VOLVO

Volvo Wheel Loaders 14.5-17.3 t / 31,970-38,140 lb 184 hp

L90H

Volvo Construction Equipment

L90H

Leave the heavy-duty work for the L90H, designed to do more, be more comfortable and help you increase your productivity.

Designed to do more

Hard work has never felt so easy. H-Series wheel loaders are built with an industry leading, strong frame, which, combined with the ideally-matched genuine Volvo drivetrain, achieves long-lasting performance. And with the help of a range of smart apps you can boost the efficiency of your operation from the comfort of the cab.

Loaded with versatility

- Torque Parallel linkage
- Volvo attachment bracket
- Range of purpose-built attachments
- Rehandling bucket
- 3rd and 4th hydraulic functions

Keep it moving

- Quick hydraulic oil fill thanks to new mounted nipple
- Improved cooling capacity
- Strong frame and central hinge
- Standard delayed engine shutdown
- Optional external axle coolingn
- Optional Load Assist Tire Pressure monitoring

Safety as standard

- Anti-slip steps and strategically placed handrails
- Orange three-point seatbelt
- Redesigned side mirrors
- Rear-view camera

Strong and stable

- Optimized loading unit weight, heavyduty counterweight for greater stability
- Standard electro-servo controls
- Auto Bucket leveling function
- Increased lifting height by 72 mm (2.83 in)
- Lifetime Frame warranty

Increased productivity

- Optional lock-up converter
- Rimpull control
- Smart Control
- Smooth Control
- Eco pedal
- Load Assist On-Board Weighing hardware- Standard
- Load Assist Operator Coaching - Standard

Greater access

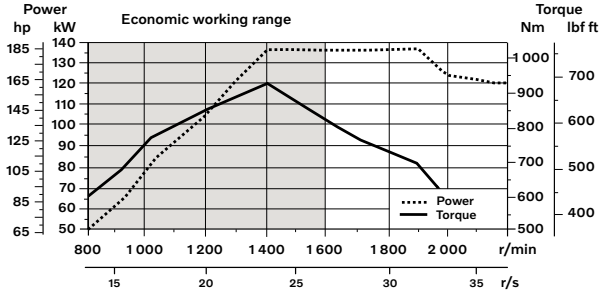
- Cooler installation slides out for easier cleaning
- Repositioned fill spouts for transmission and engine oil
- Ground-level access to service points
- Electronically-operated engine hood

Volvo L90H in detail

Engine

6-cylinder, 6 liter 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 highpressure pipes to the electronically operated fuel injectors. Engine meets Tier 4f / EU Stage V emission legislation.

Engine	Volvo	D6J
Max. power at	rpm (rps)	1,400 - 1,900 (23.3 - 31.7)
ISO 14396 gross	kW (hp)	137 (184)
ISO 9249, SAE J1349 net	kW (hp)	137 (184)
Max. torque at	rpm (rps)	1,400 (23,3)
ISO 14396 gross	Nm (lbf ft)	934 (689)
ISO 9249, SAE J1349 net	Nm (lbf ft)	934 (689)
Economic working range	rpm (rps)	800 - 1,600 (13.3 - 26.7)
Displacement	lit (in^3)	5.7 (348)



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, etc.

Batteries	V	2 x 12
Battery capacity	Ah	2 x 110
Cold cranking capacity, approx	A	1.000
Alternator rating	W/A	3,640 / 130
Starter motor output	kW	55

Brake System

Service brake: Volvo dual-circuit system with outboard mounted, hydraulically operated, fully sealed and circulating oil cooled wet disc brakes. Four operator selectable transmission disengagement settings while braking.
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.
Standard: The brake system complies with the requirements of ISO 3450, 71/320/EEC

Number of brake discs per wheel		1
Accumulators	lit (gal.)	2 x 0.5 + 1 x 1.0 (2 x 0.13 + 1 x 0.26)
Accumulators for parking brake	lit (gal.)	1 x 1.0 (1 x 0.26)

