

V O L V O



Volvo Wheel Loaders 27.0-28.4 t / 59,520-62,610 lb 337 hp

L180H

Volvo Construction Equipment

L180H



Strong and smart machines



Up to 15% greater fuel efficiency

- Rimpull control
- New generation OptiShift
- Reverse By Braking
- Eco pedal
- Dry P-brake



Boost your productivity by up to 10%

- New load sensing hydraulics
- New transmission and gear ratio
- Bucket leveling function
- Load Assist, powered by Volvo Co-Pilot
- Choice of single or multi levers



Built with the operator in mind

- Adjustable seat
- Choice of three hydraulic modes
- Comfort Drive Control (option)
- Radar detect system (option)
- Remote-control door opener (option)
- Collision Mitigation System (option)



Fully loaded

- Unique Torque Parallel linkage
- Block handling
- Slag handling
- Log handling
- Rehandling – up to 5% greater productivity



Here to support you

- Genuine Volvo Parts
- Operator training
- ActiveCare



Maximize your uptime

- Lifetime Frame and Structure Warranty
- 1,000hr engine oil change interval
- Quicker hydraulic oil fill thanks to new mounted nipple
- Tilting cab, electronically-operated engine hood
- Brake wear indicators
- Outboard mounted brakes
- Replaceable breather filters

Volvo L180H in detail

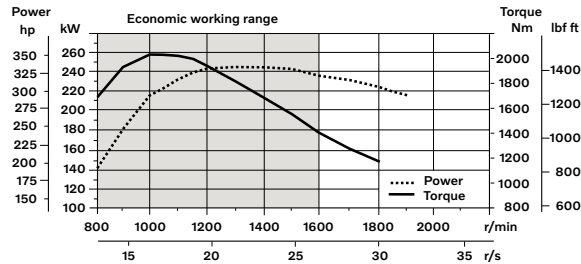
Engine

V-ACT Stage IV/Tier 4F 13 liter, 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 applications is transmitted electrically 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	r/min (r/s)	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	r/min (r/s)	1,000 (16.7)
ECE R120 net	Nm (ft lbf)	2,071 (1,527)
ISO 9249, SAE J1349 net	Nm (ft lbf)	2,065 (1,523)
Economic working range	r/min (r/s)	800 - 1 600 (13.3 - 26.7)
Displacement	l (in ³)	12.8 (781)



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. Torque converter with lockup.

Transmission: Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.

Axles: Volvo fully floating drive shafts with planetary hub reductions and nodular iron axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle. Optional: Limslip rear.

Transmission	Volvo	HTL 223
Torque multiplication, stall ratio		2.09:1
Maximum speed, forward/reverse		
1st gear	km/h (mi/h)	6.1 (3.8)
2nd gear	km/h (mi/h)	12.6 (7.8)
3rd gear	km/h (mi/h)	23.5 (14.6)
4th gear	km/h (mi/h)	38 (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)	610 (24)
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	2,280/80
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	l (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 pressure level in cab according to ISO 6396

L _{pA}	dB	70
External sound level according to ISO 6395		
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)	217 (57.3)
------	-----------------	------------

at	MPa (bar)	10 (100)
----	-----------	----------

engine speed	r/min (r/s)	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	r/min (r/s)	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	r/min (r/s)	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 (3.9)
---------------	---------	-----------

Rod diameter	mm (in)	60 (2.4)
--------------	---------	----------

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	l (gal)	366 (96.7)
-----------	---------	------------

DEF/AdBlue® tank	l (gal)	31 (8.2)
------------------	---------	----------

Engine coolant	l (gal)	55 (14.5)
----------------	---------	-----------

Hydraulic oil tank	l (gal)	156 (41.2)
--------------------	---------	------------

Transmission oil	l (gal)	48 (12.7)
------------------	---------	-----------

Engine oil	l (gal)	50 (13.2)
------------	---------	-----------

Axle oil front	l (gal)	46 (12.2)
----------------	---------	-----------

Axle oil rear	l (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
----------------	--	---

