

VOLVO WHEEL LOADERS

L60G, L70G, L90G

13-17 tons 161-173 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.

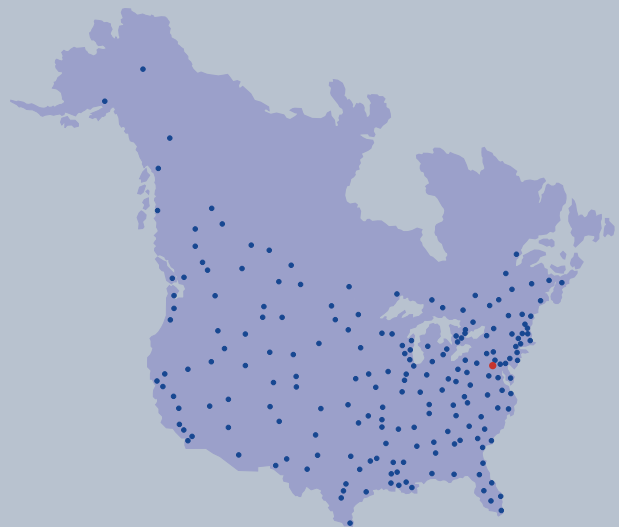
A strong, dedicated, capable dealer network.

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

TWO MACHINES IN ONE.

Handle your workload with Volvo's L60G, L70G and L90G: versatile wheel loaders that get the job done. Volvo's unique TP linkage delivers the benefits of two machines in one thanks to high breakout torque and parallel movement through the entire lifting range. Change attachments quickly with the attachment bracket for unbeatable flexibility on site.



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.



Patented TP linkage

Volvo's unique Torque Parallel linkage combines the benefits of Z-Bar and parallel linkage in one to deliver high breakout torque and excellent parallel movement throughout the entire lifting range.

Long reach and precision

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

BUILT TO PERFORM.

Looking for performance? Look no further than the L60G, 70G and 90G – built to perform with power and precision. Volvo quality from top to bottom means all components work in perfect harmony for the best operation. You can rely on Volvo.

Automatic Power Shift

Volvo's APS system simplifies operation by automatically selecting the right gear so the operator doesn't have to. Operator efficiency is significantly improved by allowing more concentration on the work in hand.

Differential lock for traction

The operator can select the differential lock to transfer 100% power to the wheels to reduce tire slippage for maximum traction on soft and slippery ground.



Optimized driveline

The engine, transmission, axles are all designed and manufactured by Volvo to work in perfect harmony with the hydraulics and steering for superb quality, performance and reliability.

Heavy-duty axles

Volvo's heavy-duty axles with outboard planetaries and wet disc brakes make sure the axles stay cool for longer service life. Purpose-built, durable axle housings absorb all loads from the machine weight to reduce working stress on the axle shafts for longer life.

BE IN CONTROL.



Command and control in Volvo's industry-leading cab. Ample leg room, storage space and climate control help operators remain focused when the work gets tough. State-of-the-art Volvo Contronic system continuously monitors machine performance, leaving you to admire your work from all angles through the excellent cab visibility.



Industry-leading cab

All-round visibility is at the forefront of design for Volvo's ROPS/FOPS approved cab. The cab is spacious allowing ample room to stretch out your legs and still have space for storage.



Contronic system

State-of-the-art Volvo Contronic system continuously monitors machine performance. Diagnostics are communicated to the operator via a screen in the cab for reduced downtime.

Air filter

The cab air intake is placed in a prime location – high on the machine, where the air is cleaner. A pre-filter separates coarse dust before the main filter to give the operator the freshest air.



Load-sensing steering

The load-sensing hydraulic steering system is only activated when the steering wheel is turned for lower fuel consumption, quick response and exact movement – even at low engine speeds.

Control your climate

Regardless of the weather, operators stay at the ideal temperature with Volvo's in-cab climate control system – choose Automatic Heat Control (AHC) or Air Conditioning (AC) to stay focused and efficient.

EASY TO MAINTAIN.



New engine hood design

The engine hood with improved rear visibility electrically opens for easy access and fast maintenance. A wide opening angle provides a better overview of the full engine compartment.

On site, time means money. That's why the new, electrically opening, engine hood is even easier to access for fast maintenance and service checks. Volvo's high-tech MATRIS and VCADS Pro software offers more in-depth engine and machine operation analysis to increase your uptime.

Maintenance-free cradles

The rear axle cradles are maintenance free and includes two grease-lubricated-for-life roller bearings and two oil bath, pre-filled-for-life bushings to save service time.



Analysis software

Maintain uptime using Volvo's analysis software. MATRIS uses output from the Contronic system to analyze machine operation, while the VCADS Pro software allows analysis and adjustment of machine performance by plugging a PC into the system.

Hydraulic cooling fan

Hydraulically driven, electronically controlled cooling fan, located behind the radiator, speeds-up only when necessary to lower fuel consumption and sound levels.

POWERED BY EFFICIENCY.

Volvo's powerful 5.7 litre, 6-cylinder turbocharged diesel engine meets Tier 4 Interim engine emissions requirements and delivers high torque at low engine speeds for industry-leading performance and fuel economy.

Fuel efficient Volvo V-ACT

Volvo Combustion Technology, V-ACT, is tailored for use in demanding applications. Fuel injection is electronically controlled based on temperature, pressure, load and engine speed in order to achieve optimal combustion. The result: high performance and low emissions.



Reduce emissions on the move

Reduce emissions without interrupting machine operation with Volvo's regeneration process. The active-type Diesel Particulate Filter (DPF) includes a Diesel Oxidation catalyst function, which works as you operate.

Operate efficiently with the eco pedal

The eco pedal encourages the operator to engage the throttle pedal with ease to lower fuel consumption, by applying the appropriate amount of mechanical counter pressure (push-back) to avoid excessive fuel use.

GET FLEXIBLE.

Volvo attachments give you more flexibility. Each attachment from the extensive range is perfectly matched to the machine's link-arm geometry and breakout, rim pull and lifting force. All attachments can be fastened and removed quickly thanks to Volvo's VAB-STD attachment bracket so you can 'connect and go'.



FULLY LOADED.

Contronic system

The Volvo Contronic system monitors the machine's performance and displays diagnostics to the operator to minimize downtime.



Patented TP linkage

Volvo's unique Torque Parallel linkage delivers high breakout torque and excellent parallel movement throughout the entire lifting range.

Hydraulic attachment bracket

The hydraulic attachment bracket enables quick attachment changes giving you more versatility on site.



Load-sensing hydraulics

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

Attachments

Volvo's wide 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

Volvo designed and manufactured engine and components work in perfect harmony for superb performance and reliability.



Industry-leading cab

All-round visibility and comfort is at the forefront of design for Volvo's ROPS/FOPS approved cab.

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 service needs – remotely.



New engine hood design

Engine hood electrically opens for easy access and fast maintenance. Wide opening angle gives a better engine overview.



Tier 4 Interim

Volvo's 6 litre, 6-cylinder turbocharged diesel engine is powerful, efficient and complies with Tier 4 Interim engine emissions requirements.

Automatic Power Shift

Volvo's APS system simplifies operation by automatically selecting the right gear allowing the operator to concentrate on the work in hand.

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 to our CareTrack telematics system – Volvo has a comprehensive and sophisticated aftermarket portfolio to continuously add value to your business.



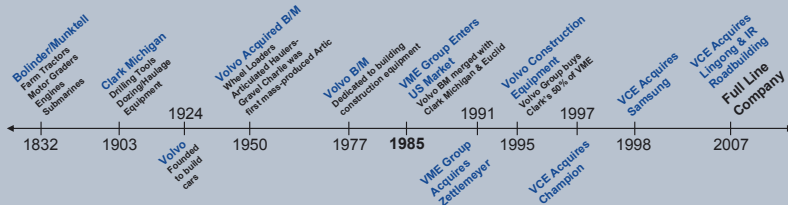
CareTrack - Volvo's telematics system works with our exclusive machine tracking info system, MATRIS, using guided diagnostics to track and analyze machines remotely - minimizing costs and maximizing uptime.



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.



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

Each Volvo Wheel Loader comes standard equipped with CareTrack, the Volvo telematics system. CareTrack provides information for better planning and smarter working; including fuel consumption reports, location reports and service reminders. Save fuel. Reduce costs. Maximise profitability. You can with CareTrack.

VOLVO L60G, L70G, L90G IN DETAIL.



