

V O L V O



Volvo Wheel Loaders 19-21.6 t 244 hp

L120H

Volvo Construction Equipment

L120H

Fork applications, rehandling, waste & recycling, log handling, agriculture. This medium-sized Volvo Wheel Loader is ready for all, and more.



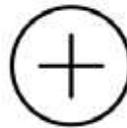
Made to move

Boasting a higher tipping load, more powerful engine, optimized transmission with new OptiShift option and new electric servo controls, the L120H wheel loader delivers up to 28% greater fuel efficiency than the L120F/L120Gz models, along with up to 12% increased productivity. What's more, a set of comfort and uptime-enhancing features further help to lower total cost of ownership.



Fuel efficiency

- OptiShift transmission with lockup (option)
- Reverse By Braking
- Rimpull control
- Eco pedal
- Dry P-brake



Productivity

- Higher tipping load: up 3%/6% compared to L120F/L120Gz
- 5% more engine power
- 17 mm higher pin
- Unique Torque Parallel linkage
- Tailored application packages
- Range of matched Volvo Attachments



Operator comfort

- Removed main switch, ignition key activates and powers the machine
- Adjustable armrest and levers, attached to the seat
- Choice of three hydraulic response modes
- Boom and bucket leveling functions
- Choice of single or multi levers
- Comfort Drive Control, Collision Mitigation System (options)



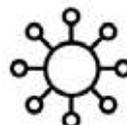
Load Assist suite of apps (option)

- On-Board Weighing
- Operator Coaching
- Tire Pressure Monitoring System
- When fitted, the rearview camera & radar detect system are displayed into the Volvo Co-Pilot



Uptime

- Removed main switch = no risk of flat battery because left on
- Delayed engine shutdown reduces wear (option)
- Maintenance-free rear axle cradles
- Brake wear indicators



Serviceability

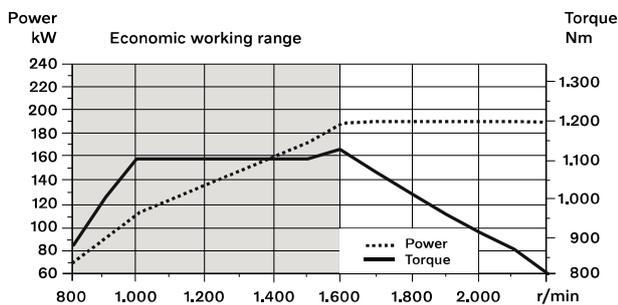
- Electrically-operated engine hood with large opening
- Hydraulic opening of tilting cab, to either a 30° or 70°
- Slidable cooler installation
- Lockout-tagout (LOTO) functionality on service switch
- Electric fuel priming pump
- Drain/fill connector for hydraulic oil

Volvo L120H in detail

Engine

8 liter, 6-cylinder in-line turbocharged diesel engine with an advanced common rail fuel injection system. Fuel is distributed under high pressure from a high-pressure accumulator. One camshaft-driven high pressure pump delivers the fuel to the rail and then to the electronically operated fuel injectors via high pressure pipes.

Engine	Volvo	D8L
Max. power at	r/min	1700 - 2240
ISO 14396 gross	kW	190.00
	hp	258.00
ISO 9249, SAE J1349 net	kW	190.00
	hp	243.00
Max. torque at	r/min	1 600.00
ISO 14396 gross	Nm	1 125
ISO 9249, SAE J1349 net	Nm	1 125.00
Economic working range	r/min	800 - 1 600
Displacement	l	7.80



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) 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. OptiShift transmission is also available as an option (HTL 206E).

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. Optional: Limslip rear.

Transmission	Volvo	HTE 206F
Torque multiplication, stall ratio		2.47:1
Maximum speed, forward/reverse		
1st gear	km/h	7.2
2nd gear	km/h	13.6
3rd gear	km/h	28.1
4th gear	km/h	40
4th gear limited by ECU - Local restrictions may apply.		
Measured with tires		750/65R25
Front axle/rear axle		AWB 31/AWB 30
Rear axle oscillation	± °	13
Ground clearance	mm	435
at oscillation	°	13

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	3 479/130
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 declutch of the transmission when braking using Contronic.

Parking brake: Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and electro-hydraulically released with a switch on the instrument panel.