Lift Arm System

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

Lift cylinders		2
Lift cylinder bore	mm (in)	120 (4.7)
Lift cylinder piston rod diameter	mm (in)	70 (2.8)
Lift cylinder stroke	mm (in)	744 (28.9)
Tilt cylinder		1
Tilt cylinder bore	mm (in)	180 (7.1)
Tilt cylinder piston rod diameter	mm (in)	90 (3.5)
Tilt cylinder stroke	mm (in)	430 (16.9)

Steering System

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

Steering cylinders		2
Cylinder bore	mm (in)	80 (3.1)
Rod diameter	mm (in)	50 (2)
Stroke	mm (in)	345 (13.6)
Working pressure	MPa (bar)	21 (210)
Maximum flow	L/min (gal/min)	60 (15.9)
Maximum articulation	±°	40

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 manual settings (11 speeds). Defroster vents for all window areas.
Operator's seat: Operator's seat with adjustable air 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.
Standards: The cab is tested and approved according to ROPS (ISO 3471, SAE J1040), FOPS (ISO 3449). The cab meets with requirements according to SAE J386 („Operator Restraint System"). Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO_2-eq.

Emergency exit: Use emergency hammer to break window

Ventilation	m^3/min (yd^3/min)	9 (11.8)
Heating capacity	kW	16
Air conditioning (optional)	kW	7.5

Sound Level

Sound level in cab according to ISO 6396 - L_{pA}	dB	68
External sound level (ISO 6395 and EU Noise Directive 2000/14/EC) - L_{WA}	dB	105

Service Refill

Service accessibility: Large, electrically operated easy-to-open hood covering whole engine compartment. Fluid filters and component breather air filters are located from ground level access and promote long service intervals. Machine contronics have possibility to monitor, log and analyze data to facilitate troubleshooting. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill.

Fuel tank	lit (gal.)	222 (58.6)
DEF/AdBlue® tank	lit (gal.)	20 (5.3)
Engine coolant	lit (gal.)	30 (7.9)
Hydraulic oil tank	lit (gal.)	90 (23.8)
Transmission oil (non lock-up)	lit (gal.)	21 (5.5)
Transmission oil (lock-up)	lit (gal.)	22 (5.8)
Engine oil	lit (gal.)	20 (5.2)
Axle oil front	lit (gal.)	35 (9.2)
Axle oil rear	lit (gal.)	27 (7.1)

Hydraulic System

Closed center load sensing hydraulic system with non pressurised hydraulic tank and pilot operated control valves.
System supply: Variable displacement axial piston pump supply the hydraulic system.
Valves: The central valve distributes pressure and flow out to the cooling fan, steering, brake, pilot and hydraulic system. Steering system gets priority over others.
Lift function: The valve has four positions; raise, hold, lower and float position. Automatic boom kickout position can be set to any position between maximum reach and full lifting height.
Tilt function: The valve has three functions; rollback, hold and dump. Automatic tilt out/tilt in 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.

Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa (bar)	31 (310)
Flow	L/min (gal/min)	171 (45.2)
at	MPa (bar)	10 (100)
engine speed	rpm (rps)	1,900 (31.7)
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa (bar)	21 (210)
Flow	L/min (gal/min)	33 (8.7)
at	MPa (bar)	10 (100)
engine speed	rpm (rps)	1,900 (31.7)
Pilot system, working pressure	MPa (bar)	3.5 (35)
Cycle times		
Lift	s	5.7
Tilt	s	2.3
Lower, empty	s	4
Total cycle time	s	12

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. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.
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.

Transmission		HTE 125C Non Lock-up / HTE 125 Lock-up
Torque multiplication, stall ratio		2.5:1 Non Lock-up / 2.59:1 Lock-up
Maximum speed, forward/reverse		
1st gear - Converter	km/h (mph)	6.5 (4)
1st gear - Lock-up	km/h (mph)	6.5 (4)
2nd gear - Converter	km/h (mph)	14 (8.6)
2nd gear - Lock-up	km/h (mph)	14 (8.6)
3rd gear - Converter	km/h (mph)	26 (16.2)
3rd gear - Lock-up	km/h (mph)	27 (16.8)
4th gear - Converter	km/h (mph)	46 (28.5)
4th gear - Lock-up	km/h (mph)	50 (31.1)
4th gear: Shown in speedometer and limited by ECU		
Measured with tires		20.5R25
Front axle/rear axle		AWB 25/ AWB 20
Rear axle oscillation	±°	13
Ground clearance	mm (in)	470 (18.5)
at oscillation	°	13