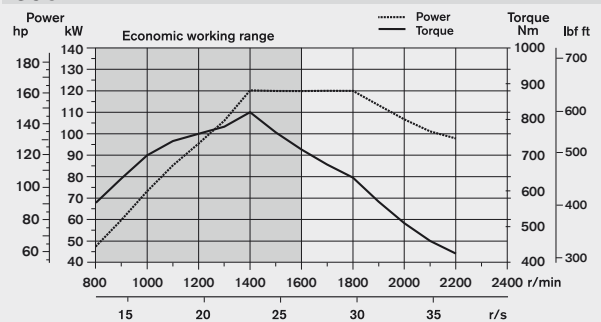
Engine

6-cylinder, 6 liters inline turbocharged diesel engine with an advanced fuel injection system with the common rail. Fuel is distributed under high pressure from a high-pressure accumulator, the rail. One belt driven high pressure pump deliver the fuel to the rail and then further on via high-pressure pipes to the electro-hydraulically operated fuel injectors. Cooled exhaust gas recirculation and particle filter with active regeneration.

L60G

Engine		D6H (Tier 4i)
Max power at	r/s (r/min)	23,3 - 30,0 (1,400 - 1,800)
SAE J1995 gross	kW / hp	120 / 161
ISO 9249, SAE J1349 net	kW / hp	120 / 161
Max torque at	r/s (r/min)	23,3 (1,400)
SAE J1995 gross	Nm / lbf-ft	820 / 605
ISO 9249, SAE J1349	Nm / lbf-ft	820 / 605
Economic working range	r/s (r/min)	13,3 - 26,6 (800 - 1,600)
Displacement	l / in ³	5,7 / 348

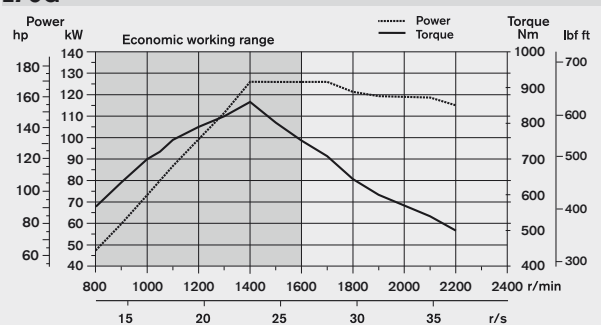
L60G



L70G

Engine		D6H (Tier 4i)
Max power at	r/s (r/min)	23,3 - 28,3 (1,400 - 1,700)
SAE J1995 gross	kW / hp	126 / 169
ISO 9249, SAE J1349 net	kW / hp	126 / 169
Max torque at	r/s (r/min)	23,3 (1,400)
SAE J1995 gross	Nm / lbf-ft	860 / 634
ISO 9249, SAE J1349 net	Nm / lbf-ft	860 / 634
Economic working range	r/s (r/min)	13,3 - 26,6 (800 - 1,600)
Displacement	l / in ³	5,7 / 348

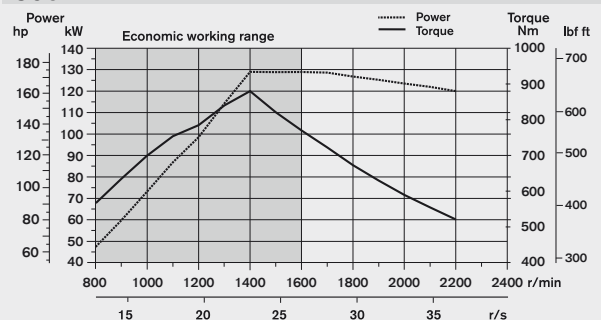
L70G



L90G

Engine		D6H (Tier 4i)
Max power at	r/s (r/min)	23,3 - 28,3 (1,400 - 1,700)
SAE J1995 gross	kW / hp	129 / 173
ISO 9249, SAE J1349 net	kW / hp	129 / 173
Max torque at	r/s (r/min)	23,3 (1,400)
SAE J1995 gross	Nm / lbf-ft	880 / 649
ISO 9249, SAE J1349 net	Nm / lbf-ft	880 / 649
Economic working range	r/s (r/min)	13,3 - 26,6 (800 - 1,600)
Displacement	l / in ³	5,7 / 348

L90G





Drivetrain

Torque converter: Single-stage
 Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM) valve.
 Transmission: Volvo Automatic Power Shift (APS) gear shifting system with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO mode.
 Axles: Volvo fully floating axle shafts with planetary hub reductions and cast steel axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

L60G

Transmission	Volvo	HTE 125
Torque multiplication		2,45:1
	1st gear km/h (mph)	8 (5.0)
Maximum speed,	2nd gear km/h (mph)	16 (9.9)
forward/reverse	3rd gear km/h (mph)	29 (18.0)
	4th gear* km/h (mph)	46 (28.6)
Measured with tires		20,5R25
Front axle/rear axle		AWB 15/AWB 15
Rear axle oscillation ±	°	± 13
Ground clearance at 13° osc.	mm (in)	470 (18.5)

L70G

Transmission	Volvo	HTE 125
Torque multiplication		2,45:1
	1st gear km/h (mph)	8 (5.0)
Maximum speed,	2nd gear km/h (mph)	15 (9.3)
forward/reverse	3rd gear km/h (mph)	29 (18.0)
	4th gear* km/h (mph)	46 (28.6)
Measured with tires		20,5R25
Front axle/rear axle		AWB 25/AWB 20
Rear axle oscillation ±	°	± 13
Ground clearance at 15° osc.	mm (in)	470 (18.5)

L90G

Transmission	Volvo	HTE 125
Torque multiplication		2,45:1
	1st gear km/h (mph)	7,7 (4.8)
Maximum speed,	2nd gear km/h (mph)	14,8 (9.2)
forward/reverse	3rd gear km/h (mph)	28,3 (17.6)
	4th gear* km/h (mph)	46,2 (28.7)
Measured with tires		20,5R25
Front axle/rear axle		AWB 25/AWB 20
Rear axle oscillation ±	°	± 13
Ground clearance at 15° osc.	mm (in)	470 (18.5)

* limited by ECU

Electrical system

Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault - Low steering system pressure - Over speed warning engine - Interruption in communication (computer fault) Central warning light and buzzer with the gear engaged for the following functions. - Low engine oil pressure - High engine oil temperature - High charge air temperature - Low coolant level - High coolant temperature - High crank case pressure - Low transmission oil pressure - High transmission oil temperature - Low brake pressure - Engaged parking brake - Fault on brake charging - Low hydraulic oil level - High hydraulic oil temperature - Overspeeding in engaged gear - High brake cooling oil temperature front and rear axles

L60G, L70G, L90G

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	2 x 110
Cold cranking capacity, approx.	A	690
Batteries		
Alternator rating	W/A	3135/120
Starter motor output	kW	5,5

Brake system

Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated, fully sealed oil circulation cooled wet disc brakes. The operator can select automatic clutch of the transmission when braking through Contronic.
 Parking brake: Dry disc brake mounted on the transmission output shaft. Applied by spring force, electro-hydraulically released with a switch on the instrument panel.
 Secondary brake: Dual brake circuits with rechargeable accumulators. One circuit or the parking brake fulfills all safety requirements.
 Standard: The brake system complies with the requirements of ISO 3450, 71/320/EEC

VOLVO L60G, L70G, L90G IN DETAIL.



Cab

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 seatbelt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails.

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

		L60G
Emergency exit:	Use emergency hammer to break window	
Sound level in cab according to ISO 6396/SAE J2105		
LpA	dB(A)	68
External sound level according to ISO 6395/SAE J2104		
LwA	dB(A)	104
Ventilation	m ³ (yd ³)/min	9 (11.8)
Heating capacity	kW	16
Air conditioning (optional)	kW	7,5
		L70G
Emergency exit:	Use emergency hammer to break window	
Sound level in cab according to ISO 6396/SAE J2105		
LpA	dB(A)	68
External sound level according to ISO 6395/SAE J2104		
LwA	dB(A)	105
Ventilation	m ³ (yd ³)/min	9 (11.8)
Heating capacity	kW	15
Air conditioning (optional)	kW	7,5
		L90G
Emergency exit:	Use emergency hammer to break window	
Sound level in cab according to ISO 6396/SAE J2105		
LpA	dB(A)	68
External sound level according to ISO 6395/SAE J2104		
LwA	dB(A)	105
Ventilation	m ³ (yd ³)/min	9 (11.8)
Heating capacity	kW	16
Air conditioning (optional)	kW	7,5

Lift arm system

Torque parallel linkage (TP-linkage) with high breakout torque and parallel lift-arm action.

