit and hydrostatic retardation

##### Inching-brake pedal:

Hydraulic inching brake pedal provides hydrostatic braking for precise control of travel speed and service brake application.

1st stage: Wearless hydrostatic braking (inching)

2nd stage: Service brake application

##### Parking brake:

Dry disc brake on input shaft of front axle.

Standard: The brake system complies with the requirements of ISO 3450

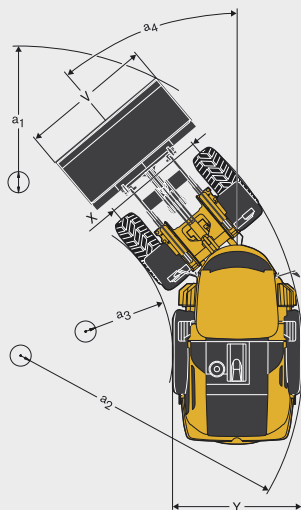
#### L45G

Number of brake discs per wheel front/rear		1/1
Accumulators	l (US gal)	3x0,5 (3x0.13)
Accumulators for parking brake	l (US gal)	1x0,5 (1x0.13)

#### L50G

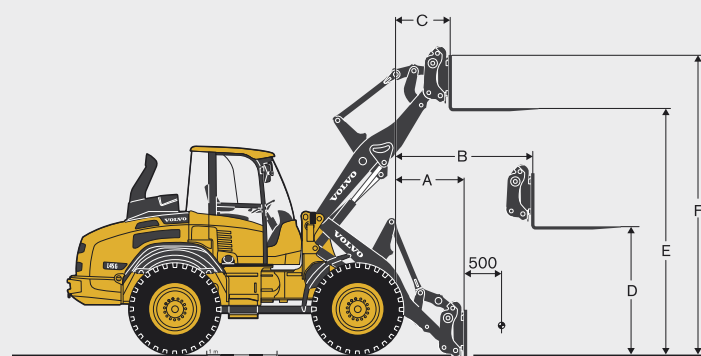
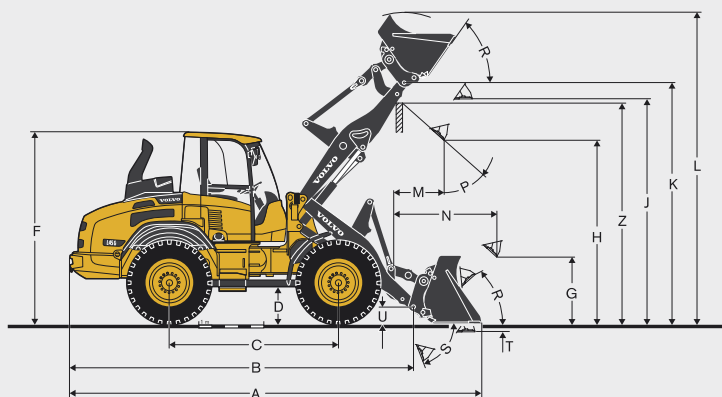
Number of brake discs per wheel front/rear		front 1
Accumulators	l (US gal)	2x0,5, 1x1,0 (2x0.13, 1x0.26)
Accumulators for parking brake	l (US gal)	1x1,0 (1x0.26)

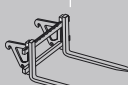
# SPECIFICATIONS L45G.



## L45G

		With TP-linkage, TPV attachment bracket and 17.5 R25 tires
B	mm (in)	5 280 (17' 4")
C	mm (in)	2 650 (8' 8")
D	mm (in)	435 (1' 5")
F	mm (in)	2 990 (9' 9")
G	mm (in)	1 040 (3' 4")
J	mm (in)	3 470 (11' 4")
K	mm (in)	3 725 (12' 2")
O	°	55
P	°	45
R	°	45
S	°	75
U	mm (in)	255 (10")
X	mm (in)	1 730 (5' 8")
Y	mm (in)	2 190 (7' 2")
Z	mm (in)	3 485 (11' 5")
a <sub>2</sub>	mm (in)	4 760 (15' 7")
a <sub>3</sub>	mm (in)	2 540 (8' 4")
a <sub>4</sub>	°	40