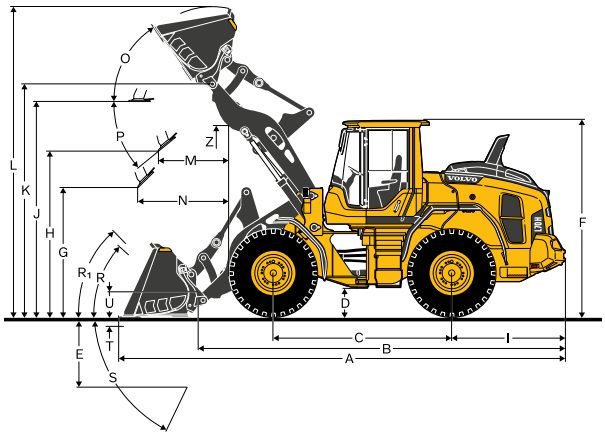
Specifications

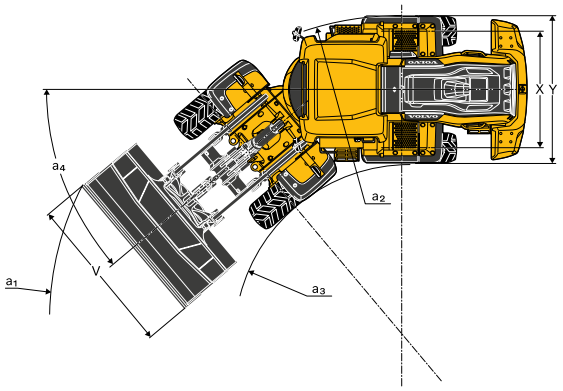
Tires 20.5 R25 L3						
			L90H			
			Standard boom		Long boom	
B	mm	ft in	6,170	20‘3“	6,600	21‘8“
C	mm	ft in	3,050	10‘0“	3,050	10‘0“
D	mm	ft in	450	1‘6“	440	1‘5“
F	mm	ft in	3,280	10‘9“	3,270	10‘9“
G	mm	ft in	2,132	7‘0“	2,132	7‘0“
I	mm	ft in	1,880	6‘2“	1,880	6‘2“
J	mm	ft in	3,730	12‘3“	4,140	13‘7“
K	mm	ft in	4,040	13‘3“	4,460	14‘8“
O	°		57		58	
P_{max}	°		45		44	
R	°		44		47	
R_1*	°		49		53	
S	°		67		65	
T	mm	ft in	112	0‘4“	123	0‘5“
U	mm	ft in	480	1‘7“	570	1‘10“
X	mm	ft in	1,960	6‘5“	1,960	6‘5“
Y	mm	ft in	2,490	8‘2“	2,490	8‘2“
Z	mm	ft in	3,460	11‘4“	3,910	12‘10“
a_2	mm	ft in	5,430	17‘10“	5,430	17‘10“
a_3	mm	ft in	2,940	9‘8“	2,940	9‘8“
a_4	±°		40		40	

* Carry position SAE

Calculated with additional protective guarding

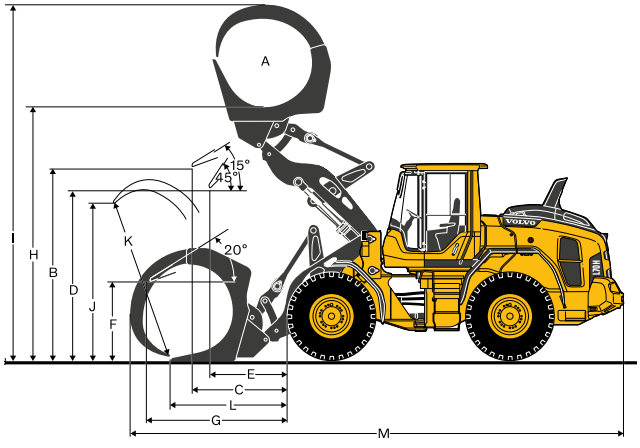
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818