		L60G
Lift cylinders		2
Cylinder bore	mm (in)	110 (4.3)
Piston rod diameter	mm (in)	70 (2.8)
Stroke	mm (in)	665 (26.2)
Tilt cylinder		1
Cylinder bore	mm (in)	150 (5.9)
Piston rod diameter	mm (in)	80 (3.1)
Stroke	mm (in)	444 (17.5)
		L70G
Lift cylinders		2
Cylinder bore	mm (in)	110 (4.3)
Piston rod diameter	mm (in)	70 (2.8)
Stroke	mm (in)	756 (29.8)
Tilt cylinder		1
Cylinder bore	mm (in)	160 (6.3)
Piston rod diameter	mm (in)	90 (3.5)
Stroke	mm (in)	432 (17)
		L90G
Lift cylinders		2
Cylinder bore	mm (in)	120 (4.7)
Piston rod diameter	mm (in)	70 (2.8)
Stroke	mm (in)	733 (28.9)
Tilt cylinder		1
Cylinder bore	mm (in)	180 (7.1)
Piston rod diameter	mm (in)	90 (3.5)
Stroke	mm (in)	430 (16.9)



Hydraulic system

System supply: One load-sensing axial piston pump with variable displacement. The steering function always has priority.
 Valves: Double-acting 2-spool valve. The main valve is controlled by a 2-spool pilot valve.
 Lift function: The valve has three positions; raise, hold and lower position. Inductive/magnetic automatic boom kickout 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 functions; rollback, hold and dump. Inductive/magnetic automatic tilt can be adjusted to the desired bucket angle.
 Cylinders: Double-acting cylinders for all functions.
 Filter: Full flow filtration through 10 micron (absolute) filter cartridge.
 Pilot system: 3,5 MPa

		L60G	L70G	L90G
Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa (bar)	26,0 (260)	26,0 (260)	31,0 (310)
Flow at engine speed	l (gal)/min MPa (bar) r/s (r/min)	155 (40.95) 10 (100) 32 (1,900)	164 (43.3) 10 (100) 32 (1,900)	173 (45.7) 10 (100) 32 (1,900)
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa (bar)	21,0 (210)	21,0 (210)	21,0 (210)
Flow at engine speed	l (gal)/min MPa (bar) r/s (r/min)	32 (8.45) 10 (100) 32 (1,900)	32 (8.45) 10 (100) 32 (1,900)	32 (8.45) 10 (100) 32 (1,900)
Pilot system, working pressure	MPa (bar)	3,5 (35)	3,5 (35)	3,5 (35)
Cycle times				
Lift	s	4.5	5.1	5.4
Tilt	s	2.3	1.3	1.9
Lower, empty	s	2.9	2.7	3.2
Total cycle time	s	9.7	9.1	10.5

Steering system

Steering system: Load-sensing, hydrostatic articulated steering,
 System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement,
 Steering cylinders: Two double-acting cylinders.

		L60G	L70G	L90G
Steering cylinders				
Cylinder bore	mm (in)	70 (2.76)	70 (2.76)	80 (3.1)
Rod diameter	mm (in)	45 (1.77)	45 (1.77)	50 (2.0)
Stroke	mm (in)	386 (15.2)	386 (15.2)	345 (13.58)
Working pressure	MPa (bar)	21 (210)	21 (210)	21 (210)
Maximum flow	l (gal)/min	60 (15.9)	60 (15.9)	60 (15.9)
Maximum articulation	± °	40	40	40

Service

Service accessibility: Large, easy-to-open hood covering whole engine department, electrically operated. Fluid filters and component breather air filters promote long service intervals. Possibility to monitor, log and analyze data to facilitate troubleshooting.

		L60G	L70G	L90G
Fuel Tank	l (gal)	219 (57.8)	219 (57.8)	219 (57.8)
Engine coolant	l (gal)	30 (7.9)	30 (7.9)	30 (7.9)
Hydraulic oil tank	l (gal)	90 (23.8)	90 (23.8)	90 (23.8)
Transmission oil	l (gal)	21 (5.5)	21 (5.5)	21 (5.5)
Engine oil	l (gal)	19,5 (5.2)	19,5 (5.2)	19,5 (5.2)
Axle oil front	l (gal)	24 (6.3)	35 (9.2)	35 (9.2)

SPECIFICATIONS.

Tires 23.5 R25 L3

		L60G	L70G	L90G	L60G	L70G	L90G
			Standard boom			Long boom	
B	mm (in)	6040 (237.8)	6080 (239.4)	6160 (242.5)	6550 (257.9)	6560 (258.3)	6590 (259.4)
C	mm (in)	3000 (118.1)	3000 (118.1)	3000 (118.1)	3000 (118.1)	3000 (118.1)	3000 (118.1)
D	mm (in)	440 (17.3)	450 (17.7)	450 (17.7)	440 (17.3)	450 (17.7)	450 (17.7)
F	mm (in)	3270 (128.7)	3280 (129.1)	3280 (129.1)	3270 (128.7)	3280 (129.1)	3280 (129.1)
G	mm (in)	2134 (84)	2134 (84)	2132 (83.9)	2134 (84)	2134 (84)	2132 (83.9)
J	mm (in)	3570 (140.6)	3580 (140.9)	3660 (144.1)	4090 (161)	4100 (161.4)	4080 (160.6)
K	mm (in)	3860 (152)	3870 (152.4)	3970 (156.3)	4380 (172.4)	4390 (172.8)	4390 (172.8)
O	°	56	56	56	56	53	57
P _{max}	°	45	46	45	44	43	45
R	°	43	42	43	43	44	47
R1*	°	46	45	47	50	51	53
S	°	79	69	67	79	72	65
T	mm (in)	104 (4.1)	102 (4)	105 (4.1)	141 (5.6)	111 (4.4)	111 (4.4)
U	mm (in)	400 (15.7)	380 (15)	430 (16.9)	590 (23.2)	560 (22)	580 (22.8)
X	mm (in)	1900 (74.8)	1930 (76)	1960 (77.2)	1900 (74.8)	1930 (76)	1960 (77.2)
Y	mm (in)	2430 (95.7)	2460 (96.9)	2490 (98)	2430 (95.7)	2460 (96.9)	2490 (98)
Z	mm (in)	3200 (126)	3210 (126.4)	3300 (129.9)	3590 (141.3)	3500 (137.8)	3660 (144.1)
a ₂	mm (in)	5340 (210.2)	5350 (210.6)	5370 (211.4)	5340 (210.2)	5350 (210.6)	5370 (211.4)
a ₃	mm (in)	2900 (114.2)	2890 (113.8)	2880 (113.4)	2900 (114.2)	2890 (113.8)	2880 (113.4)
a ₄	±°	40	40	40	40	40	40

* Carry position SAE

Tires: 20.5R25 L3

		L60G	L70G	L90G
SAE-Load	kg (lb)	3450 (7,610)	3990 (8,800)	4600 (10,140)
Operating weight without load	kg (lb)	12 240 (27,000)	13 940 (30,740)	16 080 (35,450)
A	m ² (yd ²)	1,3 (1.6)	1,5 (1.8)	2,4 (2.9)
B	mm (in)	3410 (134.3)	3390 (133.5)	3420 (134.6)
C	mm (in)	1480 (58.3)	1590 (62.6)	1820 (71.7)
D	mm (in)	2930 (115.4)	2870 (113)	2800 (110.2)
E	mm (in)	1170 (46.1)	1260 (49.6)	1430 (56.3)
F	mm (in)	1530 (60.2)	1510 (59.4)	1440 (56.7)
G	mm (in)	2350 (92.5)	2440 (96.1)	2760 (108.7)
H	mm (in)	4330 (170.5)	4380 (172.4)	4540 (178.7)
I	mm (in)	5880 (231.5)	6030 (237.4)	6590 (259.4)
J	mm (in)	2000 (78.7)	2140 (84.3)	2790 (109.8)
K	mm (in)	2080 (81.9)	2370 (93.3)	2990 (117.7)
L	mm (in)	1710 (67.3)	1790 (70.5)	2150 (84.6)
M	mm (in)	7890 (310.6)	7990 (314.6)	8460 (333.1)

L60G

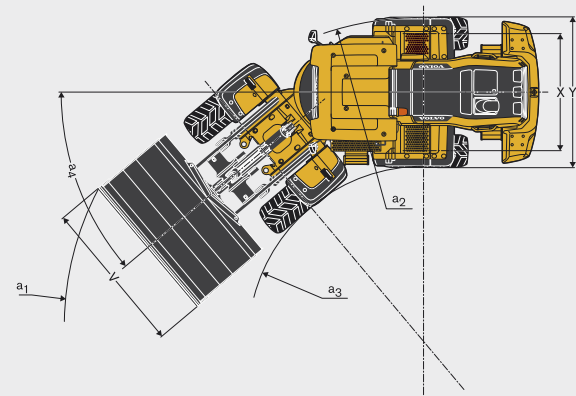
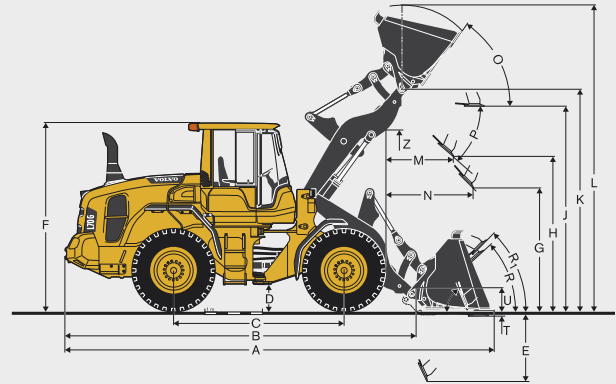
Sales code: WLA82194
 Operating weight (including logging cw 110 kg (243 lb):
 12 240 kg (26,985 lb)
 Operating load: 3450 kg (7,610 lb)

