

V O L V O



Volvo Wheel Loaders 27.0-28.4 t / 59,525-62,611 lb 337 hp

L180

Volvo Construction Equipment

L180

Boost productivity and efficiency in rehandling, material handling, earthmoving and more. Faster cycle times, intelligent solutions, robust performance.



Fast cycle times



- Second generation load sensing hydraulics
- One of the highest hinge pin height in its class
- Increased hydraulic pump flow
- Bucket leveling function
- Entirely Volvo powertrain
- Reduced steps between gears for faster acceleration and smooth operation.
- Volvo Torque Parallel Linkage
- Volvo Attachments

Efficient and profitable operations



- Powerful and efficient engine
- Second generation OptiShift
- Direct lock-up gear change
- Reverse By Braking
- Smart control with reduced fuel consumption
- Attachment optimization
- External dry P-Brake, which eliminates drag losses
- Auto bucket fill
- Compatible with HVO

Boost productivity and efficiency with every load

Designed for maximum performance in a variety of segments including rehandling, material handling and earthmoving applications, the Volvo L180 Wheel Loader is your trusted partner for efficiency and reliability – building on a history of more than 70-years of Volvo Wheel Loader innovation. Engineered for fast cycle times, superior operator comfort and robust durability; take your productivity to the next level with intelligent features like Load Assist, On-Board Weighing, and Load Ticket, ensuring precision, uptime, and profitability.



The operator's choice

- Interactive, integrated Volvo Co-Pilot display
- Dynamic instrument cluster
- Comfort Drive Control (CDC)
- Customizable operator settings



Durable by design

- A durability leader in its class
- Outstanding uptime
- Volvo-renowned quality runs throughout every component
- Strong frame structure and robust axles, ideally matched to the Volvo powertrain
- Self-cleaning hydraulically driven cooling fan
- Outboard mounted brakes
- Front and rear axles are cooled by the oil circulation.



Ultimate performance across a range of segments

- Rehandling
- Block handling
- Log loading
- Slag handling
- Quarry / Aggregate
- Waste & Recycling
- And more...



Loaders and beyond

- Load Assist with On Board Weighing
- Load Ticket
- Connected Map with Performance Indicator
- Operator Coaching
- CareTrack telematics system



A new level in cab comfort

- Most comfortable and quietest cab on the market
- Enhanced storage options
- New armrest, new cupholder and USB chargers
- Extensive range of seats - including premium seats with heating and cooling functionality.



Industry leading serviceability

- Cab can be tilted to either a 30° or 70° angle
- Electronically operated engine hood
- Captive oil filters, captive fuel filters with electric pump
- Optional fast fuel fill
- Service light under the grille
- Brake wear indicators



Safety inside and out

- Excellent in-cab visibility and field of vision
- High definition rear view camera integrated in the Volvo Co-Pilot display
- Volvo Smart View with 360°
- Collision Mitigation System
- Battery disconnect/service switch with lockout/tagout
- Radar detect system
- Orange handrails
- Remote door opening
- Enhanced LED lighting packages
- New service platform

Fast cycle times

Achieve fast cycle times with second generation load sensing hydraulics, and one of the highest hinge pin heights in its class for increased dump clearance.

An increased hydraulic pump capacity and flow is designed to enhance the responsiveness of the hydraulic system and improve the lifting and lowering speed of the boom.

Boost productivity further with the bucket leveling function which automatically returns the bucket to level from both dump and curl positions, enhancing operator performance.

Fuel efficiency, lower emissions

Do more with less fuel, thanks to the industry-renowned fuel efficiency of Volvo Wheel Loaders.

Contributing to the fuel-efficient performance is Smart Control, powerful engine, second generation OptiShift, direct lock-up gear change, attachment optimization and external dry P-Brake, which eliminates drag losses.

What's more, the renewable synthetic diesel fuel, HVO (Hydro-treated Vegetable Oils), has been approved for use in Volvo Construction Equipment diesel engines with the potential to reduce CO₂ emissions by up to 90%.



Intuitive operator interface

Operators can stay in-the-know and focused on the task at hand thanks to all essential in-cab information conveniently displayed on just two screens.

The interactive, integrated Volvo Co-Pilot display offers easy control over essential functions such as media, camera settings, climate control and machine status.

This is combined with the dynamic instrument cluster, positioned in front of the steering wheel, which provides essential vehicle data at a glance.