Tires: 20.5R25 L3				
			L90H	
SAE-Load	kg	lb	4,600	10,141
Operating weight without load*	kg	lb	16,645	36,696
Grapple sales code			WLA80832	
A	m^2	yd^2	2.4	2.9
B	mm	ft in	3,487	11‘5“
C	mm	ft in	1,703	5‘7“
D	mm	ft in	2,865	9‘5“
E	mm	ft in	1,319	4‘4“
F	mm	ft in	1,441	4‘9“
G	mm	ft in	2,740	8‘12“
H	mm	ft in	4,613	15‘2“
I	mm	ft in	6,664	21‘10“
J	mm	ft in	2,786	9‘2“
K	mm	ft in	2,990	9‘10“
L	mm	ft in	2,131	6‘12“
M	mm	ft in	8,469	27‘9“

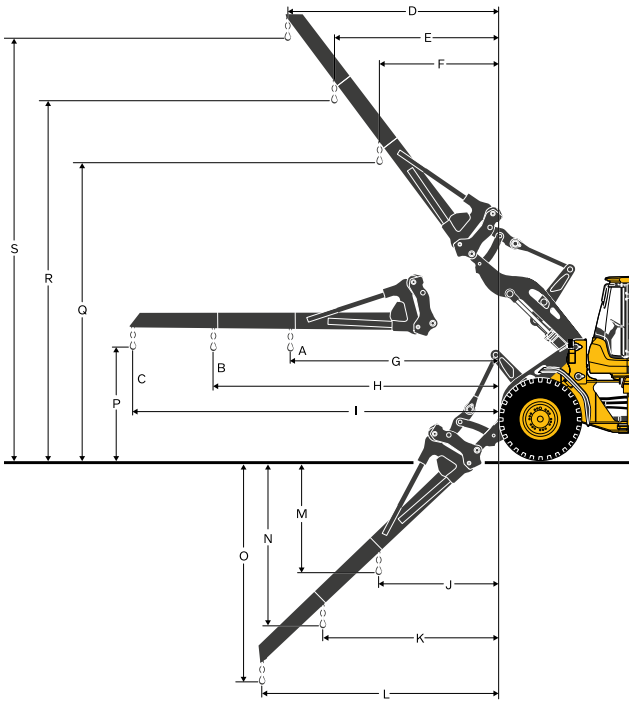
* Calculated with additional protective guarding



Tires: 20.5R25 L3				
			L90H	
Material handling arm sales code			92008	
A*	kg	lb	2,760	6,085
B*	kg	lb	2,130	4,696
C*	kg	lb	1,740	3,836
Static tipping load, straight	kg	lb	4,289	9,456
35deg. Turn	kg	lb	3,834	8,453
at full turn	kg	lb	3,700	8,157
D	mm	ft in	2,486	8‘2“
E	mm	ft in	1,894	6‘3“
F	mm	ft in	1,301	4‘3“
G	mm	ft in	3,253	10‘8“
H	mm	ft in	4,387	14‘5“
I	mm	ft in	5,520	18‘1“
J	mm	ft in	1,339	4‘5“
K	mm	ft in	1,889	6‘2“
L	mm	ft in	2,439	8‘0“
M	mm	ft in	2,051	6‘9“
N	mm	ft in	3,043	9‘12“
O	mm	ft in	4,034	13‘3“
P	mm	ft in	1,520	5‘0“
Q	mm	ft in	5,403	17‘9“
R	mm	ft in	6,370	20‘11“
S	mm	ft in	7,336	24‘1“
Operating weight without load	kg	lb	14,833	32,701

* Op. load at full turn + tipping position
Tipping loads calculated for max. arm length