Cylinder bore	mm (in)	180 (7.1)
---------------	---------	-----------

Piston rod diameter	mm (in)	90 (3.5)
---------------------	---------	----------

Stroke	mm (in)	809 (31.9)
--------	---------	------------

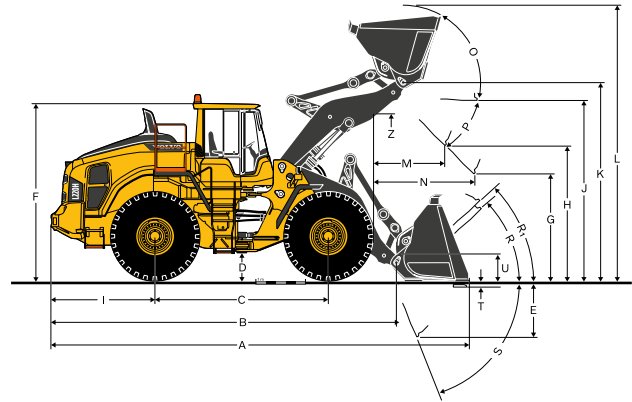
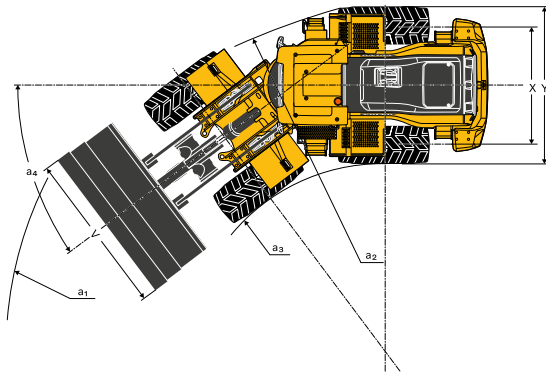
Tilt cylinder		1
---------------	--	---

Cylinder bore	mm (in)	240 (9.4)
---------------	---------	-----------

Piston rod diameter	mm (in)	120 (4.7)
---------------------	---------	-----------

Stroke	mm (in)	480 (18.9)
--------	---------	------------

Specifications



DIMENSIONS

Tires: 26.5 R25 L3

				L180H			
				Standard boom		Long boom	
B	mm	ft in		7,200	23' 7"	7,630	25' 0"
C	mm	ft in		3,550	11' 8"	3,550	11' 8"
D	mm	ft in		490	1' 7"	480	1' 7"
F	mm	ft in		3,590	11' 9"	3,580	11' 9"
G	mm	ft in		2,134	7' 0"	2,133	7' 0"
I	mm	ft in		2,240	7' 4"	2,240	7' 4"
J	mm	ft in		4,170	13' 8"	4,670	15' 4"
K	mm	ft in		4,590	15' 1"	5,100	16' 9"
O		°		57		55	
P _{max}		°		46		46	
R		°		44		48	
R ₁ *		°		48		53	
S		°		71		63	
T	mm	ft in		136	0' 5"	218	0' 9"
U	mm	ft in		570	1' 10"	660	2' 2"
X	mm	ft in		2,280	7' 6"	2,280	7' 6"
Y	mm	ft in		2,960	9' 9"	2,960	9' 9"
Z	mm	ft in		3,810	12' 6"	4,170	13' 8"
a ₂	mm	ft in		6,790	22' 3"	6,790	22' 3"
a ₃	mm	ft in		3,820	12' 7"	3,820	12' 7"
a ₄		±°		37		37	

* Carry position SAE

Bucket: WLA87106 4.4 m³ (5.8 yd³) GP STE PT SEG

Grapples:

Sales code: WLA80027

Operating weight (incl. logging cw 1,140 kg (2,510 lb)): 29,470 kg (64,980 lb)

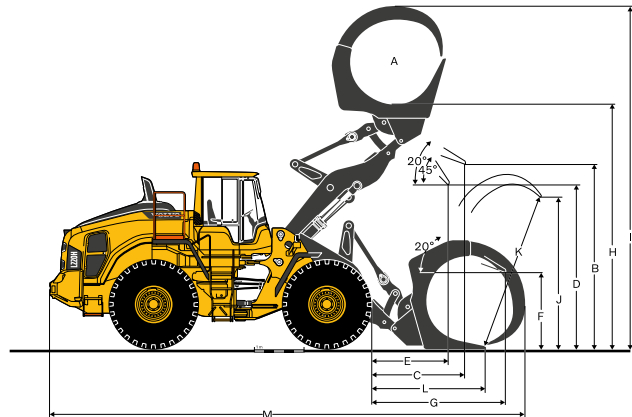
Operating load: 8,710 kg (19,210 lb)

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

				L180H	
A	m ²	yd ²		3.5	4.2
B	mm	in		3,980	13' 1"
C	mm	in		2,030	6' 8"
D	mm	in		3,260	10' 8"
E	mm	in		1,590	5' 3"
F	mm	in		1,700	5' 7"
G	mm	in		3,040	10' 0"
H	mm	in		5,290	17' 4"
I	mm	in		7,730	25' 4"
J	mm	in		3,370	11' 0"
K	mm	in		3,720	12' 2"
L	mm	in		2,410	7' 11"
M	mm	in		9,990	32' 9"