With Loading Fork		TPV attachment bracket	TPV Attachment bracket Long Boom
Center of gravity 500 mm (1' 8")			
A	mm (in)	785 (2' 7")	1 135 (3' 9")
B	mm (in)	1 475 (4' 10")	1 745 (5' 9")
C	mm (in)	650 (2' 2")	825 (2' 9")
D	mm (in)	1 705 (5' 7")	1 705 (5' 7")
E	mm (in)	3 490 (11' 5")	3 695 (12' 2")
F	mm (in)	4 225 (13' 10")	4 430 (14' 6")
Tipping load full turn (ISO 1 4397)	kg (lb)	4 420 (9,744)	-560 (-1,234)
Working load according to EN 474-3, 60/80 %	kg (lb)	2 650 / 3 530 (5,842 / 7,782)	-340 / - 450 (-749 / -992)
Working load 80%, transport position, 40° and full turn	kg (lb)	4 000 (8,818)	-

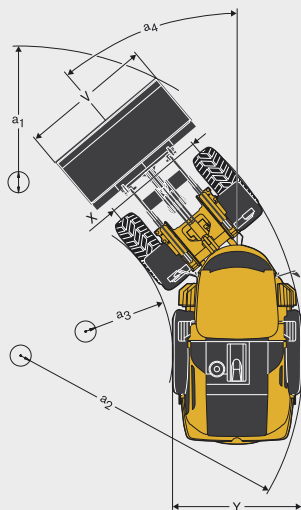


## L45G

With TP-Linkage,  
TPV attachment bracket  
(welded version)  
and 17.5 R25 tires

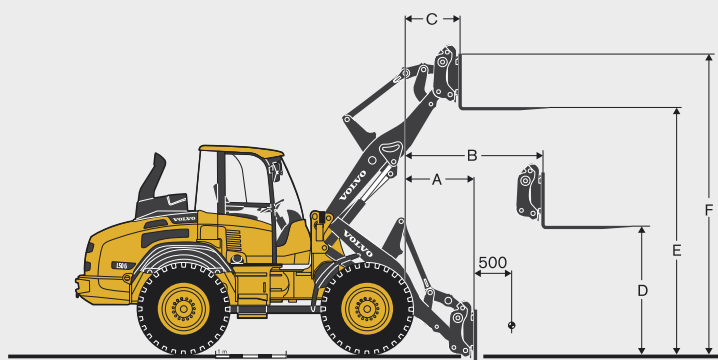
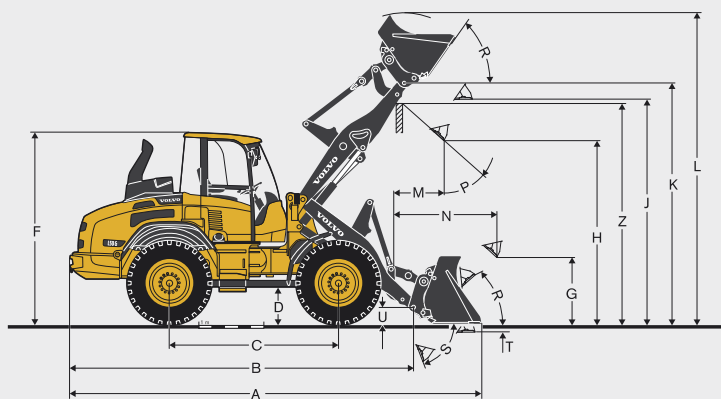
		GENERAL PURPOSE		LIGHT MATERIAL		4-in-1	High-Tip	LONG BOOM
								