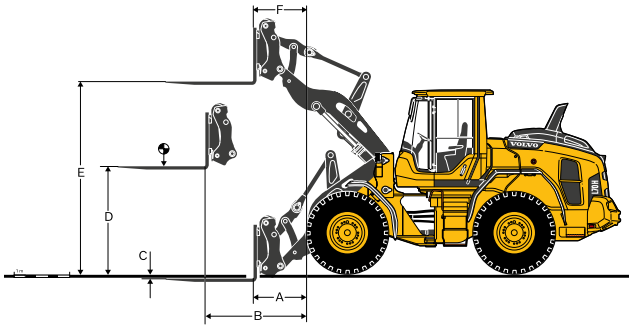
**Calculated with additional protective guarding



Tires: 20.5R25 L3				
			L90H	
Fork frame sales code			83770	
Fork tines sales code (R/L)			80106/80107	
Static tipping load, straight	kg	lb	8,904	19,630
35deg. Turn	kg	lb	7,947	17,520
at full turn	kg	lb	7,664	16,896
at load center distance*	mm	ft in	600	2‘0“
A	mm	ft in	932	3‘1“
B	mm	ft in	1,679	5‘6“
C	mm	ft in	-4	-1‘12“
D	mm	ft in	1,800	5‘11“
E	mm	ft in	3,841	12‘7“
F	mm	ft in	641	2‘1“
Operating weight without load	kg	lb	14,928	32,911