L180H
Tires 26.5 R25 L3

		REHANDLING ⁽¹⁾				GENERAL PURPOSE				ROCK ⁽²⁾	LIGHT MATERIAL	LONG BOOM
												-
		WLA86752	WLA86754	WLA86755	WLA86757	WLA87106	WLA87113	WLA87118	WLA87518	WLA92117	WLA87106	
		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 T SEG	4.2 m ³ (5.5 yd ³) SPN P T SEG	7.8 m ³ (10.2 yd ³) LM P BOE	4.4 m ³ (5.8 yd ³) STE P T SEG	
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 6.0	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 6.0	8.6 11.2	- -	-
Static tipping load, straight	kg lb	23,510 51,850	23,400 51,590	23,230 51,230	22,300 49,170	21,540 47,500	21,360 47,090	21,270 46,910	22,050 48,630	20,370 44,910	-3,790 -8,360	
at 35° turn	kg lb	20,870 46,020	20,750 45,760	20,590 45,410	19,720 43,480	19,160 42,240	18,960 41,810	18,880 41,640	19,570 43,160	18,020 39,740	-3,460 -7,630	
at full turn	kg lb	20,570 45,350	20,450 45,100	20,290 44,750	19,420 42,830	18,890 41,640	18,690 41,210	18,610 41,030	19,290 42,530	17,760 39,150	-3,430 -7,550	
Breakout force	kN lbf	224.9 50,560	224.2 50,400	216.2 48,610	199.2 44,790	236.1 53,080	231.9 52,140	226.5 50,940	211.5 47,550	173.5 39,000	+3.9 +880	
A Overall length	mm ft in	8,900 29'2"	8,900 29'2"	8,970 29'5"	9,100 29'10"	9,010 29'7"	9,040 29'8"	9,080 29'10"	9,190 30'2"	9,360 30'9"	+470 +1'7"	
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"	1,600 5'3"	1,680 5'6"	1,860 6'1"	+30 +0'2"	
H ⁽³⁾ Dump clearance	mm ft in	3,170 10'5"	3,170 10'5"	3,130 10'3"	3,040 10'0"	3,100 10'2"	3,080 10'1"	3,050 10'0"	3,000 9'10"	2,850 9'4"	+500 +1'8"	
L Overall operating height	mm ft in	6,210 20'5"	6,220 20'5"	6,280 20'7"	6,390 20'11"	6,220 20'5"	6,260 20'6"	6,290 20'8"	6,350 20'10"	6,420 21'1"	+500 +1'8"	
M ⁽³⁾ Dump reach	mm ft in	1,210 4'0"	1,210 4'0"	1,250 4'1"	1,360 4'5"	1,300 4'3"	1,320 4'4"	1,340 4'5"	1,400 4'7"	1,540 5'1"	-30 -0'2"	
N ⁽³⁾ Reach at 45° discharge, pos. G	mm ft in	1,960 6'5"	1,970 6'5"	1,990 6'6"	2,040 6'9"	2,010 6'7"	2,020 6'8"	2,040 6'8"	2,070 6'10"	2,050 6'9"	+420 +1'5"	
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 +0'0"	
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"	15,140 49'8"	15,240 50'0"	15,480 50'10"	+340 +1'4"	
Operating weight without load	kg lb	28,080 61,910	28,170 62,120	28,280 62,360	28,690 63,260	26,930 59,390	26,990 59,510	27,040 59,630	27,970 61,670	27,410 60,450	+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.

Result: The 4.6 m³ bucket carries 4.8 m³. 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	4.9	6.4	~ 4.8	~ 6.3
		~ 1.6	~ 2,698	5.2	6.8	~ 5.1	~ 6.7
		~ 1.5	~ 2,530	5.4	7.1	~ 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)
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		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)
	Rock	4.2 m ³ (5.5 yd ³)						4.2 (5.5)
	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)
	General purpose	4.4 m ³ (5.8 yd ³)					4.8 (6.3)	4.4 (5.8)
	Rock	4.2 m ³ (5.5 yd ³)					4.2 (5.5)	4.0 (5.2)
Long boom	Light material	7.8 m ³ (10.0 yd ³)	7.8 (10.0)					