Capacity heaped	m <sup>3</sup> (yd <sup>3</sup> )	1,4 (1.8)	1,5 (2.0)	1,8 (2.4)	2 (2.6)	1,2 (1.6)	2 (2.6)	-
Material density	kg/m <sup>3</sup> (lb/yd <sup>3</sup> )	1 800 (3,030)	1 700 (2,697)	1 400 (2,360)	1 200 (2,191)	1 900 (3,203)	1 000 (1,854)	-
Static tipping load, straight (ISO 14397)	kg (lb)	5 970 (13,160)	5 930 (13,073)	5 780 (12,742)	5 670 (12,500)	5 650 (12,456)	4 950 (10,912)	-
Static tipping load, full turn 40° (ISO 14397)	kg (lb)	5 290 (11,622)	5 250 (11,547)	5 120 (11,287)	5 020 (11,067)	5 000 (11,023)	4 370 (9,634)	-640 (-1,410)
Hydraulic lifting capacity, max.	kN (lbf)	70 (15,736)	69,4 (15,511)	67,5 (15,174)	66 (14,837)	66,5 (14,949)	57,5 (12,926)	-
Breakout force	kN (lbf)	62 (13,938)	59,7 (13,421)	53 (11,914)	48 (10,790)	66 (14,837)	-	-
A Total length	mm (ft/in)	6 350 (20' 10")	6 385 (20' 11")	6 505 (21' 4")	6 615 (21' 8")	6 295 (20' 8")	6 955 (22' 10")	200 (8")
L Lift height, max.	mm (ft/in)	4 740 (15' 7")	4 790 (15' 9")	4 810 (15' 9")	4 940 (16' 2")	4 815 (15' 10")	5 695 (18' 8")	-
V Bucket width	mm (ft/in)	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	-
a <sub>1</sub> Clearance circle	mm (ft/in)	10 300 (33' 10")	10 320 (33' 10")	10 390 (34' 1")	10 460 (34' 4")	10 305 (33' 10")	10 675 (35')	-
T Digging depth	mm (ft/in)	85 (3")	85 (3")	85 (3")	85 (3")	120 (5")	95 (4")	-
H Dump height, 45°	mm (ft/in)	2 800 (9' 2")	2 780 (9' 1")	2 690 (8' 10")	2 610 (8' 7")	2 790 (9' 2")	4 230 (13' 11")	-
M Reach at max. height	mm (ft/in)	930 (3' 1")	945 (3' 1")	1 025 (3' 4")	1 100 (3' 7")	815 (2' 8")	1 490 (4' 11")	170 (7")
N Reach, max.	mm (ft/in)	1 750 (5' 9")	1 770 (5' 10")	1 850 (6' 1")	1 925 (6' 4")	1 640 (5' 5")	2 670 (8' 9")	270 (10")
Operating weight	kg (lb)	8 630 (19,026)	8 650 (19,070)	8 660 (19,092)	8 690 (19,158)	8 850 (19,511)	9 090 (20,040)	-

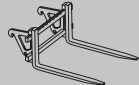
# SPECIFICATIONS L50G.









**L50G**

		With TP-linkage, TPV attachment bracket and 17.5 R25 tires
B	mm (in)	5 380 (17' 8")
C	mm (in)	2 650 (8' 8")
D	mm (in)	435 (1' 5")
F	mm (in)	2 980 (9' 9")
G	mm (in)	1 000 (3' 3")
J	mm (in)	3 525 (11' 7")
K	mm (in)	3 780 (12' 5")
O	°	54
P	°	45
R	°	44
S	°	76
U	mm (in)	255 (10")
X	mm (in)	1 730 (5' 8")
Y	mm (in)	2 190 (7' 2")
Z	mm (in)	3 535 (18' 2")
a <sub>2</sub>	mm (in)	4 760 (15' 7")
a <sub>3</sub>	mm (in)	2 540 (8' 4")
a <sub>4</sub>	°	40



With Loading Fork		TPV attachment bracket	TPV Attachment bracket Long Boom
Center of gravity 500 mm (1' 8")			
A	mm (in)	800 (2' 8")	1 060 (3' 6")
B	mm (in)	1 505 (4' 11")	1 705 (5' 7")
C	mm (in)	655 (2' 2")	785 (2' 7")
D	mm (in)	1 745 (5' 9")	1 745 (5' 9")
E	mm (in)	3 585 (11' 9")	3 735 (12' 3")
F	mm (in)	4 320 (14' 2")	4 470 (14' 8")
Tipping load full turn (ISO 14397)	kg (lb)	4 810 (10,604)	-420 (-926)
Working load according to EN 474-3, 60/80 %	kg (lb)	2 880 / 3 840 (6,349 / 8,466)	-240 / 120 (- 530 / - 265)
Working load 80%, transport position, 40° and full turn	kg (lb)	4 000 (8,818)	-