Durable by design

A durability leader in its class, Volvo Wheel Loaders deliver outstanding uptime.

Volvo-renowned quality runs throughout every component, including a strong frame structure and robust axles, ideally matched to the Volvo powertrain.

Quality is synonymous with the Volvo brand, and has been central to the products we engineer and produce for more than 175 years; that is why we are passing that on to you through the Lifetime Frame and Structure Warranty.

The hydraulically driven cooling fan regulates component temperature and can be automatically reversed to permit self-cleaning of the cooling units.

For long service life, the brakes are outboard mounted and the front and rear axles are cooled by the oil circulation.

Safety first

Excellent in-cab visibility and field of vision is complemented by a host of safety-enhancing features including high definition rear view camera integrated in the Volvo Co-Pilot display, Collision Mitigation System and radar detect system that provides visual and audible alerts when encountering unseen objects.

Orange handrails and steps improve visibility for operators and maintenance staff, while automatic door opening allows the door to be opened with the key or button.

Ultimate performance across a range of applications

Get ready to achieve maximum results across a wide range of applications in the Volvo L180 thanks to a range of options and attachments which equip the machine to take on the unique challenges and requirements of your segment.

A comprehensive range of attachments designed to work in perfect harmony provide the ideal match of machine and attachment to succeed across applications including rehandling, log loading, slag handling, block handling and more.



Volvo L180 in detail

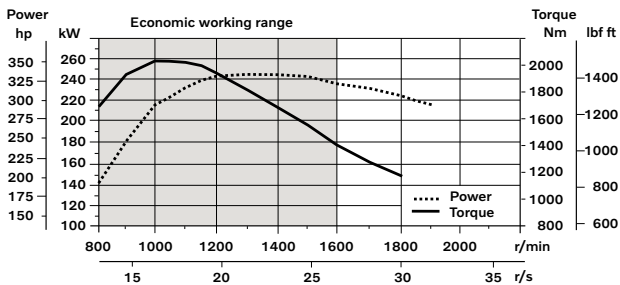
Engine

V-ACT Tier 4 Final, 13-liter (3.43 gal), 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft, and electronically controlled unit injectors. The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats. The throttle application is transmitted electrically either from the throttle pedal or the optional hand throttle.

Air cleaning: 2 stages.

Cooling system: Hydrostatic, electronically controlled fan and intercooler of the air-to-air type.

Engine	Volvo	D13J
Max. power at	rpm (rps)	1,300 - 1,400 (21.7 - 23.3)
ECE R120 net	kW (hp)	251 (337)
ISO 9249, SAE J1349 net	kW (hp)	250 (335)
Max. torque at	rpm (rps)	1,000 (16.7)
ECE R120 net	Nm (lbf ft)	2,071 (1,528)
ISO 9249, SAE J1349 net	Nm (lbf ft)	2,065 (1,523)
Economic working range	rpm (rps)	800 - 1,600 (13.3 - 26.7)
Displacement	lit (in ³)	12.8 (781)



Drivetrain

Torque converter: The single-stage torque converter with lockup and direct lockup shifting between gears provides seamless transitions and enhanced performance.

Transmission: The electronically controlled Volvo countershaft transmission features the Full Automatic Power Shift (FAPS) function, which offers fully automatic shifting in all four forward gears and from the second to the fourth gear in reverse. It is complemented by a mode selector with four gear-shifting programs. The Rimpull Control function helps prevent wheel spin and optimizes bucket filling. The single lever control and the Pulse Width Modulation (PWM) valves ensure effortless, fast, and smooth shifting, providing higher precision and reliability.

Axles: Volvo's fully floating drive shafts with planetary hub reductions and cast iron axle housing. The fixed front axle features a 100% differential lock, while the oscillating rear axle offers an optional limited-slip differential.

Transmission	HTL 223
Torque multiplication, stall ratio	2.09:1
Maximum speed, forward/reverse	
1st gear	km/h (mph) 6.1 (3.79)
2nd gear	km/h (mph) 12.6 (7.83)
3rd gear	km/h (mph) 23.5 (14.6)
4th gear	km/h (mph) 38.0 (23.6)
Measured with tires	26.5 R25 L3
Front axle/rear axle	Volvo/AWB 40B/40B
Rear axle oscillation	±° 15
Ground clearance	mm (in) 490 (19.3)
at oscillation	° 15

Electrical System

Central warning 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.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	2 x 170
Cold cranking capacity, approx	A	1,000
Alternator rating	W/A	3,640 / 130
Starter motor output	kW	7

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 disengagement of the transmission when braking using Contronic.