L70G

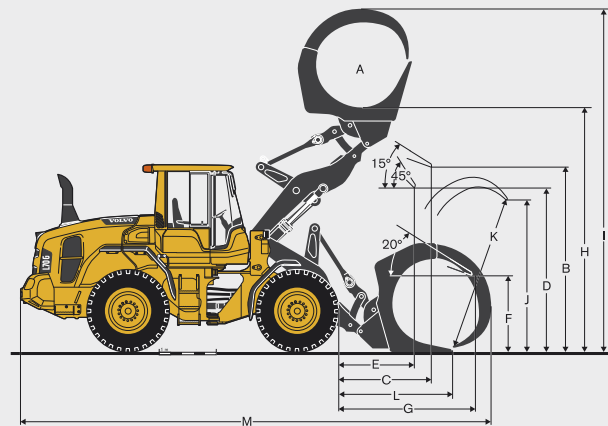
Sales code: WLA80153
 Operating weight (including logging cw 250 kg (551 lb):
 13 940 kg (30,732 lb)
 Operating load: 3990 kg (8,800 lb)

L90G

Sales code: WLA80832
 Operating weight (including logging cw 500 kg (1,102 lb):
 16 080 kg (35,450 lb)
 Operating load: 4600 kg (10,140 lb)



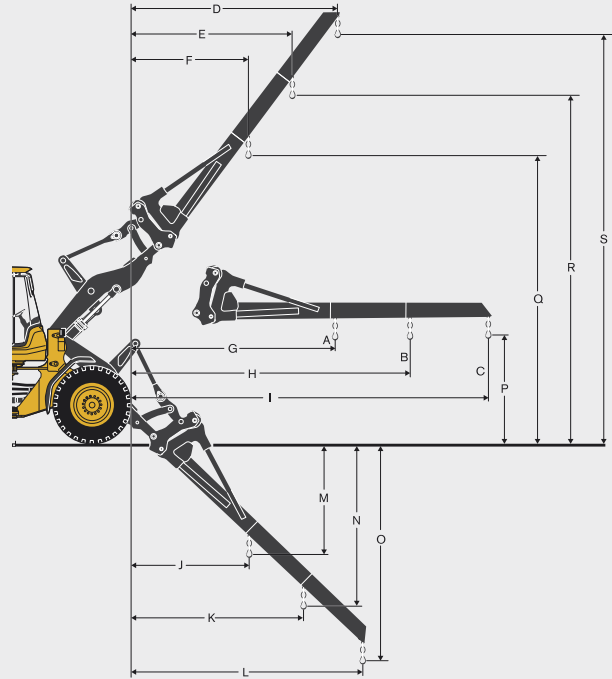
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818



Tires: 20.5R25 L3

		L60G	L70G	L90G
A*	kg (lb)	1800 (3,968)	2150 (4,740)	2760 (6,085)
B*	kg (lb)	1400 (3,086)	1710 (3,770)	2130 (4,696)
C*	kg (lb)	1150 (2,535)	1400 (3,086)	1740 (3,836)
D	mm (in)	2590 (102)	2710 (106.7)	2630 (103.5)
E	mm (in)	2000 (78.7)	2100 (82.7)	2030 (79.9)
F	mm (in)	1460 (57.5)	1540 (60.6)	1430 (56.3)
G	mm (in)	3270 (128.7)	3320 (130.7)	3270 (128.7)
H	mm (in)	4300 (169.3)	4350 (171.3)	4410 (173.6)
I	mm (in)	5430 (213.8)	5490 (216.1)	5540 (218.1)
J	mm (in)	900 (35.4)	1260 (49.6)	1360 (53.5)
K	mm (in)	1220 (48)	1740 (68.5)	1910 (75.2)
L	mm (in)	1580 (62.2)	2260 (89)	2460 (96.9)
M	mm (in)	2260 (89)	2170 (85.4)	2040 (80.3)
N	mm (in)	3240 (127.6)	3090 (121.7)	3030 (119.3)
O	mm (in)	4320 (170.1)	4100 (161.4)	4020 (158.3)
P	mm (in)	1510 (59.4)	1530 (60.2)	1540 (60.6)
Q	mm (in)	5290 (208.3)	5300 (208.7)	5340 (210.2)
R	mm (in)	6170 (242.9)	6180 (243.3)	6300 (248)
S	mm (in)	7140 (281.1)	7130 (280.7)	7260 (285.8)

* Carry position SAE



L60G

Sales code: WLA92007
Operating weight: 11 530 kg (25,419 lb)

L70G

Sales code: WLA92007
Operating weight: 12 990 kg (28,638 lb)

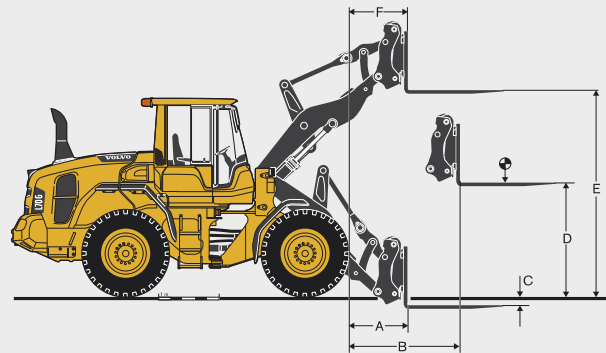
L90G

Sales code: WLA92007
Operating weight: 12 990 kg (28,638 lb)

Tires: 20.5R25 L3

		L60G	L70G	L90G
A	mm (in)	790 (31.1)	840 (33.1)	940 (37)
B	mm (in)	1560 (61.4)	1610 (63.4)	1690 (66.5)
C	mm (in)	-37 (-1.5)	-55 (-2.2)	42 (1.7)
D	mm (in)	1830 (72)	1860 (73.2)	1750 (68.9)
E	mm (in)	3710 (146.1)	3740 (147.2)	3730 (146.9)
F	mm (in)	700 (27.6)	760 (29.9)	750 (29.5)
Operating load at load center distance*	kg (lb)	4350 (9,590)	4900 (10,803)	5700 (12,566)
	mm (in)	600 (23.6)	600 (23.6)	600 (23.6)
Operating weight	kg (lb)	11 610 (25,596)	13 070 (28,814)	14 650 (32,298)

* acc. std. EN474-3, firm and level ground



L60G

Fork tine sales code:
(R/L) WLA80042 / WLA80043
Length: 1200 mm (47.3 in)
Fork frame sales code: WLA83768

L70G










Fork tine sales code:
(R/L) WLA80042 / WLA80043
Length: 1200 mm (47.3 in)
Fork frame sales code: WLA83768

L90G

Fork tine sales code:
(R/L) WLA80042 / WLA80043
Length: 1200 mm (47.3 in)
Fork frame sales code: WLA83768

SPECIFICATIONS.