How to read bucket fill factor

* Including counterweight

Supplemental Operating Data

Tires 26.5 R25 L3		Standard boom				Long boom			
		26.5 R25 L4	26.5 R25 L5	775/65 R29 L3	775/65 R29 L3	26.5 R25 L4	26.5 R25 L5	775/65 R29 L3	775/65 R29 L3
Width over tires	mm in	+ 10	+ 0.4	+ 10	+ 0.4	+ 10	+ 0.4	+ 10	+ 0.4
Ground clearance	mm in	- 10	- 0.4	0	0	+ 10	+ 0.4	0	0
Tipping load, full turn	kg lb	+ 410	+ 900	+ 490	+ 1,080	+ 570	+ 1,260	+ 380	+ 830
Operating weight	kg lb	+ 460	+ 1,020	+ 710	+ 1,570	+ 770	+ 1,700	+ 460	+ 1,020

Equipment

STANDARD EQUIPMENT

Engine

Exhaust after-treatment system
Two stage air cleaner, pre-cleaner, primary and secondary filter
Preheating of induction air
Fuel pre-filter with water trap
Fuel filter
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
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

24 V, pre-wired for optional accessories
Alternator 24V/80A/2280W
Battery disconnect switch
Fuel gauge
Hour meter
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)

STANDARD EQUIPMENT

Contronic monitoring system

Monitoring and logging of machine data
Contronic display
Fuel consumption
Diesel Exhaust Fluid/AdBlue consumption
Ambient temperature
Clock
Test function for warning and indicator lights
Brake test
Test function, sound level at max fan speed

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

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

Keypad, background lit

Start interlock when gear is engaged

STANDARD EQUIPMENT
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
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
Cab
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 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

STANDARD EQUIPMENT
Service and maintenance
Engine oil remote drain and fill
Transmission oil remote drain and fill
Lubrication manifolds, ground accessible
Pressure check connections: transmission and hydraulic, quick-connects
Quick-fit hydraulic oil fill
Tool box, lockable
External equipment
Orange hand rails
Fenders, front and rear
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
 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

Wheels and tires

26.5 R25
 775/65 R29

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
 Headlights, assym. left
 License plate holder, lighting
 Rear vision system, colour LCD monitor in the cab
 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
 Reverse warning light, strobe lighting
 Seatbelt indicator, external
 Shortened headlight support brackets
 Side marker lamps
 Warning beacon LED
 Warning beacon LED automatic
 LED Head Light
 LED tail light
 LED working lights, attachments
 LED working lights on cab, front and rear
 LED working lights on cab, front, 2 alt. 4 LED lamps
 LED working lights on cab, rear, 2 alt. 4 LED lamps
 LED working lights, rear in grille, 2 LED lamps
 LED working lights, front above head lamps, 2 LED lamps
 LED work lights, side on cab, 4 LED lamps
 LED light packages
 Working lights halogen, attachments
 Working lights on cab halogen, front and rear
 Working lights on cab halogen, rear
 Electrical distribution unit 24 volt
 Alternator 120 amp, heavy-duty
 Radar detect system
 Forward camera, colour
 Parking brake alarm, audible for air susp seats
 Jump start connector, NATO-Type
 Max Boom height
 Can Bus Interface
 Delayed Engine Shutdown
 Co Pilot available
 Rearview camera in Co pilot
 OnBoard Weighing
 Tire pressure monitoring
 MAP

OPTIONAL EQUIPMENT

Hydraulic system

Boom suspension system
 Separate attachment locking
 Arctic kit, for 3rd function
 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

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, Volvo air susp, heavy-duty, high back, heated
 Operator's seat, (air seat std) 2-point seat belt
 Operator's seat, (air seat std) 3-point seat belt
 Operator's seat, Premium Comfort ISRI
 Operator's seat, Premium Comfort ISRI 3-point seat belt
 Radio installation kit incl. 12 volt outlet, left side
 Radio installation kit incl. 12 volt outlet, right side
 Radio (with AUX, Bluetooth and USB connection)
 DAB Radio
 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 mirror
 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

OPTIONAL EQUIPMENT

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

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
Secondary steering with automatic test function
Sound decal, EU
Sound decal, USA
Reflecting stickers (decals), machine contour
Reflecting stickers (stripes), machine contour Cab
Noise reduction kit, exterior

Attachments

Buckets:
Rock straight or spade nose
General purpose
Re-handling
Side-dump
Light material
Wear parts:
Bolt-on and weld-on bucket teeth
Segments
Cutting edge in three sections, bolt-on
Fork equipment
Material handling arm
Log grapples

V O L V O