## L50G

With TP-linkage, TPV attachment bracket (cast version) and 17.5 R25 tires		GENERAL PURPOSE		LIGHT MATERIAL		4-in-1	High-Tip	LONG BOOM
								
Capacity heaped	m <sup>3</sup> (yd <sup>3</sup> )	1,5 (2.0)	1,6 (2.1)	1,8 (2.4)	2 (2.6)	1,4 (1.8)	2,3 (3.0)	-
Material density	kg/m <sup>3</sup> (lb/yd <sup>3</sup> )	1 900 (3,203)	1 700 (2,865)	1 500 (2,528)	1 300 (2,191)	1 900 (3,203)	1 000 (1,686)	-
Static tipping load, straight (ISO 14397)	kg (lb)	6 560 (14,462)	6 510 (14,352)	6 400 (14,110)	6 290 (13,867)	6 080 (13,404)	5 550 (12,236)	-
Static tipping load, full turn 40° (ISO 14397)	kg (lb)	5 810 (12,809)	5 750 (12,677)	5 670 (12,500)	5 570 (12,280)	5 390 (11,883)	4 910 (10,825)	-510 (-1,124)
Hydraulic lifting capacity, max.	kN (lbf)	86,5 (19,446)	86 (19,334)	84,5 (18,996)	83 (18,659)	81,5 (18,322)	73 (16,411)	-
Breakout force	kN (lbf)	72 (16,186)	69 (15,512)	64 (14,388)	58 (13,039)	65 (14,613)	-	-
A Total length	mm (ft/in)	6 460 (21' 2")	6 495 (21' 4")	6 580 (21' 7")	6 690 (21' 11")	6 560 (21' 6")	7 030 (23' 1")	150 (6")
L Lift height, max.	mm (ft/in)	4 880 (16' 0")	4 900 (16' 1")	4 980 (16' 4")	5 235 (17' 2")	4 905 (16' 1")	5 915 (19' 5")	-
V Bucket width	mm (ft/in)	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	2 250 (7' 5")	-
a <sub>1</sub> Clearance circle	mm (ft/in)	10 360 (34')	10 385 (34' 1")	10 435 (34' 3")	10 505 (34' 6")	10 475 (34' 4")	10 740 (35' 3")	-
T Digging depth	mm (ft/in)	95 (4")	95 (4")	95 (4")	95 (4")	130 (5")	105 (4")	-
H Dump height, 45°	mm (ft/in)	2 865 (9' 5")	2 845 (9' 4")	2 775 (9' 1")	2 695 (8' 10")	2 745 (9')	4 330 (14' 2")	-
M Reach at max. height	mm (ft/in)	965 (3' 2")	1 000 (3' 3")	1 040 (3' 5")	1 115 (3' 8")	965 (3' 2")	1 505 (4' 11")	130 (5")
N Reach, max.	mm (ft/in)	1 810 (5' 11")	1 830 (6')	1 890 (6' 2")	1 970 (6' 6")	1 810 (5' 11")	2 710 (8' 11")	200 (8")
Operating weight	kg (lb)	9 410 (20,745)	9 430 (20,790)	9 420 (20,767)	9 450 (20,834)	9 670 (21,319)	9 890 (21,804)	-



