

**V O L V O**



Volvo Wheel Loaders 18-20.7 t 256 hp

**L110H**

Volvo Construction Equipment

# L110H

With high breakout force, ultimate parallel movement and easy bucket filling, this medium sized 20-tonne wheel loader is ready to tackle a range of applications.



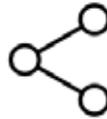
# Made to move

The second generation of Volvo L110H Wheel Loader is as versatile, fuel efficient and reliable as its forerunner but it comes with a batch of improvements that increase availability. A new Volvo engine and power strategy, plus a host of maintenance-friendly features trigger benefits for the operators, service technicians and machine owners.



## Fuel efficiency

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



## Loaded for versatility

- Unique Torque Parallel linkage
- Range of matched Volvo Attachments
- Custom built attachments
- Tailored application packages



## Operator comfort

- Removed main switch, ignition key activates and powers the machine
- Choice of single or multi levers
- Choice of three hydraulic response modes
- Auto bucket leveling function
- Comfort Drive Control (option)
- Premium seat (option)



## Load Assist (option)

- On-Board Weighing
- Operator Coaching
- Tire Pressure Monitoring System
- When fitted, Radar detect system, Rear-view camera and Collision Mitigation System are integrated into the Volvo Co-Pilot display



## Uptime

- Auto engine regeneration while working
- 1 000 hr engine service interval
- Removed main switch = no risk of flat battery because left on
- Delayed engine shutdown reduces wear (option)



## Serviceability

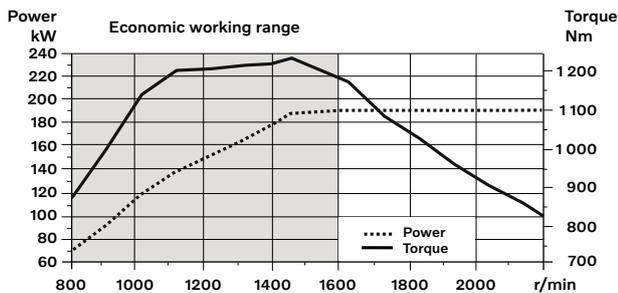
- Electric fuel priming pump
- Lockout-tagout (LOTO) on service switch
- Electrically-operated engine hood with large opening
- Slidable cooler installation
- Drain/fill connector for hydraulic oil
- Brake wear indicators

# Volvo L110H 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. The engine meets all emission requirements and comply with Stage V emission legislation by the help of the exhaust after treatment system (EATS) which contains the diesel oxy-catalyst (DOC) and diesel particulate filter (DPF) for regeneration, urea injector, mixing chamber, SCR and slipcat for reduction of NOx. The reduction of NOx is assisted by the use of cooled exhaust gas recirculation (EGR) as well.

Engine	Volvo	D8M
Max. power at	rpm	1 500 - 2 240
ISO 14396 gross	kW	191
	hp	256
ISO 9249, SAE J1349 net	kW	191
	hp	256
Max. torque at	rpm	1 450
ISO 14396 gross	Nm	1 246
ISO 9249, SAE J1349 net	Nm	1 246
Economic working range	rpm	800 - 1 600
Displacement	lit	7.8



## 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	HTE 206F
Torque multiplication, stall ratio	2.47:1
<b>Maximum speed, forward/reverse</b>	
1st gear	km/h 7.3
2nd gear	km/h 13.7
3rd gear	km/h 28.4
4th gear	km/h 40
Measured with tires	750/65R25
Front axle/rear axle	AWB 31/ AWB 30
Rear axle oscillation	±° 13
Ground clearance	mm 460
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	3 640 / 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 by selecting the setting in the contronics.  
**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		1
Accumulators	lit	3 x 1.0
Accumulators for parking brake	lit	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 settings (11 speeds). Defroster vents for all window areas.  
**Operator' 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<sub>2</sub>-eq.

## Emergency exit: Use emergency hammer to break window

Ventilation	m <sup>3</sup> /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
Lift cylinder bore	mm	150
Lift cylinder piston rod diameter	mm	80
Lift cylinder stroke	mm	676
Tilt cylinder		1
Tilt cylinder bore	mm	210
Tilt cylinder piston rod diameter	mm	110
Tilt cylinder 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	27.0 ± 0.5
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Flow	l/min	128
at	MPa	10
engine speed	rpm	1 900

Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa	29.0 ± 0.5
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Flow	l/min	128
at	MPa	10
engine speed	rpm	1 900

Working pressure maximum, pump 3 for brake- and cooling fan system	MPa	21.0 ± 0.5
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Flow	l/min	33
at	MPa	10
engine speed	rpm	1 900

Pilot system, working pressure	MPa	3.5 ± 0.5
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### 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	lit	270
DEF/AdBlue® tank	lit	31
Engine coolant	lit	38
Hydraulic oil tank	lit	140
Transmission oil	lit	38
Engine oil	lit	30
Axle oil front	lit	36
Axle oil rear	lit	41