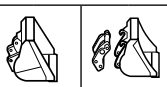
* Firm and level ground

**Calculated with additional protective guarding



Specifications

L90H

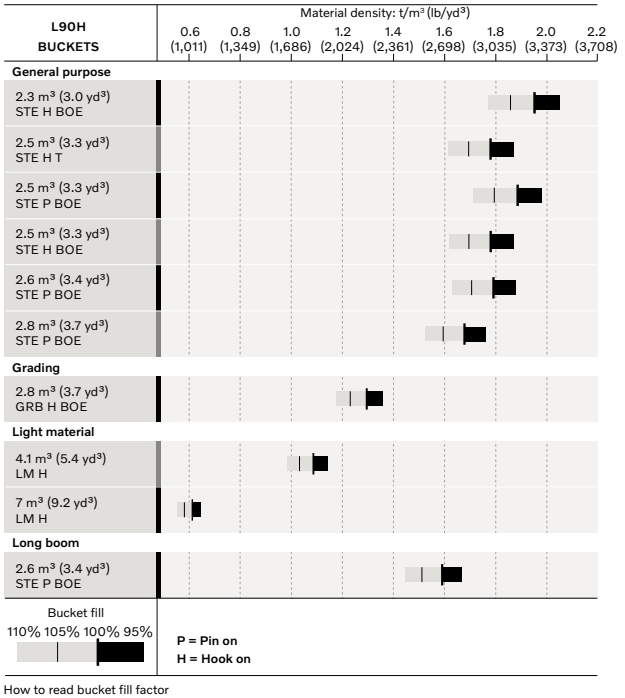
Tires 20.5 R25 L3				REHANDLING [1]				GENERAL PURPOSE								GRADING		LIGHT MATERIAL				LONG BOOM [3]	
																						-	
				WLA5404923 9		WLA5404920 9		WLA86299		WLA86301		WLA86320		WLA86304		WLA85404		WLA92687		WLA92683		WLA86320	
				2.9 m³ (3.8 yd³) STE P BOE		2.9 m³ (3.8 yd³) STE H BOE		2.3 m³ (3.0 yd³) STE H T		2.5 m³ (3.3 yd³) STE H BOE		2.8 m³ (3.7 yd³) STE P BOE		2.8 m³ (3.7 yd³) STE H BOE		2.8 m³ (3.7 yd³) GRB H BOE		4.1 m³ (5.4 yd³) LM H BOE		7.0 m³ (9.2 yd³) LM H BOE		2.8 m³ (3.7 yd³) STE P BOE	
Volume, heaped ISO/SAE	m³	yd³	3.0	3.9	3.0	3.9	2.2	2.9	2.5	3.3	2.8	3.7	2.8	3.7	2.8	3.7	4.1	5.4	7.0	9.2	-	-
Volume at 110% fill factor	m³	yd³	3.3	4.3	3.3	4.3	2.4	3.2	2.8	3.6	3.1	4.0	3.1	4.0	3.1	4.0	4.5	5.9	7.7	10.1	-	-
Static tipping load, straight	kg	lb	12,540	27,650	11,910	26,260	11,630	25,650	11,290	24,900	11,780	25,980	11,180	24,640	9,120	20,110	10,670	23,530	10,390	22,900	-1,890	-4,170
at 35° turn	kg	lb	11,120	24,510	10,530	23,220	10,340	22,800	10,010	22,070	10,460	23,070	9,900	21,830	8,060	17,770	9,420	20,770	9,110	20,090	-1,730	-3,810
at full turn	kg	lb	10,700	23,590	10,120	22,330	9,960	21,950	9,630	21,240	10,070	22,210	9,520	21,000	7,740	17,080	9,050	19,950	8,740	19,270	-1,680	-3,700
Breakout force	kN	lbf	131.2	29,510	121	27,210	146.6	32,950	133.2	29,960	137.8	30,970	126.6	28,470	92.3	20,760	100.7	22,630	87.1	19,580	+1.8	+410
A Overall length	mm	ft in	7,660	25'1"	7,770	25'6"	7,700	25'3"	7,620	25'0"	7,590	24'11"	7,700	25'3"	8,180	26'10"	8,050	26'5"	8,350	27'5"	+410	+1'4"
E Digging depth, max dump (S)	mm	ft in	1,240	4'1"	1,340	4'5"	1,290	4'3"	1,220	4'0"	1,180	3'11"	1,280	4'3"	1,770	5'10"	1,600	5'3"	1,860	6'1"	0	+0'0"
H [2] Dump clearance	mm	ft in	2,860	9'4"	2,780	9'1"	2,820	9'3"	2,880	9'5"	2,900	9'6"	2,830	9'3"	2,400	7'10"	2,600	8'6"	2,400	7'11"	+430	+1'5"
L Overall operating height	mm	ft in	5,530	18'2"	5,600	18'4"	5,300	17'5"	5,360	17'7"	5,380	17'8"	5,450	17'10"	4,890	16'1"	5,630	18'6"	5,830	19'2"	+420	+1'5"
M [2] Dump reach	mm	ft in	1,040	3'5"	1,120	3'8"	1,080	3'6"	1,020	3'4"	,990	3'3"	1,070	3'6"	1,210	4'0"	1,350	4'5"	1,560	5'1"	-50	-0'2"
N [2] Reach at 45° discharge, pos. G	mm	ft in	1,680	5'6"	1,710	5'7"	1,700	5'7"	1,680	5'6"	1,660	5'5"	1,700	5'7"	1,520	5'0"	1,710	5'7"	1,700	5'7"	+360	+1'2"
V Bucket width	mm	in	2,750	108"	2,750	108"	2,750	108"	2,750	108"	2,750	108"	2,750	108"	2,880	113"	2,750	108"	3,000	118"	0	+0'0"
a_1 Outer clearance circle (diameter)	mm	ft in	12,280	40'3"	12,330	40'5"	12,290	40'4"	12,240	40'2"	12,240	40'2"	12,290	40'4"	12,980	42'7"	12,500	41'0"	12,920	42'4"	+340	+1'1"
Operating weight without load	kg	lb	15,710	34,650	15,940	35,150	15,130	33,360	15,280	33,690	15,120	33,330	15,350	33,840	15,450	34,070	15,600	34,410	16,030	35,360	+270	+610

(1) Measured with additional counterweight.
(2) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle.
Note: This only applies to genuine Volvo attachments.

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 1.55 t/m³ (2,610 lb/yd³).
Result: The 2.6m³ (3.4yd³) bucket carries 2.7m3 (3.5 yd³). For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density		ISO/SAE bucket volume		Actual volume	
		t/m³	lb/yd³	m³	yd³	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



How to read bucket fill factor

Supplemental Operating Data

Tires 20.5 R25 L3			Standard boom						Long boom	
			20.5 R25 L2 *		650/65 R25 L3		750/65 R26		650/65 R25 L3	
Width over tires	mm	ft in	0	0	+160	+6.3	+390	+15.4	+160	+6.3
Ground clearance	mm	ft in	-10	-0.4	0	0	+50	+2.0	0	0
Tipping load, full turn	kg	lb	+60	+130	+290	+640	-90	-200	+250	+550
Operating weight	kg	lb	+80	+180	+540	+1,190	+40	+90	+540	+1,190