Secondary brake: Dual brake circuits with rechargeable accumulators. Either 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		1
Accumulators	l	3 x 1.0
Accumulators for parking brake	l	1 x 1.0

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 (11 speed) setting. 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, 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	9
Heating capacity	kW	16
Air conditioning (optional)	kW	7.5

Lift Arm System

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

Lift cylinders		2
Cylinder bore	mm	150
Piston rod diameter	mm	80
Stroke	mm	676
Tilt cylinder		1
Cylinder bore	mm	210
Piston rod diameter	mm	110
Stroke	mm	412

Hydraulic system

System supply: Two load-sensing axial piston pumps with variable displacement. The steering system 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 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	29.0 ± 0.5
Flow	l/min	128
at	MPa	10
engine speed	r/min	1 900
Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa	31.0 ± 0.5
Flow	l/min	128
at	MPa	10
engine speed	r/min	1 900
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa	21.0 ± 0.5
Flow	l/min	128
at	MPa	10
engine speed	r/min	1 900
Pilot system, working pressure	MPa	3.5 ± 0.5
Cycle times		
Lift	s	5.4
Tilt	s	2.1
Lower, empty	s	2.5
Total cycle time	s	10

Raise and tilt cycle times with load according to ISO 14397

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	75
Rod diameter	mm	50
Stroke	mm	486
Working pressure	MPa	26.5
Maximum flow	l/min	128
Maximum articulation	± °	40

Service Refill

Service accessibility: Electrically openable engine hood with large opening angle giving excellent access to the engine compartment. 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	270
Engine coolant	l	38
Hydraulic oil tank	l	140
Transmission oil	l	38
Engine oil	l	30
Axle oil front	l	36
Axle oil rear	l	41

Sound Level

Sound level in cab according to ISO 6396/SAE J2105		
L _{pA}	dB	68
External sound level according to ISO 6395/SAE J2104		
L _{WA}	dB	106

Specifications

DIMENSIONS

Tires 23.5 R25 L3		L120H	
		Standard boom	Long boom
B	mm	6 660	7 140
C	mm	3 200	3 200
D	mm	430	430
F	mm	3 380	3 380
G	mm	2 132	2 132
J	mm	3 770	4 280
K	mm	4 100	4 610
O	°	54	54
P _{max}	°	50	50
R	°	42	43
R ₁ *	°	45	48
S	°	68	64
T	mm	108	157
U	mm	450	580
X	mm	2 070	2 070
Y	mm	2 670	2 670
Z	mm	3 330	3 330
a ₂	mm	5 730	5 730
a ₃	mm	3 060	3 060
a ₄	±°	40	40
With 3.4 m ³ STE H T bucket			

* Carry position SAE

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

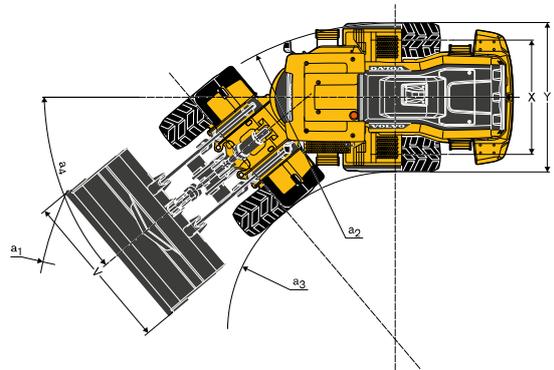
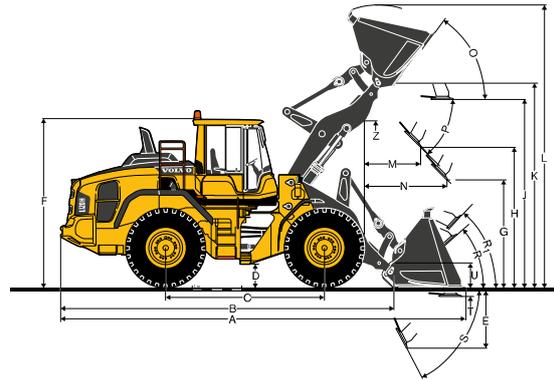
L120H Log Loader

Grapple: WLA80832

Operating weight

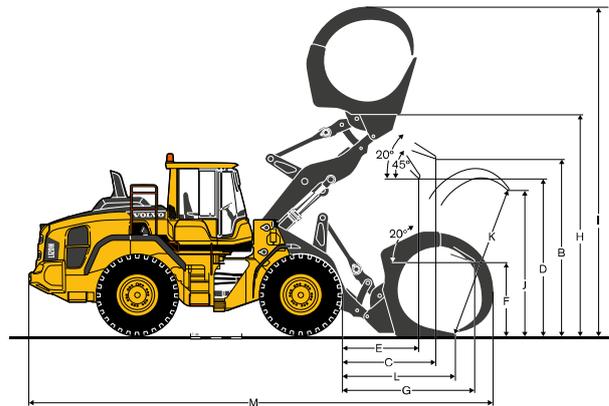
(incl. logging cw 685 kg): 20 840 kg

Operating load: 7 050 kg



Dimensions

Dimensions		L120H
		Tires: 750/65 R25
A	m ²	2.4
B	mm	3 550
C	mm	1 890
D	mm	2 920
E	mm	1 500
F	mm	1 530
G	mm	2 790
H	mm	4 660
I	mm	6 690
J	mm	2 790
K	mm	2 990
L	mm	2 150
M	mm	8 930