## Sound Level

Sound level in cab according to ISO 6396 - L <sub>pA</sub>	dB	68
External sound level (ISO 6395 and EU Noise Directive 2000/14/EC) - L <sub>WA</sub>	dB	106

# Specifications

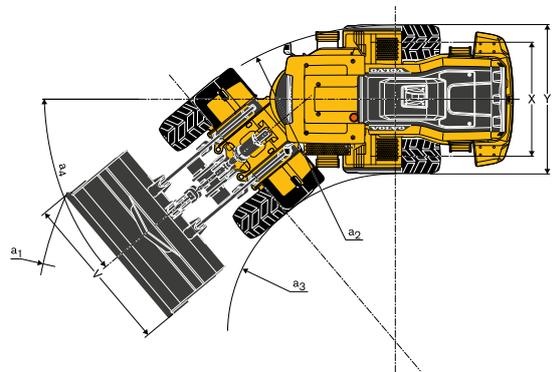
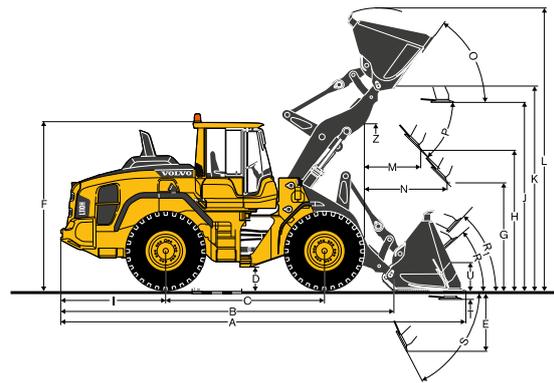
DIMENSIONS			
Tires 23.5 R25 L3		L110H	
		Standard boom	Long boom
B	mm	6 550	7 080
C	mm	3 200	3 200
D	mm	440	430
F	mm	3 380	3 380
G	mm	2 131	2 133
I	mm	2 120	2 120
J	mm	3 710	4 220
K	mm	4 030	4 550
O	°	55	74
P <sub>max</sub>	°	50	47
R	°	41	41
R <sub>1</sub> *	°	43	47
S	°	66	43
T	mm	95	106
U	mm	430	560
X	mm	2 070	2 070
Y	mm	2 670	2 670
Z	mm	3 340	3 330
a <sub>2</sub>	mm	5 730	5 730
a <sub>3</sub>	mm	3 060	3 060
a <sub>4</sub>	±°	40	40

With 3.0 m<sup>3</sup> STE H T bucket

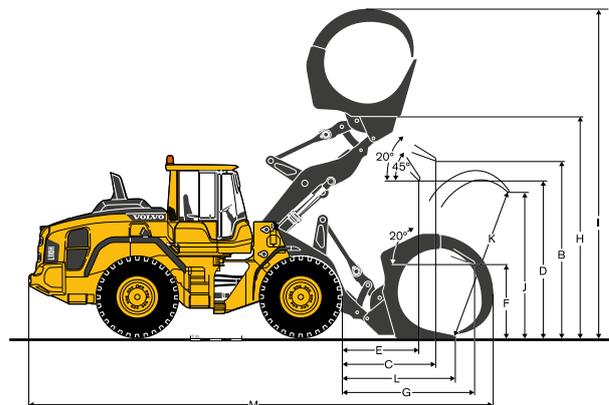
\* Carry position SAE

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

L110H Log Loader  
 Grapple: WLA80832  
 Operating weight  
 (incl. logging cw 685 kg): 20 070 kg  
 Operating load: 6 500 kg



Dimensions		
		L110H
		Tires: 750/65 R25
A	m <sup>2</sup>	2.4
B	mm	3 480
C	mm	1 850
D	mm	2 860
E	mm	1 460
F	mm	1 530
G	mm	2 720
H	mm	4 600
I	mm	6 630
J	mm	2 790
K	mm	2 990
L	mm	2 050
M	mm	8 830