Parking brake: Dry disc brake. Applied by spring force, electro-hydraulic release 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.

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

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 CO₂-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	70
External sound level (ISO 6395 and EU Noise Directive 2000/14/EC) - L _{WA}	dB	108

Hydraulic System

System supply: Two load-sensing axial piston pumps with variable displacement. The steering function always has priority.

Valves: Double-acting 2-spool valve. The main valve is electro operated.

Lift function: The valve has four positions; raise, hold, lower and floating 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 including 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.

Working pressure maximum, pump 1 for working hydraulic system	MPa (bar)	29 (290)
Flow	l/min (gal/min)	252 (66.6)
at	MPa (bar)	10 (100)
engine speed	rpm (rps)	1,900 (31.7)
Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa (bar)	31 (310)
Flow	l/min (gal/min)	202 (53.4)
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)	25 (250)
Flow	l/min (gal/min)	83 (21.9)
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	6.4
Tilt	s	1.8
Lower, empty	s	3.3
Total cycle time	s	11.5

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.

Steering cylinders		2
Cylinder bore	mm (in)	100 (3.94)
Rod diameter	mm (in)	60 (2.36)
Stroke	mm (in)	525 (20.7)
Working pressure	MPa (bar)	21 (210)
Maximum flow	l/min (gal/min)	202 (53.4)
Maximum articulation	±°	37

Service Refill

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

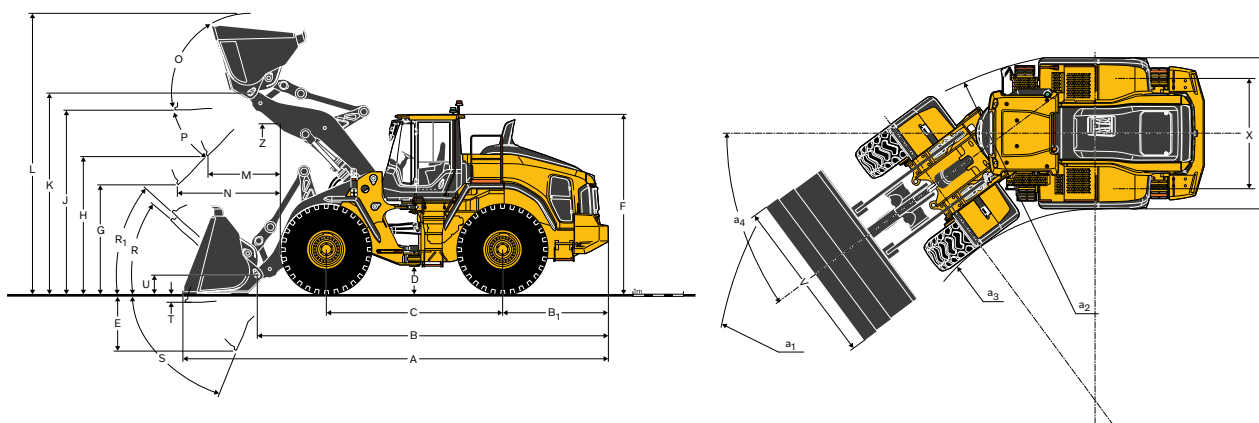
Fuel tank	lit (gal.)	366 (96.7)
DEF/AdBlue® tank	lit (gal.)	31 (8.19)
Engine coolant	lit (gal.)	55 (14.5)
Hydraulic oil tank	lit (gal.)	156 (41.2)
Transmission oil	lit (gal.)	48 (12.7)
Engine oil	lit (gal.)	50 (13.2)
Axle oil front	lit (gal.)	46 (12.2)
Axle oil rear	lit (gal.)	55 (14.5)

Lift Arm System

Torque Parallel linkage (TP-linkage) with high breakout torque and parallel action throughout the entire lifting range.

Lift cylinders		2
Lift cylinder bore	mm (in)	180 (7.09)
Lift cylinder piston rod diameter	mm (in)	90 (3.54)
Lift cylinder stroke	mm (in)	806 (31.7)
Tilt cylinder		1
Tilt cylinder bore	mm (in)	240 (9.45)
Tilt cylinder piston rod diameter	mm (in)	120 (4.72)
Tilt cylinder stroke	mm (in)	480 (18.9)

Specifications



DIMENSIONS

Tires: 26.5 R25 L3.