* Snow tires

Equipment

STANDARD EQUIPMENT
Engine
Exhaust after-treatment system
3-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
Exhaust heat ventilation
Wheels and tires
20.5R25
Drivetrain
Automatic Power Shift
Fully automatic gear shifting, 1-4
PWM-controlled gear shifting
Forward and reverse switch by hydraulic lever console
Rimpull control
Indicator glass for transmission oil level
Differentials: Front, 100% hydraulic diff lock. Rear, conventional
Electrical system
24 V, pre-wired for optional accessories
Alternator 80A/3135W
Battery disconnect switch
Maintenance-free batteries
Battery box, steel
Fuel gauge
Electric horn
Instrument cluster:
Fuel level
Diesel Exhaust Fluid/AdBlue 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)
Co Pilot available
Rearview camera in Co pilot
Max Boom height

STANDARD EQUIPMENT
Contronic monitoring system
Contronic display
Fuel consumption
Diesel Exhaust Fluid/AdBlue 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:
Regeneration
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
Diesel Exhaust Fluid/AdBlue level
Engine coolant level
Transmission oil level
Hydraulic oil level
Washer fluid 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
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
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 hydraulic lever lock
Automatic boom kick-out
Automatic bucket positioner
Double acting hydraulic cylinders
Indicator glass for hydraulic oil level
Hydraulic oil cooler
Brake system
Dual brake circuits
Dual brake pedals
Secondary brake system
Parking brake, electrical-hydraulic
Brake wear indicators
Outboard mounted circulating oil cooled wet disc brakes on all four wheels

Equipment

STANDARD EQUIPMENT

Cab

- Volvo Copilot with Rearview camera standard
- ROPS (ISO 3471), FOPS (ISO 3449)
- Single key kit door/start
- Acoustic inner lining
- Cigarette lighter, 24 V 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
- Interior rearview mirrors
- Dual exterior rearview mirrors
- Sliding window, right side
- Tinted safety glass
- Operator's seat, Comfort ISRI, 2pt seat belt
- 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)
- ACC control panel, with Fahrenheit scale
- Anchorage for Operator´s manual

Service and Maintenance

- Engine oil remote drain and fill
- Transmission oil remote drain and fill
- Sliding hydraulic oil cooler and AC-condenser
- Lubrication manifolds, ground accessible
- Pressure test ports: transmission and hydraulic, quick connects
- Service platforms with anti-slip surfaces
- Quick-fit hydraulic oil fill
- CareTrack
- Telematics, 6 -year subscription
- Toolbox, lockable

External equipment

- Basic fenders, front and rear
- Viscous cab mounts
- Rubber engine and transmission mounts
- Engine hood, electronically openable
- Frame, joint lock
- Vandalism lock for engine compartment
- Lifting eyes
- Tie down eyes
- Tow hitch
- Counterweight, pre-drilled for optional guards

OPTIONAL EQUIPMENT

Engine

- Air pre-cleaner, cyclone type
- Air pre-cleaner, oil-bath type
- Air pre-cleaner, turbo type
- Engine auto shut down
- Engine block heater, 120V / 230V
- Fuel heater
- Fuel fill strainer
- Hand throttle control
- Max. fan speed, hot climate
- Reversible cooling fan

Drivetrain

- Lock-up torque converter
- Rear axle with limited slip
- Speed limiter, 20 km/h
- Speed limiter, 30 km/h
- Speed limiter, 40 km/h