**L110H**

Tires 23.5R25 XHA2 L3		REHANDLING*		GENERAL PURPOSE				ROCK**	LIGHT MATERIAL		LONG BOOM***
		3.5 m <sup>3</sup> STE P BOE	3.5 m <sup>3</sup> STE H BOE	3.0 m <sup>3</sup> STE P T	3.0 m <sup>3</sup> STE H T	3.4 m <sup>3</sup> STE P BOE	3.4 m <sup>3</sup> STE H BOE	2.7 m <sup>3</sup> SPN P T SEG	5.5 m <sup>3</sup> LM H	9.5 m <sup>3</sup> LM H	3.0 m <sup>3</sup> STE H T
Volume, heaped ISO/SAE	m <sup>3</sup>	3.5	3.5	3.0	3.0	3.4	3.4	2.7	5.5	9.5	3.0
Volume at 110% fill factor	m <sup>3</sup>	3.9	3.9	3.3	3.3	3.7	3.7	3.0	6.1	10.5	3.3
Static tipping load, straight	kg	14 790	14 100	13 860	13 150	13 580	12 920	13 820	12 060	12 160	-530
at 35° turn	kg	13 150	12 500	12 340	11 670	12 080	11 470	12 260	10 640	10 700	-520
at full turn	kg	12 660	12 030	11 890	11 240	11 630	11 040	11 800	10 220	10 270	-530
Breakout force	kN	173.1	160.0	179.7	165.5	171.5	158.5	153.0	123.1	107.3	+3
A	mm	8 040	8 150	8 110	8 220	8 060	8 160	8 390	8 580	8 880	+510
E	mm	1 220	1 320	1 280	1 380	1 230	1 330	1 520	1 700	1 960	-310
H	mm	2 820	2 750	2 780	2 710	2 810	2 740	2 600	2 420	2 210	+510
L	mm	5 580	5 650	5 430	5 490	5 500	5 570	5 540	5 840	6 010	+520
M	mm	1 170	1 250	1 220	1 300	1 180	1 260	1 400	1 520	1 730	-40
N	mm	1 720	1 760	1 740	1 780	1 720	1 760	1 810	1 800	1 810	+440
V	mm	3 000	3 000	2 880	2 880	2 880	2 880	2 880	3 000	3 400	0
a <sub>1</sub> clearance circle	mm	12 930	12 980	12 860	12 910	12 830	12 880	13 040	13 260	13 810	+480
Operating weight	kg	19 360	19 580	18 520	18 750	18 580	18 800	19 710	19 260	19 480	+250

\* Measured with additional rehandling counterweight | \*\* With MICHELIN 23,5R25 XMINE D2 Pro L5 Tire | \*\*\* Compared to GP 3.0 m<sup>3</sup> STE H T bucket

**Bucket Selection Chart**

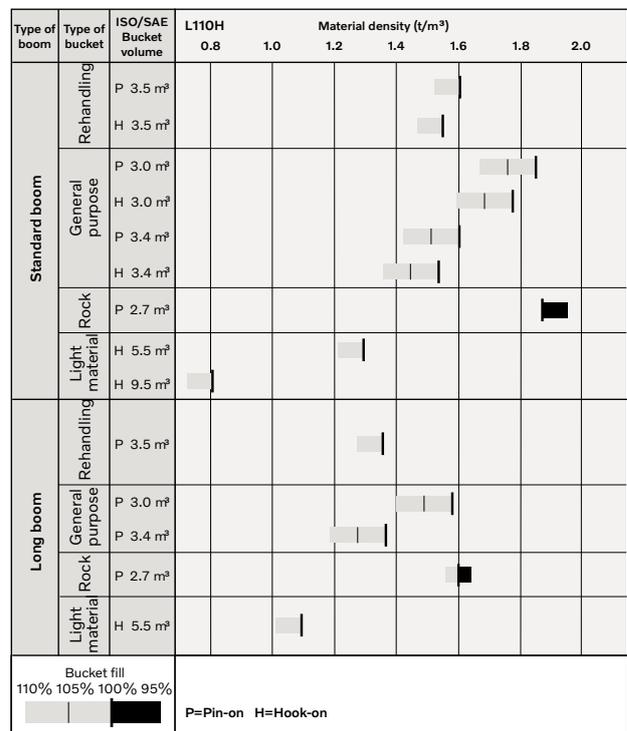
The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance.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

**Example:** Sand and gravel. Fill factor ~ 105%. Density 1.6 t/m<sup>3</sup>.

**Result:** The 3.4 m<sup>3</sup> bucket carries 3.6 m<sup>3</sup>. For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m <sup>3</sup>	ISO/SAE bucket volume, m <sup>3</sup>	Actual volume, m <sup>3</sup>
Earth/Clay	~ 110	1.8	3.0	3.3
		1.6	3.4	3.7
Sand/Gravel	~ 105	1.8	3.0	3.2
		1.6	3.4	3.6
Aggregate	~ 100	1.8	3.5	3.5
Rock	≤100	1.7	2.7	2.7

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



How to read bucket fill factor

**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	+200
Ground clearance	mm	+50	0	0
Tipping load, full turn	kg	+490	+430	+310
Operating weight	kg	+670	+640	+640

# Equipment

## STANDARD EQUIPMENT

### Engine

Exhaust after-treatment system  
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  
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

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**STANDARD EQUIPMENT**

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**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

**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

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**STANDARD EQUIPMENT**

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**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
<b>Cab</b>
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
<b>Service and Maintenance</b>
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
<b>Protective equipment</b>
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
<b>External equipment</b>
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
<b>Other equipment</b>
CE-marking
Comfort Drive Control (CDC)
Counterweight, logging
Counterweight, signal painted, chevrons
Sound decal, EU
Sound decal, USA
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
<b>Attachments</b>
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

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**