	Unit	L180			
		Standard boom		Long boom	
B Overall length w/o bucket / attachm. bracket	mm ft in	7,200	23'7"	7,630	25'0"
B ₁ Rear overhang	mm ft in	2,240	7'4"	2,240	7'4"
C Wheel base	mm ft in	3,550	11'8"	3,550	11'8"
D Ground clearance	mm ft in	490	1'7"	480	1'7"
F Height to top of ROPS	mm ft in	3,590	11'9"	3,580	11'9"
G Specific height for reach (N)	mm ft in	2,134	7'0"	2,134	7'0"
J Lift height under level bucket	mm ft in	4,170	13'8"	4,680	15'4"
K Height to hinge pin	mm ft in	4,590	15'1"	5,090	16'9"
O Rollback angle, max., fully raised	°	57		55	
P _{max} Dump angle, max., fully raised	°	46		46	
R Rollback angle, max., at ground level	°	44		48	
R ₁ * Rollback angle at SAE carry position	°	48		53	
S Digging angle, max.	°	71		63	
T Digging depth	mm in	134	5.3	216	8.5
U Hinge pin height at carrying position	mm ft in	570	1'10"	660	2'2"
X Track width	mm ft in	2,280	7'6"	2,280	7'6"
Y Machine width over tire	mm ft in	2,960	9'9"	2,960	9'9"
Z Max. load-over height	mm ft in	3,810	12'6"	4,170	13'8"
a ₂ Turning radius outer circle	mm ft in	6,790	22'3"	6,790	22'3"
a ₃ Turning radius inner circle	mm ft in	3,820	12'7"	3,820	12'7"
a ₄ Max. articulation	±°	37		37	

* Carry position SAE

Bucket: WLA87118 4.8 m³ (6.3 yd³) GP STE BOE

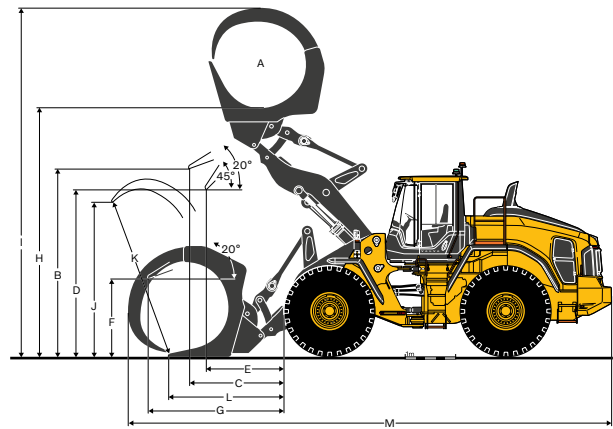
Grapples:

Sales code: WLA80027

Operating weight (incl. logging cw 1,140 kg (2,510 lb)): 29,200 kg (64,380 lb)

Operating load: 8,710 kg (19,200 lb)

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



DIMENSIONS

Tires: 775/65 R29 L3

		Unit		L180	
A	Grapple Area	m ²	yd ²	3.5	4.2
B	Dumping clearance at max. HPH, dump 20°	mm	ft in	3,980	13'1"
C	Dumping reach at max. HPH, dump 20°	mm	ft in	2,030	6'8"
D	Dumping clearance at max. HPH, dump 45°	mm	ft in	3,270	10'9"
E	Dumping reach at max. HPH, dump 45°	mm	ft in	1,600	5'3"
F	Dumping clearance at parallel lifting arm pos.	mm	ft in	1,700	5'7"
G	Dumping reach at parallel lifting arm pos.	mm	ft in	3,040	10'0"
H	Max. dumping clearance	mm	ft in	5,290	17'4"
I	Overall operating height	mm	ft in	7,730	25'4"
J	Height upper clamp at K	mm	ft in	3,370	11'1"
K	Max. opening width	mm	ft in	3,720	12'2"
L	Reach at ground position	mm	ft in	2,410	7'11"
M	Overall machine length	mm	ft in	9,990	32'9"