L120H

Tires 23.5R25 XHA2 L3		REHANDLING*		GENERAL PURPOSE				ROCK**	LIGHT MATERIAL		LONG BOOM***
											
		3.8 m ³ STE P BOE	3.8 m ³ STE H BOE	3.4 m ³ STE P T	3.4 m ³ STE H T	3.6 m ³ STE P BOE	3.6 m ³ STE H BOE	3.0 m ³ SPN P T SEG	5.5 m ³ LM H	9.5 m ³ LM H	3.4 m ³ STE H T
Volume, heaped ISO/SAE	m ³	3.8	3.8	3.4	3.4	3.6	3.6	3.0	5.5	9.5	3.4
Volume at 110% fill factor	m ³	4.2	4.2	3.7	3.7	4.0	4.0	3.3	6.1	10.5	3.7
Static tipping load, straight	kg	15 640	14 780	14 590	13 910	14 540	13 870	14 900	13 050	13 160	-2 580
at 35° turn	kg	13 860	13 060	12 940	12 310	12 900	12 270	13 220	11 490	11 560	-2 350
at full turn	kg	13 330	12 550	12 460	11 840	12 410	11 800	12 720	11 030	11 090	-2 290
Breakout force	kN	163.7	151.9	173.7	160.3	168.8	156.1	150.5	121.6	106.1	+5
A	mm	8 210	8 310	8 240	8 350	8 160	8 270	8 470	8 690	8 980	+500
E	mm	1 300	1 400	1 330	1 430	1 260	1 360	1 520	1 730	2 000	+20
H	mm	2 840	2 700	2 820	2 750	2 870	2 800	2 690	2 470	2 270	+510
L	mm	5 710	5 770	5 520	5 590	5 570	5 640	5 690	5 900	6 070	+510
M	mm	1 250	1 230	1 270	1 350	1 220	1 300	1 450	1 560	1 760	-30
N	mm	1 820	1 710	1 830	1 870	1 810	1 850	1 930	1 890	1 910	+450
V	mm	3 000	3 000	3 000	3 000	3 000	3 000	2 880	3 000	3 400	0
a ₁ clearance circle	mm	13 040	13 090	13 060	13 110	13 010	13 060	13 100	13 330	13 880	+480
Operating weight	kg	20 210	20 510	19 390	19 610	19 410	19 630	20 390	20 030	20 250	+280

* Measured with additional rehandling counterweight | ** With MICHELIN 23,5R25 XMINE D2 Pro L5 Tire | *** Compared to GP 3.4 m³ STE H T bucket

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 3.4 m³ bucket carries 3.6 m³. For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %		Material density, t/m ³	ISO/SAE bucket volume, m ³	Actual volume, m ³
Earth/Clay	~ 110		1.8	3.3	3.6
			1.6	3.6	3.9
Sand/Gravel	~ 105		1.8	3.3	3.5
			1.6	3.6	3.8
Aggregate	~ 100		1.8	3.8	3.8
Rock	≤100		1.7	3.0	3.0

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	L120H Material density (t/m ³)								
			0.8	1.0	1.2	1.4	1.6	1.8	2.0		
Standard boom	Rehandling	P 3.8 m ³									
		H 3.8 m ³									
	General purpose	P 3.3 m ³									
		H 3.3 m ³									
	Rock	P 3.6 m ³									
		H 3.6 m ³									
Long boom	Light material	P 3.0 m ³									
		H 5.5 m ³									
	Rehandling	P 3.8 m ³									
		H 9.5 m ³									
General purpose	P 3.3 m ³										
	P 3.6 m ³										
Rock	P 3.0 m ³										
	H 5.5 m ³										

Bucket fill: 110% 105% 100% 95%
 P=Pin-on H=Hook-on

Supplemental Operating Data

Tires 23.5 R25 L3	Standard boom		Long boom
	23.5 R25 L5	750/65 R25	750/65 R25
Width over tires	mm	+30	+200
Ground clearance	mm	+50	0
Tipping load, full turn	kg	+450	+330
Operating weight	kg	+670	+640

Equipment

STANDARD EQUIPMENT

Engine

Three stage air cleaner, pre-cleaner, primary and secondary filter

Indicator for coolant level

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

Indicator glass for transmission oil level

Differentials: Front, 100% hydraulic diff lock. Rear, conventional.