L60G

Tires 20.5R25 XHA2 L3	GENERAL PURPOSE						GRADING	LIGHT MATERIAL		Long Boom	
	 1.9 (2.5) m ³ (yd ³) STE H BOE	 1.8 (2.4) m ³ (yd ³) STE H T	 2.1 (2.7) m ³ (yd ³) STE P BOE	 2.1 (2.7) m ³ (yd ³) STE H BOE	 2.3 (3.0) m ³ (yd ³) STE P BOE	 2.3 (3.0) m ³ (yd ³) STE H BOE	 1.7 (2.2) m ³ (yd ³) GRB H BOE	 3.1 (4.1) m ³ (yd ³) LM H	 5 (6.5) m ³ (yd ³) LM H		
Volume, heaped ISO/SAE	m ³ (yd ³)	1.9 (2.5)	1.8 (2.4)	2.1 (2.7)	2.1 (2.7)	2.3 (3.0)	2.3 (3.0)	1.7 (2.2)	3.1 (4.1)	5 (6.5)	-
Volume at 110% fill factor	m ³ (yd ³)	2.1 (2.7)	2 (2.6)	2.3 (3.0)	2.3 (3.0)	2.5 (3.3)	2.5 (3.3)	1.9 (2.4)	3.4 (4.5)	5.5 (7.2)	-
Static tipping load, straight	kg (lb)	8200 (18,070)	8350 (18,410)	8600 (18,960)	8100 (17,860)	8510 (18,780)	8000 (17,640)	7170 (15,820)	7820 (17,230)	7800 (17,190)	-1781 (-3,927)
at 35° turn	kg (lb)	7320 (16,140)	7470 (16,470)	7700 (16,980)	7230 (15,940)	7620 (16,800)	7130 (15,720)	6400 (14,120)	6960 (15,350)	6910 (15,240)	-1647 (-3,630)
at full turn	kg (lb)	7060 (15,570)	7210 (15,890)	7440 (16,400)	6970 (15,370)	7360 (16,220)	6880 (15,160)	6180 (13,620)	6710 (14,790)	6650 (14,660)	-1607 (-3,543)
Breakout force	kN (lbf)	80,2 (18,030)	84,2 (18,940)	82,9 (18,640)	76,1 (17,120)	79 (17,760)	72,9 (16,380)	60,2 (13,540)	61,7 (13,880)	53,8 (12,090)	9 (2,023)
A	mm (in)	7370 (290.2)	7490 (294.9)	7330 (288.6)	7430 (292.5)	7400 (291.3)	7500 (295.3)	7690 (302.8)	7710 (303.5)	7940 (312.6)	522 (20.6)
E	mm (in)	1140 (44.9)	1270 (50)	1110 (43.7)	1200 (47.2)	1170 (46.1)	1260 (49.6)	1400 (55.1)	1480 (58.3)	1700 (66.9)	37 (1.5)
H	mm (in)	2800 (110.2)	2730 (107.5)	2820 (111)	2760 (108.7)	2780 (109.4)	2710 (106.7)	2510 (98.8)	2580 (101.6)	2430 (95.7)	539 (21.2)
L	mm (in)	5110 (201.2)	5110 (201.2)	5110 (201.2)	5170 (203.5)	5190 (204.3)	5240 (206.3)	4520 (178)	5280 (207.9)	5480 (215.7)	516 (20.3)
M	mm (in)	1040 (40.9)	1160 (45.7)	1010 (39.8)	1090 (42.9)	1050 (41.3)	1130 (44.5)	1130 (44.5)	1320 (52)	1500 (59.1)	-1 (-0.04)
N	mm (in)	1580 (62.2)	1650 (65.0)	1570 (61.8)	1610 (63.4)	1590 (62.6)	1620 (63.8)	1480 (58.3)	1620 (63.8)	1670 (65.7)	445 (17.5)
V	mm (in)	2500 (98.4)	2500 (98.4)	2500 (98.4)	2500 (98.4)	2500 (98.4)	2500 (98.4)	2500 (98.4)	2550 (100.4)	2650 (104.3)	-
a1 clearance circle	mm (in)	11 600 (456.7)	11 670 (459.4)	11 590 (456.3)	11 630 (457.9)	11 620 (457.5)	11 660 (459.1)	11 970 (471.3)	11 840 (466.1)	12 060 (474.8)	-
Operating weight	kg (lb)	11 960 (26,370)	11 900 (26,240)	11 760 (25,920)	12 000 (26,460)	11 800 (26,020)	12 040 (26,550)	11 900 (26,240)	12 090 (26,660)	12 380 (27,300)	162 (35.7)

Bucket Selection Chart

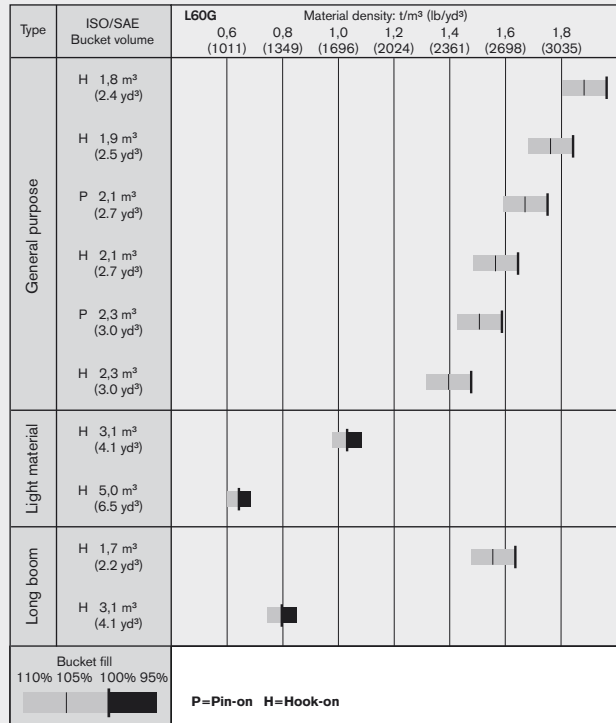
The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.
 Example: Sand and gravel. Fill factor ~ 105%. Density 1,65 t/m³ (2,780lb/yd³). Result: The 1,9 m³ (2.5 yd³) bucket carries 2,0 m³ (2.6 yd³). For optimal stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m ³ (lb/yd ³)	ISO/SAE bucket volume, m ³ (yd ³)	Actual volume, m ³ (yd ³)
Earth/Clay	~ 110	~ 1,55 (2,610)	1,9 (2.5)	2,1 (2.8)
		~ 1,40 (2,360)	2,1 (2.8)	2,3 (3.0)
		~ 1,30 (2,190)	2,3 (3.0)	2,5 (3.3)
Sand/Gravel	~ 105	~ 1,65 (2,780)	1,9 (2.5)	2,0 (2.6)
		~ 1,50 (2,530)	2,1 (2.8)	2,2 (2.9)
		~ 1,35 (2,280)	2,3 (3.0)	2,1 (2.8)
Aggregate	~ 100	~ 1,75 (2,950)	1,9 (2.5)	1,9 (2.5)
		~ 1,55 (2,610)	2,1 (2.8)	2,1 (2.8)
		~ 1,55 (2,610)	2,3 (3.0)	2,3 (3.0)
Rock	≤100	~ 1,70 (2,870)	1,7 (2.2)	1,7 (2.2)

The size of rock buckets is optimized for optimal penetration and filling capability rather than the density of the material.










Supplemental Operating Data

Tires 20.5 R25 L2	Standard boom		Long boom	
	17.5 R25 L2	600/65 R25	600/65 R25	
Width over tires	mm (in)	-130 (-5)	+60 (+2)	+60 (+2)
Ground clearance	mm (in)	-60 (-2)	-20 (-1)	-20 (-1)
Tipping load, full turn	kg (lb)	-310 (-680)	+130 (+290)	+110 (+240)
Operating weight	kg (lb)	-560 (-1,230)	+240 (+530)	+240 (+530)



How to read bucket fill factor

L70G

Tires 20.5R25 XHA2 L3	GENERAL PURPOSE						Grading	LIGHT MATERIAL	Long Boom		
											
	2.1 (2.7) m ³ (yd ³) STE H BOE	2 (2.6) m ³ (yd ³) STE H T	2.3 (3.0) m ³ (yd ³) STE P BOE	2.3 (3.0) m ³ (yd ³) STE H BOE	2.4 (3.1) m ³ (yd ³) STE P BOE	2.4 (3.1) m ³ (yd ³) STE H BOE	2.2 (2.9) m ³ (yd ³) GRB H BOE	3.4 (4.4) m ³ (yd ³) LM H	6.4 (8.7) m ³ (yd ³) LM H		
Volume, heaped ISO/SAE	m ³ (yd ³)	2.1 (2.7)	2 (2.6)	2.3 (3.0)	2.3 (3.0)	2.4 (3.1)	2.4 (3.1)	2.2 (2.9)	3.4 (4.4)	6.4 (8.4)	-
Volume at 110% fill factor	m ³ (yd ³)	2.3 (3.0)	2.2 (2.9)	2.5 (3.3)	2.5 (3.3)	2.6 (3.5)	2.6 (3.5)	2.4 (3.2)	3.7 (4.9)	7 (9.2)	-
Static tipping load, straight	kg (lb)	9210 (20,300)	9380 (20,680)	9720 (21,430)	9130 (20,130)	9680 (21,350)	9100 (20,060)	7470 (16,480)	8740 (19,260)	8300 (18,290)	-1 856 (-4,091)
at 35° turn	kg (lb)	8220 (18,120)	8380 (18,480)	8700 (19,180)	8140 (17,950)	8660 (19,100)	8110 (17,880)	6630 (14,610)	7770 (17,130)	7300 (16,090)	-1 699 (-3,747)
at full turn	kg (lb)	7920 (17,470)	8090 (17,830)	8400 (18,520)	7850 (17,310)	8360 (18,440)	7820 (17,240)	6380 (14,060)	7480 (16,500)	7000 (15,440)	-1 654 (-3,645)
Breakout force	kN (lbf)	90.3 (20,290)	94.6 (21,260)	95.3 (21,430)	86.6 (19,470)	93.4 (21,010)	85 (19,120)	62.7 (14,100)	71.8 (16,140)	53.9 (12,120)	-2 (-450)
A	mm (in)	7470 (294.1)	7590 (298.8)	7420 (292.1)	7530 (296.5)	7440 (292.9)	7560 (297.6)	7950 (313)	7780 (306.3)	8330 (328)	464 (18.3)
E	mm (in)	1180 (46.5)	1290 (50.8)	1120 (44.1)	1230 (48.4)	1150 (45.3)	1250 (49.2)	1670 (65.7)	1470 (57.9)	1970 (77.6)	27 (1.0)
H	mm (in)	2760 (108.7)	2690 (105.9)	2800 (110.2)	2720 (107.1)	2780 (109.4)	2700 (106.3)	2360 (92.9)	2530 (99.6)	2150 (84.6)	484 (19.0)
L	mm (in)	5220 (205.5)	5220 (205.5)	5220 (205.5)	5290 (208.3)	5250 (206.7)	5320 (209.4)	4720 (185.8)	5450 (214.6)	5790 (228)	473 (18.6)
M	mm (in)	1130 (44.5)	1240 (48.8)	1090 (42.9)	1170 (46.1)	1100 (43.3)	1190 (46.9)	1340 (52.8)	1340 (52.8)	1720 (67.7)	-22 (-0.9)
N	mm (in)	1650 (65)	1710 (67.3)	1620 (63.8)	1660 (65.4)	1630 (64.2)	1670 (65.7)	1570 (61.8)	1680 (66.1)	1720 (67.7)	397 (15.6)
V	mm (in)	2550 (100.4)	2550 (100.4)	2550 (100.4)	2550 (100.4)	2550 (100.4)	2550 (100.4)	2650 (104.3)	2650 (104.3)	2750 (108.3)	-
a1 clearance circle	mm (in)	11 690 (460.2)	11 760 (463)	11 660 (459.1)	11 720 (461.4)	11 680 (459.8)	11 730 (461.8)	12 320 (485)	11 980 (471.7)	12 410 (488.6)	-
Operating weight	kg (lb)	13 500 (29,780)	13 430 (29,620)	13 290 (29,300)	13 540 (29,860)	13 310 (29,350)	13 560 (29,910)	13 800 (30,430)	13 750 (30,320)	14 290 (31,510)	246 (542)