Specifications

L180

Tires 26.5 R25 L3			REHANDLING ⁽¹⁾								GENERAL PURPOSE						ROCK ⁽²⁾		LIGHT MATERIAL		LONG BOOM	
																						
			WLA86752	WLA86754	WLA86755	WLA86757	WLA87106	WLA87113	WLA87118	WLA87518	WLA92117											
			4.8 m ³ (6.3 yd ³) STE P BOE	5.2 m ³ (6.8 yd ³) STE P BOE	5.5 m ³ (7.2 yd ³) STE P BOE	5.8 m ³ (7.6 yd ³) STE H BOE	4.4 m ³ (5.8 yd ³) STE P T SEG	4.6 m ³ (6.0 yd ³) STE P T SEG	4.8 m ³ (6.3 yd ³) STE P BOE	4.2 m ³ (5.5 yd ³) SPN P T SEG	7.8 m ³ (10.2 yd ³) LM P BOE											
Volume, heaped ISO/SAE	m ³	yd ³	4.8	6.3	5.2	6.8	5.5	7.2	5.8	7.6	4.4	5.8	4.6	6	4.8	6.3	4.2	5.5	7.8	10.2	-	-
Volume at 110% fill factor	m ³	yd ³	5.3	6.9	5.7	7.5	6.1	7.9	6.4	8.3	4.8	6.3	5.1	6.6	5.3	6.9	4.6	6	8.6	11.2	-	-
Static tipping load, straight	kg	lb	23,820	52,530	23,710	52,270	23,540	51,910	22,600	49,830	21,720	47,900	21,650	47,740	21,650	47,740	22,760	50,190	20,650	45,540	-3,810	-8,400
at 35° turn	kg	lb	21,170	46,670	21,050	46,420	20,890	46,070	20,010	44,120	19,320	42,600	19,250	42,440	19,250	42,450	20,190	44,520	18,300	40,350	-3,480	-7,670
at full turn	kg	lb	20,860	46,010	20,750	45,750	20,590	45,400	19,710	43,460	19,050	42,000	18,970	41,840	18,980	41,850	19,900	43,870	18,030	39,760	-3,440	-7,580
Breakout force	kN	lbf	225	50,560	224	50,410	216	48,620	199	44,810	236	53,090	232	52,140	226	50,890	212	47,580	174	39,010	+4.0	+899
A Overall length	mm	ft in	8,900	29'2"	8,900	29'2"	8,970	29'5"	9,110	29'10"	9,010	29'7"	9,040	29'8"	8,890	29'2"	9,190	30'2"	9,360	30'9"	+470	+17"
E Digging depth, max dump (S)	mm	ft in	1,430	4'8"	1,430	4'8"	1,490	4'11"	1,620	5'4"	1,530	5'0"	1,560	5'1"	1,420	4'8"	1,690	5'6"	1,860	6'1"	+30	+0'1"
H ⁽³⁾ Dump clearance	mm	ft in	3,180	10'5"	3,170	10'5"	3,130	10'3"	3,110	10'2"	3,100	10'2"	3,080	10'1"	3,180	10'5"	2,990	9'10"	2,850	9'4"	+510	+1'8"
L Overall operating height	mm	ft in	6,220	20'5"	6,210	20'5"	6,280	20'7"	6,380	20'11"	6,220	20'5"	6,260	20'6"	6,290	20'8"	6,350	20'10"	6,420	21'1"	+510	+1'8"
M ⁽³⁾ Dump reach	mm	ft in	1,210	4'0"	1,210	4'0"	1,260	4'1"	1,450	4'9"	1,300	4'3"	1,320	4'4"	1,200	3'11"	1,410	4'7"	1,540	5'1"	-20	-0'11"
N ⁽³⁾ Reach at 45° discharge, pos. G	mm	ft in	1,960	6'5"	1,960	6'5"	1,990	6'6"	2,040	6'8"	2,010	6'7"	2,020	6'8"	1,960	6'5"	2,080	6'10"	2,050	6'9"	+410	+1'4"
V Bucket width	mm	in	3,200	125"	3,400	133"	3,400	133"	3,400	133"	3,200	125"	3,200	125"	3,200	125"	3,230	127"	3,400	133"	0	0
a ₁ Outer clearance circle (diameter)	mm	ft in	15,040	49'4"	15,230	50'0"	15,260	50'1"	15,330	50'4"	15,110	49'7"	15,120	49'7"	15,040	49'4"	15,240	50'0"	15,480	50'10"	+340	+1'1"
Operating weight without load	kg	lb	28,550	62,940	28,640	63,160	28,750	63,400	29,160	64,300	27,390	60,400	27,450	60,530	27,440	60,500	29,190	64,360	27,880	61,460	+310	+680

(1) Measured with additional counterweight.