OPTIONAL EQUIPMENT

Hydraulic System

- Arctic kit: Attachment locking, pilot hoses and hydraulic oil
- Attachment bracket, cast, visibility-optimized
- Attachment bracket, side-tilting
- Separate attachment locking, long boom
- Separate attachment locking, standard boom
- Single acting lifting function
- Boom suspension system
- Hydraulic fluid, biodegradable, Volvo
- Hydraulic fluid, fire resistant
- Hydraulic fluid, for hot climate
- Hydraulic, 2 functions Electro-servo, std/long boom
- Hydraulic, 3 functions Electro-servo, std/long boom
- Hydraulic, 4 functions Electro-servo, std/long boom
- Single lever control, 2 funct Electro-servo, std/long boom
- Single lever control, 3 funct Electro-servo, std/long boom
- Single lever control, 4 funct Electro-servo, std/long boom

Brake system

- Parking brake alarm, audible
- Stainless steel, brake lines
- Axle oil cooler

Cab

- Asbestos dust protection filter
- Automatic Climate Control, ACC
- Automatic Climate Control, ACC, corrosion protection condenser
- Cab air pre-cleaner, cyclone type
- Carbon filter - cab
- Remote door opener
- Lunch box holder
- Operator's seat, Comfort ISRI, 3pt seat belt
- Operator's seat, Premium Comfort ISRI
- Operator's seat, Premium Comfort ISRI 3-point seat belt
- Armrest, operator's seat, ISRI, left only
- Safety belt, 3" (75mm) width
- Safety belt warning
- Radio installation kit including 12 volt outlet, left-side
- Radio installation kit including 12 volt outlet, right-side
- Radio with AUX, Bluetooth and USB connection
- DAB Radio
- Subwoofer
- Forward view mirror
- 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
- Cab, Hot applications. Roof, steel
- Outside steel protection cab
- Rear view mirrors long arm, cab
- Reinforced windshield, flat

Service and Maintenance

- Automatic lubrication system
- Automatic lubrication system for long boom
- Oil sampling valve
- Refill pump for automatic lubrication system
- Tool kit
- Wheel nut wrench kit

OPTIONAL EQUIPMENT

Electrical

- Battery disconnect switch, additional in cab
- Anti-theft device
- Emergency stop
- License plate holder, lighting
- Reduced function working lights when reverse gear activated
- Side marker lamps
- Forward camera, colour
- Rear view mirrors, long arm, right side
- Rearview mirrors, adjustable, el. heated
- Reverse alarm
- Reverse lights
- Reversing warning light
- Reverse warning light, strobe lightning
- Warning beacon (flasher), LED automatic
- Warning beacon (flasher), LED
- Seatbelt indicator, external
- Working lights, attachments, 1 LED
- Warning beacon LED
- Warning beacon LED automatic
- Halogen Economy package
- Halogen Feature package
- Halogen Power package
- Headlights, assymetric left, halogen
- Working lights, attachments, halogen
- LED Economy package
- LED Feature package
- LED Power package
- LED Intense package
- Can Bus Interface
- Delayed Engine Shutdown

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 of machine
- Cover plate front frame, heavy-duty
- Cover plate, under cab
- Cover plates rear frame
- Guards for front headlights
- Grease nipple guards
- Guards for radiator grill
- Guards for tail lights, heavy-duty
- Wheel/axle seal guards
- Window guards, side and rear
- Windshield guard

OPTIONAL EQUIPMENT

External equipment

- Deleted front mudguards
- Fire extinguisher
- Bracket for fire extinguisher
- Fire suppression system
- Mudguards, full cover, rear for 80-series tires
- Mudflap kit for mudguards, full cover for 80-series tires
- Mudguards, full cover, rear and front/rear for 65-series tires
- Mudflap kit for mudguards, full cover for 65-series tires
- Footsteps front frame
- Footsteps, right-hand side
- Flexible rear step
- Cab ladder, rubber suspended

Other equipment

- CareTrack, GSM/Satellite
- CE-marking
- Comfort Drive Control (CDC) Electro-servo
- Secondary steering
- Counterweight, logging
- Counterweight, signal painted, chevrons
- Option for machines without dinitrol
- Noise reduction kit, EU excluding decal
- Sign, 50 km/h
- Sign, slow moving vehicle

Tires and Rims

- 20.5R25
- 600/65R25
- 650/65R25
- 620/75R26 Agriculture application only
- 750/65R26 Agriculture application only

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

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice.
The illustrations do not necessarily show the standard version of the machine.

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