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.

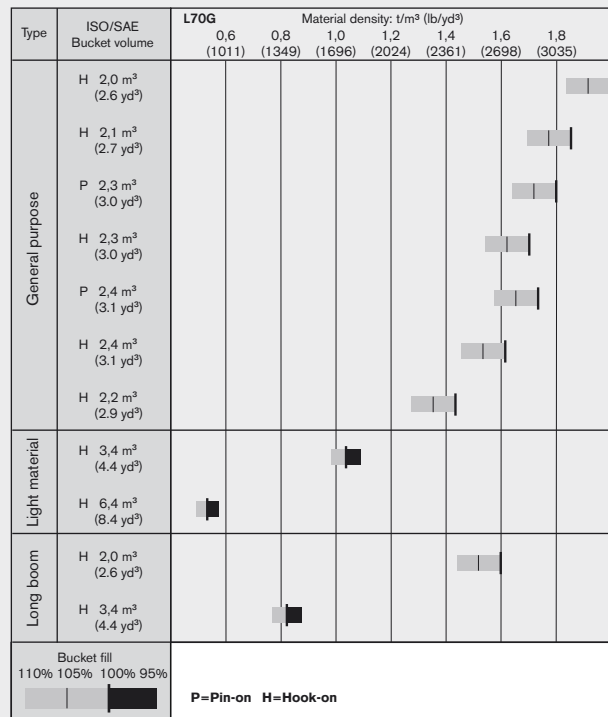
Example: Sand and gravel. Fill factor ~ 105%. Density 1,6 t/m³ (2,700 yd³).
Result: The 2,1 m³ (2.7 yd³) bucket carries 2,2 m³ (2.9 yd³). For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m ³ (lb/yd ³)	ISO/SAE bucket volume, m ³ (yd ³)	Actual volume, m ³ (yd ³)
Earth/Clay	~ 110	~ 1,55 (2,610)	2,1 (2.7)	2,3 (3.0)
		~ 1,45 (2,440)	2,3 (3.0)	2,5 (3.3)
		~ 1,40 (2,360)	2,4 (3.1)	2,6 (3.4)
Sand/Gravel	~ 105	~ 1,60 (2,700)	2,1 (2.7)	2,2 (2.9)
		~ 1,50 (2,530)	2,3 (3.0)	2,4 (3.1)
		~ 1,45 (2,440)	2,4 (3.1)	2,5 (3.3)
Aggregate	~ 100	~ 1,80 (3,030)	2,1 (2.7)	2,1 (2.8)
		~ 1,70 (2,870)	2,3 (3.0)	2,3 (3.0)
		~ 1,60 (2,700)	2,4 (3.1)	2,4 (3.1)
Rock	≤100	~ 1,70 (2,870)	1,6 (2.1)	1,6 (2.1)

The size of rock buckets is optimized for optimal penetration and filling capability rather than the density of the material.

Supplemental Operating Data










Tires 20.5 R25 L2	Standard boom		Long boom
	600/65 R25		600/65 R25
Width over tires	mm (in)	+60 (+2)	+60 (+2)
Ground clearance	mm (in)	-20 (-1)	-20 (-1)
Tipping load, full turn	kg (lb)	+150 (+330)	+130 (+290)
Operating weight	kg (lb)	+240 (+530)	+240 (+530)



How to read bucket fill factor

SPECIFICATIONS.

L90G

Tires 20.5R25 XHA2 L3	GENERAL PURPOSE									LIGHT MATERIAL	Long Boom
	 2.3 (3.0) m³ (yd³) STE H BOE	 2.5 (3.3) m³ (yd³) STE H T	 2.5 (3.3) m³ (yd³) STE P BOE	 2.5 (3.3) m³ (yd³) STE H BOE	 2.6 (3.4) m³ (yd³) STE H BOE	 2.8 (3.7) m³ (yd³) STE P BOE	 2.8 (3.7) m³ (yd³) STE H BOE	 4.1 (5.4) m³ (yd³) LM H	 7 (9.2) m³ (yd³) LM H		
Volume, heaped ISO/SAE	m³ (yd³)	2.3 (3.0)	2.5 (3.3)	2.5 (3.3)	2.5 (3.3)	2.6 (3.4)	2.8 (3.7)	2.8 (3.7)	4.1 (5.4)	7 (9.2)	-
Volume at 110% fill factor	m³ (yd³)	2.5 (3.3)	2.8 (3.6)	2.8 (3.6)	2.8 (3.6)	2.9 (3.7)	3.1 (4.0)	3.1 (4.0)	4.5 (5.9)	7.7 (10.1)	-
Static tipping load, straight	kg (lb)	10 670 (23,530)	10 710 (23,620)	11 180 (24,660)	10 490 (23,120)	10 520 (23,190)	11 150 (24,580)	10 400 (22,930)	10 100 (22,270)	9800 (21,620)	-1779 (3,922)
at 35° turn	kg (lb)	9430 (20,790)	9460 (20,870)	9910 (21,840)	9260 (20,420)	9280 (20,460)	9880 (21,780)	9160 (20,200)	8880 (19,590)	8570 (18,890)	-1623 (3,579)
at full turn	kg (lb)	9060 (19,980)	9100 (20,060)	9530 (21,010)	8900 (19,620)	8910 (19,660)	9500 (20,950)	8800 (19,400)	8520 (18,790)	8200 (18,090)	-1578 (-3,478)
Breakout force	kN (lbf)	134.9 (30,320)	134 (30,130)	141.3 (31,760)	129.5 (29,110)	127 (28,560)	135.5 (30,470)	124.7 (28,030)	100.6 (22,620)	87 (19,570)	-2 (-450)
A	mm (in)	7590 (298.8)	7860 (309.4)	7540 (296.9)	7650 (301.2)	7680 (302.4)	7600 (299.2)	7710 (303.5)	8040 (316.5)	8350 (328.7)	411 (16.2)
E	mm (in)	1200 (47.2)	1430 (56.3)	1150 (45.3)	1250 (49.2)	1270 (50)	1200 (47.2)	1300 (51.2)	1600 (63)	1860 (73.2)	-8 (-0.3)
H	mm (in)	2820 (111)	2650 (104.3)	2860 (112.6)	2780 (109.4)	2760 (108.7)	2820 (111)	2740 (107.9)	2530 (99.6)	2330 (91.7)	435 (17.1)
L	mm (in)	5380 (211.8)	5460 (215)	5380 (211.8)	5440 (214.2)	5460 (215)	5430 (213.8)	5490 (216.1)	5560 (218.9)	5770 (227.2)	425 (16.8)
M	mm (in)	1120 (44.1)	1310 (51.6)	1090 (42.9)	1160 (45.7)	1180 (46.5)	1120 (44.1)	1200 (47.2)	1470 (57.9)	1670 (65.7)	-32 (-1.2)
N	mm (in)	1700 (66.9)	1770 (69.7)	1670 (65.7)	1710 (67.3)	1720 (67.7)	1690 (66.5)	1730 (68.1)	1740 (68.5)	1730 (68.1)	363 (14.3)
V	mm (in)	2650 (104.3)	2650 (104.3)	2650 (104.3)	2650 (104.3)	2650 (104.3)	2750 (108.3)	2750 (108.3)	2750 (108.3)	3000 (118.1)	-
a1 clearance circle	mm (in)	11 860 (466.9)	12 000 (472.4)	11 840 (466.1)	11 890 (468.1)	11 900 (468.5)	11 950 (470.5)	12 010 (472.8)	12 200 (480.3)	12 600 (496.1)	-
Operating weight	kg (lb)	15 220 (33,560)	15 220 (33,570)	15 040 (33,150)	15 270 (33,670)	15 310 (33,750)	15 020 (33,120)	15 390 (33,940)	15 510 (34,200)	15 940 (35,150)	246 (542)

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.