Electrical system

24 V, pre-wired for optional accessories

Alternator 24 V / 130 A / 3 479 W

Battery disconnect (service) switch

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)

STANDARD EQUIPMENT

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

Test function, sound level at max fan speed

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

Crankcase pressure

Attachment lock open

Safety Belt Warning

Level warnings:

Fuel 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

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

Quick hydraulic oil fill

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

STANDARD EQUIPMENT

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)
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
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

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 II
 Air pre-cleaner, turbo type III
 Engine auto shutdown
 Engine delayed shutdown
 Engine block heater
 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

23.5 R25
 750/65 R25

Drivetrain

Oil cooler and filter front & rear axle
 OptiShift transmission with Lock-up RBB
 Diff lock front 100%, Limited Slip rear
 Agri power-shift / lock-up 1-4
 Speed limiter
 Stainless steel, brake lines

OPTIONAL EQUIPMENT

Electrical system

Anti-theft device
 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
 Alarm kit, anti-theft function in WECU
 Battery disconnect switch, additional in cab
 Emergency stop
 Locking device, Tag out Lock out
 License plate holder, lighting
 Rear view camera, monitor
 Rear view mirrors, el.adjusted and heated
 Rear view mirrors, long arm right
 Rear view mirrors, el.adjusted and heated, long arm right
 Reduced function working lights, reverse gear activated
 Reverse alarm, audible
 Reverse alarm, white noise
 Dual LED reversing strobe lights
 Seatbelt indicator, external
 Shortened headlight support brackets
 Side marker lamps
 Warning beacon LED
 Warning beacon LED automatic
 Electrical distribution unit 24 volt
 Load Assist
 Radar detect system
 Collision Mitigation System
 Forward camera
 Dual forward cameras
 Parking brake alarm, audible for air susp seats
 Jump start connector, ISO-Type
 Max Boom height
 Can Bus Interface
 Delayed Engine Shutdown
 Co-Pilot available
 Rearview camera in Co-Pilot
 OnBoard Weighing
 OnBoard Weighing Task Mode
 Tire pressure monitoring system
 Connected Map
 Operator Coaching Start
 Operator Coaching Advanced

Hydraulic system

Boom suspension system
 Separate attachment locking
 Arctic kit, attachment locking hoses
 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
 Hydraulic constant flow control with detent for 3rd function
 Single lever control, hydraulics 2 functions
 Single lever control, hydraulics 3 functions
 Single lever control, hydraulics 4 functions

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
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 mirrors
Cab heater power outlet 240 V
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
Refill pump for grease to lube system
Tool kit
Wheel nut wrench kit
CareTrack, GSM, GSM/Satellite
Telematics, Subscription

OPTIONAL EQUIPMENT

Protective equipment

Belly guard front
Belly guard rear
Cover plate, heavy-duty, front frame
Cover plate, rear frame
Cover plate, front/rear axle
Cab roof, heavy-duty
Guards for front headlights
Guards for radiator grill
Guards for tail lights
Windows, side and rear guards
Windshield guard
Wheel/axle seal guards
Corrosion protection, painting of machine
Corrosion protection, painting of attachment bracket
Bucket Teeth protection

External equipment

Cab ladder, rubber-suspended
Deleted front mudguards & wideners rear
Handles on counterweight
Fire suppression system
Mudguards, full cover, rear for 80-series tires
Mudguards, full cover, rear for 65-series tires
Long boom
Tow hitch

Other equipment

Comfort Drive Control (CDC)
Counterweight, logging
Counterweight, signal painted, chevrons
Reflecting stickers (decals), machine contour
Reflecting stickers (stripes), machine contour Cab
Option for machines without dinitrol
Noise reduction kit, exterior
Sign, slow moving vehicle
Sign, 50 km/h
Agriculture package
Log Loader package
Rehandling package
Scrap Handler package
Waste Handler package

Attachments

Buckets:
Rock straight or spade nose
General purpose
Rehandling
Light material
High tip
Grading
Wear parts:
Bolt-on and weld-on bucket teeth
Segments
Cutting edge in three sections, bolt-on
Fork equipment
Material handling arm
Log grapples
Snow plows
Spreading bucket
Sweepers

V O L V O