(2) Measured with 26.5 R25 L5 tires.

(3) 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 1.6 t/m³ (2,697 lb/yd³).

Result: The 4.6 m³ (6.0 yd³) bucket carries 4.8 m³ (6.28 yd³). For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %		Material density		ISO/SAE bucket volume		Actual volume	
			t/m ³	lb/yd ³	m ³	yd ³	m ³	yd ³
Earth/Clay	~ 110		~1.7	~2,867	4.4	5.8	~4.8	~6.3
			~1.6	~2,698	4.6	6.0	~5.1	~6.7
			~1.5	~2,530	4.8	6.3	~5.3	~6.9
Sand/Gravel	~ 105		~1.7	~2,867	4.4	5.8	~4.6	~6.0
			~1.6	~2,698	4.6	6.0	~4.8	~6.3
			~1.5	~2,530	4.8	6.3	~5.1	~6.7
Aggregate	~ 100		~1.8	~3,035	5.2	6.8	~5.2	~6.8
			~1.7	~2,867	5.5	7.2	~5.5	~7.2
			~1.6	~2,698	5.8	7.6	~5.8	~7.6
Rock	≤100		~1.7	~2,867	4.3	5.6	~4.3	~5.6

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

Type of boom	Type of bucket	ISO/SAE Bucket volume	Material density: t/m ³ (lb/yd ³)							
			0,8 (1349)	1,0 (1686)	1,2 (2024)	1,4 (2361)	1,6 (2698)	1,8 (3035)	2,0 (3373)	
Standard boom	Rehandling*	5,2 m ³ (6.8 yd ³)					5,5 (7.2)	5,2 (6.8)		
		5,5 m ³ (7.2 yd ³)					5,8 (7.6)	5,5 (7.2)		
		5,8 m ³ (7.6 yd ³)				6,1 (8.0)	5,8 (7.6)			
	General purpose	4,4 m ³ (5.8 yd ³)					4,8 (6.3)	4,4 (5.8)		
Long boom	Rehandling*	4,6 m ³ (6.0 yd ³)					5,1 (6.7)	4,6 (6.0)		
		4,8 m ³ (6.3 yd ³)					5,3 (6.9)	4,8 (6.3)		
		4,2 m ³ (5.5 yd ³)						4,2 (5.5)	4,0 (5.2)	
	Light material	7,8 m ³ (10.0 yd ³)	7,8 (10.0)							
Long boom	Rehandling*	4,8 m ³ (6.3 yd ³)					5,0 (6.5)	4,8 (6.3)		
		5,2 m ³ (6.8 yd ³)					5,5 (7.2)	5,2 (6.8)		
		4,4 m ³ (5.8 yd ³)					4,8 (6.3)	4,4 (5.8)		
	General purpose	4,2 m ³ (5.5 yd ³)						4,2 (5.5)	4,0 (5.2)	
Long boom	Rock	7,8 m ³ (10.0 yd ³)	7,8 (10.0)							
	Light material	7,8 m ³ (10.0 yd ³)	7,8 (10.0)							
Bucket fill			Pin-on							
110% 105% 100% 95%										

How to read bucket fill factor

* Including counterweight

SUPPLEMENTAL OPERATING DATA

Tires 26.5 R25 L3	Unit		Standard boom						Long boom					
			26.5 R25 L4	26.5 R25 L5	775/65 R29 L3	26.5 R25 L4	26.5 R25 L5	775/65 R29 L3	26.5 R25 L4	26.5 R25 L5	775/65 R29 L3	26.5 R25 L4	26.5 R25 L5	775/65 R29 L3
Width over tires	mm	in	+10	+0.4	+30	+1.2	+170	+6.7	+10	+0.4	+30	+1.2	+170	+6.7
Ground clearance	mm	in	+20	+0.8	+30	+1.2	+10	+0.4	+20	+0.8	+30	+1.2	+10	+0.4
Tipping load, full turn	kg	lb	+350	+770	+800	+1,760	+590	+1,300	+300	+660	+670	+1,480	+510	+1,120
Operating weight	kg	lb	+490	+1,080	+1,470	+3,240	+770	+1,700	+490	+1,080	+1,470	+3,240	+770	+1,700