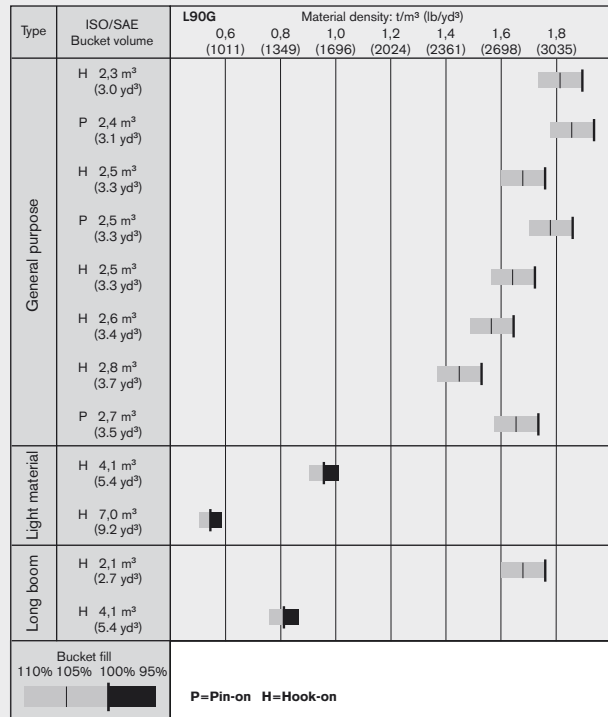
Example: Sand and gravel. Fill factor ~ 105%. Density 1,65 t/m³ (2,780 yd³). Result: The 2,5 m³ (3,3 yd³) bucket carries 2,6 m³ (3,4 yd³). For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m³ (lb/yd³)	ISO/SAE bucket volume, m³ (yd³)	Actual volume, m³ (yd³)
Earth/Clay	~ 110	~ 1,55 (2,610)	2,5 (3.3)	2,7 (3.5)
		~ 1,45 (2,440)	2,6 (3.4)	2,9 (3.8)
		~ 1,40 (2,360)	2,8 (3.7)	3,1 (4.0)
Sand/Gravel	~ 105	~ 1,65 (2,780)	2,5 (3.3)	2,6 (3.4)
		~ 1,55 (2,610)	2,6 (3.4)	2,7 (3.5)
		~ 1,50 (2,530)	2,8 (3.7)	2,9 (3.7)
Aggregate	~ 100	~ 1,75 (2,950)	2,5 (3.3)	2,5 (3.3)
		~ 1,65 (2,780)	2,6 (3.4)	2,6 (3.4)
		~ 1,60 (2,700)	2,8 (3.7)	2,8 (3.7)
Rock	≤100	~ 1,80 (3,030)	2,2 (2.9)	2,2 (2.9)

The size of rock buckets is optimized for optimal penetration and filling capability rather than the density of the material.

Supplemental Operating Data

Tires 20.5 R25 L2	Standard boom		Long boom
	650/65 R25		650/65 R25
Width over tires	mm (in)	+200 (+8)	+200 (+8)
Ground clearance	mm (in)	450 (17.7)	450 (17.7)
Tipping load, full turn	kg (lb)	+400 (+880)	+360 (+790)
Operating weight	kg (lb)	+600 (+1,320)	+600 (+1,320)



How to read bucket fill factor

EQUIPMENT.

STANDARD EQUIPMENT

	L60G	L70G	L90G
Service and maintenance			
Engine oil remote drain and fill	•	•	•
Lubrication manifolds, ground accessible	•	•	•
Pressure test ports: transmission and hydraulic, quick connects	•	•	•
Service platforms with anti-slip surfaces	•	•	•
CareTrack, GSM/Satellite	•	•	•
Toolbox, lockable	•		
Engine			
Exhaust after-treatment system	•	•	•
Three stage air cleaner, pre-cleaner, primary and secondary filter	•	•	•
Indicator glass for coolant level	•	•	•
Preheating of induction air	•	•	•
Fuel pre-filter with water trap	•	•	•
Fuel filter	•	•	•
Crank case breather oil trap	•	•	•
Muffler, spark-arresting	•	•	•
Exhaust heat ventilation	•	•	•
Electrical system			
24 V, pre-wired for optional accessories	•	•	•
Alternator 24V/120A	•	•	•
Battery disconnect switch with removable key	•	•	•
Batteries TA	•	•	•
Battery box, steel	•	•	•
Fuel gauge	•	•	•
Hour meter	•	•	•
Electric horn	•	•	•
Instrument cluster:			
Fuel level			
Transmission temperature	•	•	•
Coolant temperature			
Instrument lighting			
Lighting:			
Twin halogen front headlights with high and low beams			
Parking lights	•	•	•
Double brake and tail lights			
Turn signals with flashing hazard light function			
Halogen work lights (2 front and 2 rear)			
Forward camera, color	•	•	•
Rear view camera incl. Monitor, color	•	•	•
Contronic monitoring system			
Monitoring and logging of machine data	•	•	•
Contronic display	•	•	•
Fuel consumption	•	•	•
Ambient temperature	•	•	•
Clock	•	•	•
Test function for warning and indicator lights	•	•	•
Brake test	•	•	•
Warning and indicator lights:			
Battery charging	•	•	•
Parking brake			
Warning and display message:			
Engine coolant temperature			
Charge air temperature			
Engine oil temperature			
Engine oil pressure			
Transmission oil temperature			
Transmission oil pressure			
Hydraulic oil temperature			
Brake pressure	•	•	•
Parking brake applied			
Brake charging			
Overspeed at direction change			
Axle oil temperature			
Steering pressure			
Crank case pressure			
Attachment lock open			
Level warnings:			
Fuel level			
Engine coolant level	•	•	•
Transmission oil level			
Hydraulic oil level			
Engine torque reduction in case of malfunction indication:			
High engine coolant temperature			
High engine oil temperature	•	•	•
Low engine oil pressure			
High crank case pressure			
High charge air temperature			

	L60G	L70G	L90G
Engine shutdown to idle in case of malfunction indication:			
High transmission oil temperature	•	•	•
Slip in transmission clutches			
Key pad, background lit	•	•	•
Start interlock when gear is engaged	•	•	•
Drivetrain			
Automatic Power Shift	•	•	•
Fully automatic gear shifting, 1-4	•	•	•
PWM-controlled gear shifting	•	•	•
Forward and reverse switch by hydraulic lever console	•	•	•
Indicator glass for transmission oil level	•	•	•
Differentials: Front, 100% hydraulic diff. lock. Rear, conventional	•	•	•
Tires			
17.5R25	•		
20.5R25	•	•	•
Brake system			
Dual brake circuits	•	•	•
Dual brake pedals	•	•	•
Secondary brake system	•	•	•
Parking brake, electrical-hydraulic	•	•	•
Brake wear indicators	•	•	•
Outboard mounted oil circulation-cooled wet disc brakes on all four wheels	•	•	•
Cab			
ROPS (ISO 3471), FOPS (ISO 3449)	•	•	•
Single key kit door/start	•	•	•
Acoustic inner lining	•	•	•
Ashtray	•	•	•
Cigarette lighter, 24V power outlet	•	•	•
Lockable door	•	•	•
Cab heating with fresh air inlet and defroster	•	•	•
Fresh air inlet with two filters	•	•	•
Automatic heat control	•	•	•
Floor mat	•	•	•
Dual interior lights	•	•	•
Dual interior rearview mirrors	•	•	•
Dual exterior rearview mirrors	•	•	•
Sliding window, right side	•	•	•
Tinted safety glass	•	•	•
Retractable seatbelt (SAE J386)	•	•	•
Adjustable steering wheel	•	•	•
Storage compartment	•	•	•
Document pocket	•	•	•
Sun visor	•	•	•
Beverage holder	•	•	•
Windshield washer front and rear	•	•	•
Windshield wipers front and rear	•	•	•
Interval function for front and rear wipers	•	•	•
Foot step, left side (toolbox lockable included)	•	•	•
Foot step, right side	•	•	•
Hydraulic system			
Main valve, double acting 2-spool with hydraulic pilots	•	•	•
Variable displacement axial piston pumps (2) for:			
Working hydraulics, pilot hydraulics, steering system, brakes	•	•	•
Cooling fan, brakes			
Hydraulic control levers	•	•	•
Mechanical level lock	•	•	•
Boom kick-out, automatic, adjustable	•	•	•
Bucket positioner with position indicator, automatic, adjustable	•	•	•
Double acting hydraulic cylinders	•	•	•
Indicator glass for hydraulic oil level	•	•	•
Hydraulic oil cooler	•	•	•
External equipment			
Basic fenders, front and rear	•	•	•
Viscous cab mounts	•	•	•
Rubber engine and transmission mounts	•	•	•
Engine hood, electronically openable	•	•	•
Footsteps front frame	•	•	•
Footsteps, right-hand side	•	•	•
Frame, joint lock	•	•	•
Vandalism lock prepared for:			
Batteries	•	•	•
Engine compartment			
Engine Hood			
Lifting eyes	•	•	•
Tie down eyes	•	•	•
Tow hitch	•	•	•

EQUIPMENT.