# EQUIPMENT.

## STANDARD EQUIPMENT

	L45G	L50G
<b>Engine</b>		
Diesel engine, direct fuel injection	•	•
Extra fuel filter	•	•
Cold start aid	•	•
Dry-type air filter	•	•
Preparation for pre-cleaner	•	•
Filtration screens on air inlets	•	•
Reversible cooling fan	•	•
<b>Electrical system</b>		
Alternator 55 A	•	•
<b>Lighting</b>		
Main head lights (halogen) upper/dipped/asymmetrical	•	•
Working lights (2 front/2 rear)	•	•
Parking lights	•	•
Rear lights	•	•
Brake lights	•	•
Direction indicators	•	•
Hazard warning lights	•	•
Reversing lights	•	•
Cab lighting	•	•
<b>Instrumentation &amp; controls</b>		
Multi-function joystick	•	•
24 Volt accessories socket	•	•
Forward horn	•	•
Hazard warning switch	•	•
Safety start	•	•
<b>Electronic Information System</b>		
Analog information for:		
Fuel level	•	•
Engine temperature	•	•
Drive system oil temperature	•	•
LED-illuminated symbols (color-coded) for:		
Direction (forward/reverse)	•	•
Indicators (left/right)	•	•
Pre-heater (option)	•	•
Main beam head lamp	•	•
Differential locks	•	•
Boom suspension system (option)	•	•
Loading fork operation (option)	•	•
LED-illuminated symbols (red) with acoustic signal for:		
Parking brake	•	•
Air filter restriction	•	•
Drive system oil temperature	•	•
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 (option)	•	•
Boom suspension system on/off (option)	•	•
Locking and activation of Volvo-attachment bracket	•	•
Activation of multi-function joystick for directional change	•	•
Digital LED display activated by dual function keys for:		
Entry and retrieval of operating information	•	•
Optional anti-theft function control	•	•
<b>Drivetrain</b>		
Hydrostatic drive	•	•
Operator-selected 100% differential locks in both axles	•	•
Tires 17.5 R25	•	•
<b>Hydraulic system</b>		
Load-Sensing Hydraulics	•	•
Axial piston pump	•	•
Control valve three-spool system	•	•
3rd hydraulic circuit and couplings	•	•
<b>Cab, Exterior</b>		
ROPS/FOPS-cab with flexible mountings	•	•
Lockable door	•	•
All-round tinted safety glass	•	•
Windscreen wiper (front/rear)	•	•
Windscreen washer (front/rear)	•	•
Door stops	•	•
External rear view mirrors (right/left)	•	•
Cab filtration system	•	•
<b>Cab, Interior</b>		
4-way adjustable operator's seat	•	•
Left armrest	•	•

	L45G	L50G
<b>Cab, Interior</b>		
Air conditioner	•	•
Heater with air-filter and defroster (front/rear)	•	•
Adjustable steering column Left armrest	•	•
<b>Cab, Interior</b>		
Seat belt	•	•
Sun visor	•	•
Cab filtration	•	•
Hook for coat	•	•
Cup holder	•	•
Emergency hammer	•	•
Storage box in the cab	•	•
Rear view mirrors (left/right)	•	•
<b>Working Equipment</b>		
Automatic bucket leveller	•	•
Hydraulic quick-change attachment bracket	•	•
<b>Carriage Body</b>		
Fenders (front/rear)	•	•
Fender extensions (optional)	•	•
Lockable engine hood	•	•
Lockable fuel-tank cap	•	•
Vertical exhaust	•	•
Towing device	•	•
Lifting eyes	•	•
<b>International Standards for Machines and Production</b>		
Quality: DIN/ISO 9001	•	•
Safety: CE - Criterion	•	•
Machine guide-lines 2006/42/EC	•	•
ROPS ISO 3471	•	•
FOPS ISO 3449	•	•
Operating weight ISO 7131	•	•
Tipping load / Payload: ISO 14397-1	•	•
EMC (Electromagnetic Compatibility)	•	•
89/336/EEC plus supplement	•	•
Environment: DIN/ISO 14001	•	•
Sound regulation: 2000/14/EC	•	•