Equipment

STANDARD EQUIPMENT

Engine

Exhaust after-treatment system
Two stage air cleaner, primary and secondary filter
Preheating of induction air
Fuel pre-filter with water trap
Fuel filter
Electric fuel prime pump
Crankcase breather oil trap
Exterior radiator air intake protection

Drivetrain

Automatic Power Shift
Fully automatic gearshifting, 1-4
PWM-controlled gearshifting
Forward and reverse switch by hydraulic lever console
Rimpull control
Smart control
Indicator glass for transmission oil level
Differentials: Front, 100% hydraulic diff lock. Rear, conventional.
Optishift with Lock-up, RBB
Lock-up first gear

Electrical system

24V, pre-wired for optional accessories
12.8-inch High Definition vertical Co-Pilot display
Alternator 24V/130A/3479W
Battery disconnect (service) switch
Electric horn
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)
Dual LED reversing strobe lights
8-inch dynamic instrument cluster display
Fuel consumption
Diesel Exhaust Fluid/AdBlue consumption
Ambient temperature

STANDARD EQUIPMENT

Dynamic Instrument Cluster

Clock
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
Crankcase pressure
Attachment lock open
Safety Belt Warning
Level warnings:
Fuel level
Diesel Exhaust Fluid/AdBlue level
Engine oil level
Engine coolant level
Transmission oil level
Hydraulic oil level
Washer fluid level
Climate control temperature and fan speed
Speed indicator
Engine revolutions per minute indicator
Engine torque reduction in case of malfunction indication:
High engine coolant temperature
High engine oil temperature
Low engine oil pressure
High crankcase pressure
High charge-air temperature
Engine shutdown to idle in case of malfunction indication:
High transmission oil temperature
Slip in transmission clutches
Start interlock when gear is engaged

STANDARD EQUIPMENT
Integrated Volvo Co-Pilot
Machine integration
Machine information
Machine settings
Service information
Service mode
Smart View with rear view camera
Climate controls
Radio and media (with Bluetooth and USB connection)
Load Assist portfolio
Operator Coaching Start
Toolbox applications
Remote support
Help center (digital operator's manual)
12.8-inch High Definition vertical Co-Pilot display
Hydraulic System
Main valve, double acting 2-spool with hydraulic pilots
Variable displacement axial piston pumps (3) for:
1 Working hydraulics, Pilot hydraulics and Brake system
2 Working hydraulics, Pilot hydraulics, Steering and Brake system
3 Cooling fan and Brake system
Secondary steering with automatic test function
Electro-hydraulic servo controls
Electronic 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, electro-hydraulic
Brake wear indicators

STANDARD EQUIPMENT
Cab
ROPS (ISO 3471), FOPS (ISO 3449)
Harness Anchor Points
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
Interior lights
Interior rear-view mirrors
Dual exterior rear-view mirrors
Sliding window, right side
Tinted windshield 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
Service and Maintenance
Engine oil remote drain and fill
Volvo High Performance oil filters with 1,000 hours service interval
Transmission oil remote drain and fill
Quick-fit transmission oil change
Lubrication manifolds, ground accessible
Pressure check connections: transmission and hydraulic, quick-connects
Quick-fit hydraulic oil fill
Service platform on the front frame
Tool box, lockable
External equipment
Orange hand rails
Fenders, front and rear
Reflecting stickers (decals), machine contour and cab
Viscous cab mounts
Rubber engine and transmission mounts
Frame, joint lock
Vandalism lock prepared for
Engine compartment
Radiator grille
Lifting eyes
Tie-down eyes
Fabricated counterweight
Counterweight, pre-drilled for optional guards

Equipment

OPTIONAL EQUIPMENT

Engine

Air pre-cleaner, cyclone type
Air pre-cleaner, oil-bath type
Air pre-cleaner, turbo type II
Air pre-cleaner, turbo type III
Engine auto shutdown
Engine delayed shutdown
Engine block heater 230V/110V
Fuel fill strainer
Fuel heater
Hand throttle control
Max. fan speed, hot climate
Radiator, corrosion-protected
Reversible cooling fan
Reversible cooling fan and axle oil cooler