OPTIONAL EQUIPMENT

	L60G	L70G	L90G
Service and maintenance			
Lubrication System	•	•	•
Oil sampling valve	•	•	•
Refill pump for automatic lubrication system	•	•	•
Tool kit	•	•	•
Wheel nut wrench kit	•	•	•
Engine			
Cooling package: Radiator, charge air cooler, hyd. oil cool, corr. prot.	•	•	•
Air pre-cleaner, cyclone type	•	•	•
Air pre-cleaner, oil-bath type	•	•	•
Air pre-cleaner, turbo type	•	•	•
Engine auto shut down	•	•	•
Engine block heater, 120V/550W	•	•	•
ESW, Disabled engine protection	•	•	•
Exhaust heat insulation	•	•	•
Fan air intake protection, extra close-meshed	•	•	•
Fuel heater	•	•	•
Fuel fill strainer	•	•	•
Hand throttle control	•	•	•
Max. fan speed, hot climate	•	•	•
Reversible cooling fan	•	•	•
High altitude kit, 2000 m up	•	•	•
Electrical			
Battery disconnect switch	•	•	•
Front Camera with attaching parts	•	•	•
Reduced function working lights when reverse gear activated	•	•	•
License plate holder, lighting	•	•	•
Rearview mirrors, adjustable, el. heated	•	•	•
Reverse alarm	•	•	•
Reverse lights	•	•	•
Reversing warning light	•	•	•
Reverse warning light, strobe lightning	•	•	•
Warning, collapsible, rotating beacon	•	•	•
Warning beacon, flashing strobe light	•	•	•
Working lights, attachments	•	•	•
Working lights front, high intensity discharge (HID)	•	•	•
Working lights front, on cab, dual	•	•	•
Working lights rear, on cab	•	•	•
Working lights rear, on cab, dual	•	•	•
Working lights front, extra	•	•	•
Cab			
ACC control panel, with Fahrenheit scale	•	•	•
Anchorage for Operator's manual	•	•	•
Armrest, operator's seat, ISRI, left only	•	•	•
Armrest, operator's seat, KAB, left only	•	•	•
Asbestos dust protection filter	•	•	•
Automatic Climate Control, ACC	•	•	•
Automatic Climate Control, ACC, corr. prot. Condenser	•	•	•
Cab air pre-cleaner, cyclone type	•	•	•
Carbon filter - cab	•	•	•
Fan for AC condenser	•	•	•
Foot steps, front frame	•	•	•
Forward view mirror	•	•	•
Lunch box holder	•	•	•
Operator's seat, ISRI, air susp., heat, high back	•	•	•
Operator's seat, ISRI, heated, high back	•	•	•
Operator's seat, ISRI, low back	•	•	•
Operator's seat, KAB, air susp., heavy-duty	•	•	•
Radio installation kit incl. 11 amp 12 volt outlet, left-side	•	•	•

	L60G	L70G	L90G
Radio installation kit incl. 11 amp 12 volt outlet, right-side	•	•	•
Radio installation kit, 20 amp, 12V	•	•	•
Radio with CD player	•	•	•
Rear view mirrors, el. adjusted and heated	•	•	•
Rear view mirrors, long arm right	•	•	•
Rear view mirrors, el. adjusted and heated, long arm right	•	•	•
Steering wheel knob	•	•	•
Sun blinds, rear windows	•	•	•
Sun blinds, side windows	•	•	•
Timer cab heating	•	•	•
Universal door/ignition key	•	•	•
Window, sliding, door	•	•	•
Drivetrain			
Diff. lock front 100%, limited slip rear	•	•	•
Speed limiter, 20 km/h (12 mph)	•	•	•
Speed limiter, 30 km/h (19 mph)	•	•	•
Speed limiter, 40 km/h (25 mph)	•	•	•
Brake system			
Stainless steel, brake lines	•	•	•
Parking brake alarm, audible	•	•	•
Hydraulic system			
Adjustable flow for 3rd hydraulic function	•	•	•
Arctic kit: Locking and pilot hoses, Accumulators and hydraulic oil	•	•	•
Attachment bracket, cast, visibility-optimized	•	•	•
Attachment bracket, side-tilting	•	•	•
Boom suspension system with single acting lifting function	•	•	•
Detent for 3rd hydraulic function	•	•	•
HD LS hydraulics, pump kit included	•	•	•
Hydraulic fluid, biodegradable, Volvo	•	•	•
Hydraulic fluid, fire resistant	•	•	•
Hydraulic fluid, for hot climate	•	•	•
Hydraulic function, 3rd	•	•	•
Hydraulic function, 3rd-4th	•	•	•
Separate attachment locking, long boom	•	•	•
Separate attachment locking, standard boom	•	•	•
Single acting lifting function	•	•	•
Single lever control	•	•	•
Single lever control for 3rd hydr. Function	•	•	•
External equipment			
Deleted front mudguards	•	•	•
Fire suppression system	•	•	•
Fire extinguisher	•	•	•
Bracket for fire extinguisher	•	•	•
Mudguards for 80-series tires			
Mudguards, full cover, rear for 80-series tires	•	•	•
Mud flap kit for mudguards, full cover for 80-series tires	•	•	•
Mudguards for 65-series tires			
Mudguards, basic, short, rear and front/rear for 65-series tires	•	•	•
Mudguards, full cover, rear and front/rear for 65-series tires	•	•	•
Mud flap kit for mudguards, full cover for 65-series tires	•	•	•
Footsteps front frame	•	•	•
Footsteps, right-hand side	•	•	•
Flexible rear step	•	•	•
Cab ladder, rubber suspended	•	•	•
Protective equipment			
Anti-theft device	•	•	•
Bellyguard front	•	•	•
Bellyguard rear	•	•	•
Boom cylinder hose and tube guards	•	•	•
Cab roof, heavy duty	•	•	•
Center hinge and rear frame guard	•	•	•
Corrosion protection, painting	•	•	•
Cover plate front fram, heavy-duty	•	•	•
Cover plate, under cab	•	•	•

OPTIONAL EQUIPMENT

	L60G	L70G	L90G
Cover plates rear frame	•	•	•
Exterior radiator air intake protection	•	•	•
Guards for front head lights	•	•	•
Guards for grease nipples		•	•
Guards for radiator grill	•	•	•
Guards for tail lights	•	•	•
Guards for tail lights, heavy-duty	•	•	•
Wheel/axle seal guards	•	•	•
Windows, side and rear guards	•	•	•
Windshield guard	•	•	•
Other equipment			
Comfort Drive Control (CDC)	•	•	•
Counterweight, logging	•	•	•
Noise reduction kit, Blauer Engel incl. Decal	•	•	•
Secondary steering	•	•	•
Sign, 50 km/h	•	•	•
Sign, slow moving vehicle	•	•	•
Year of manufacturing-plate	•	•	•
Tires and Rims			
17.5R25	•		
20.5R25	•	•	•
600/65R25	•	•	
650/65R25			•
Attachments			
Buckets:			
Straight			
Spade nose	•	•	•
High tipping			
Light material			
Grading			
Wear parts:			
Bolt-on edge	•	•	•
Bolt-on or weld-on bucket teeth			
Segments			
Log grapples	•	•	•
Fork equipment	•	•	•
Material handling arm	•	•	•
Snow blade	•	•	•
Broom	•	•	•
Sand spreading bucket	•	•	•
Bale clamp	•	•	•
Drum rotator	•	•	•

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Boom Suspension System



Comfort Drive Control (CDC)



Automatic Lubrication System



Single Hydraulic Lever



VOLVO CONSTRUCTION EQUIPMENT

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