## OPTIONAL EQUIPMENT (Standard on certain markets)

	L45G	L50G
<b>Service</b>		
Wheel chock	•	•
Tool Kit	•	•
Central Lub. unit (Volvo)	•	•
<b>Engine</b>		
Hand inch valve	•	•
Hand throttle	•	•
Turbo II Prefilter	•	•
Air pre-cleaner, oil-bath type	•	•
Tropical cooling	•	•
Fuel pre-heater	•	•
<b>Electrical</b>		
Rotating beacon foldable	•	•
Prep. rotating beacon magnetic	•	•
Rev. alarm audible switchable	•	•
Reverse alarm audible	•	•
Rev. alarm audio vis. switchable	•	•
Anti theft device	•	•
Rear lights protection	•	•
Headlights protection	•	•
Working lights guards, front/rear	•	•
Xenon work lights, front/rear	•	•
Care Track GSM	•	•
Care Track Satellite	•	•
Transport lights	•	•
El. headlights 350 mm (1' 2")	•	•
Road light equipment width 2.5 m (8' 2")	•	•
Power outlet 12 V	•	•
Rotating beacon magnet	•	•
<b>Cab</b>		
Door all glass	•	•
Foldable r.h. window	•	•
Split door	•	•
Seat fab. air/susp. heat	•	•
Seat mec./susp.	•	•
Radio preparation 12 V	•	•
Radio	•	•
Heated rearview mirrors	•	•
Rearview mirrors inside cab	•	•

## OPTIONAL EQUIPMENT (Standard on certain markets)

	L45G	L50G
<b>Cab</b>		
1 lever ctrl. incl. 3rd hyd. function	•	•
3 lever ctrl.	•	•
4 lever ctrl. incl. 4th hyd. function	•	•
Seat belt 3"	•	•
Comfort drive control (CDC)	•	•
<b>Hydraulics</b>		
Hyd. oil mineral VG46 HV	•	•
Hydr. Couplings	•	•
Boom suspension system	•	•
Tilt speed limiter mechanical	•	•
Boom kickout	•	•
4th function	•	•
Tilt control	•	•
Hyd. oil BIOSynth VG46 HLP PA	•	•
Hyd. oil mineral VG68 HV	•	•
Safety valve for tilt cylind.	•	•
Hyd. oil mineral VG32 HV	•	•
Extra oil ret. line via filter	•	•
<b>Other</b>		
Color Level 1 (yellow parts)	•	•
Preparation for licence plate	•	•
Side marking reflectors	•	•
SMV warning triangle	•	•
Trailer socket	•	•
Belly guards, front/rear	•	•
Windshield guard, rear	•	•
Windshield guard, front	•	•
Protect. wax coating incl. cyl.	•	•
Engine hood protection	•	•
Color Level 1+2	•	•
Auto Engine Shutdown L45/50G	•	•
GY TL-3A+ 17.5 R25	•	•
Removable rear left fender	•	•
<b>Tires</b>		
Front Mud flaps	•	•
MI 17.5R25 XHA	•	•
MI 15.5R25 XHA	•	•
GY 15.5-25 SGL	•	•
Mudguard extension 75 mm	•	•
Extended mud flaps	•	•
GY 17.5-25 SGL	•	•
GY 17.5R25 RT-3B	•	•
NO 540/65R24 TRI2	•	•
BR 17.5R25 VSW B2,25	•	•
MI 15.5R25 XMINE-D2	•	•
Wheels for transport only	•	•
MI 500/70 R24 XMCL	•	•
NO 440/80R24 TRI 2	•	•
MI 17.5R25 XMINE-D2	•	•
TR 600/55-26.5 T421	•	•
MI 17.5R25 XHA B2,4	•	•
BR 15.5R25 VUT	•	•
MI 15.5R25 XHA B2,4	•	•
GY 17.5R25 RT-3B B2,4	•	•
GY 550/65R25 GP-3D	•	•
MI 17.5R25 XHA SPW	•	•
High flow 125 l/min	•	•
Long boom	•	•
<b>ATTACHMENTS</b>		
	L45G	L50G
<b>Buckets</b>		
Straight with teeth and bolt on edges	•	•
High tipping	•	•
Light material	•	•
Multi purpose Grading	•	•
Clamp	•	•
<b>Other attachments</b>		
Log grapples	•	•
Forks	•	•
Material handling arm	•	•

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

Boom Suspension System



Comfort Drive Control (CDC)



Hydraulic 3<sup>rd</sup> and 4<sup>th</sup> function



Tilting condenser



Automatic Lubrication System



# VOLVO CONSTRUCTION EQUIPMENT



Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different.

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.

## **VOLVO**

**Volvo Construction Equipment**  
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