Drivetrain

Diff lock front 100%, Limited Slip rear
Speed limiter
Wheel/axle seal guards

Electrical system

Anti-theft device
Emergency stop
Locking device, Tag out Lock out
License plate holder, lighting
Rear view mirrors, Long arm
Rear view mirrors, adjustable, el.heated, Long arm
Reduced function working lights, reverse gear activated
Reverse alarm, audible
Reverse alarm, white noise
Seatbelt indicator, external
Shortened headlight support brackets
Side marker lamps
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
Headlights, assymetric Left, LED
Headlights, assymetric Right, LED
Working lights, attachments, LED
Electrical distribution unit 24 volt
Parking brake alarm, audible for air susp seats
Jump start connector, ISO-Type
Max Boom height
Can Bus Interface

OPTIONAL EQUIPMENT

Integrated Volvo Co-Pilot

Tire pressure monitoring system
Handsfree telephone
Smart View
Smart View with 360°
Smart View with radar detect system
Forward camera
Dual forward cameras
Collision Mitigation System
Load Assist portfolio
Load Assist OBW
Load Assist Task Modes
Operator Coaching Advanced
Site services enabled
Site Operations
Connected Map
Load Ticket
File Upload
Performance indicators
Task Manager
Media player

Hydraulic System

Boom suspension system
Separate attachment locking
Arctic kit, for 3rd function
Auto bucket fill
Boom cylinder hose and tube guards
Hydraulic fluid, biodegradable, Volvo
Hydraulic fluid, fire-resistant
Hydraulic fluid, for hot climate
Hydraulic 3rd function
Hydraulic 3rd-4th function
Single lever control, hydraulics 2 functions
Single lever control, hydraulics 3 functions
Single lever control, hydraulics 4 functions

Brake system

Oil cooler and filter front & rear axle
Stainless steel, brake lines

OPTIONAL EQUIPMENT
Cab
Anchorage for Operator's manual
Automatic Climate Control, ACC
ACC control panel, with Fahrenheit scale
Asbestos dust protection filter
Ashtray
Cab air pre-cleaner, cyclone type
Carbon filter
Cover plate, under cab
Lunch box holder
Volvo Armrest, operator's seat, left
Operator's seat, Mechanical ISRI, 2pt seat belt
Operator's seat, Volvo Air Suspension, Heavy Duty, 2pt seat belt
Operator's seat, Volvo Air Suspension, 2pt seat belt
Operator's seat, Volvo Air Suspension, 3pt seat belt
Operator's seat, Comfort ISRI, 2pt seat belt
Operator's seat, Comfort ISRI, 3pt seat belt
Operator's seat, Premium ISRI, 2pt seat belt
Operator's seat, Premium ISRI, 3pt seat belt
Subwoofer
Steering wheel knob
Sun blinds, rear windows
Sun blinds, side windows
Timer cab heating
Window, sliding, door
Universal door/ignition key
Remote door opener
Forward view mirrors
Cab heater power outlet 240V
Cab, Hot applications. Roof, steel
Fire extinguisher cab
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
Grease nipple guards
Oil sampling valve
Quick engine oil change
Refill pump for grease to lube system
Tool kit
Wheel nut wrench kit
CareTrack, GSM, GSM/Satellite
Telematics, Subscription
Belly guard front
Belly guard rear
Cover plate, heavy-duty, front frame
Cover plate, rear frame
Cab roof, heavy-duty
Guards for front headlights
Guards for radiator grill
Guards for tail lights
Windows, side and rear guards
Windshield guard
Corrosion protection, painting of machine
Corrosion protection, painting of attachment bracket
Option for machines without dinitrol
Bucket Teeth protection

OPTIONAL EQUIPMENT
Wheel/Tires
26.5 R25
775/65 R29
875/65 R29
External equipment
Cab ladder, rubber-suspended
Escape Ladder, left fender
Handles on counterweight
Deleted front mudguards
Fire suppression system
Mudguards, full cover, front and rear for 80-series tires
Mudguards, full cover, front and rear for 65-series tires
Long boom
Tow hitch
Other equipment
CE-marking
Comfort Drive Control (CDC)
Counterweight, logging
Counterweight, signal painted, chevrons
Sound decal, EU
Sound decal, USA
Noise reduction kit, exterior
Block Handler package
Log Loader package
Rehandler package
3-Pass Rehandler package
Scrap Handler package
Slag Handler package
Waste Handler package
Attachments
Buckets:
Rock straight or spade nose
General purpose
Rehandling
Side dump
Light material
High tip
Refuse
Wear parts:
Bolt-on and weld-on bucket teeth
Segments
Cutting edge in three sections, bolt-on
Fork equipment
Material handling arm
Log grapples
Log pusher

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

V O L V O