

V O L V O



Volvo Wheel Loaders 19-21.6 t 275 hp

L120H

Volvo Construction Equipment

L120H

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.



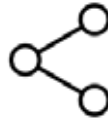
Made to move

The second generation of Volvo L120H 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

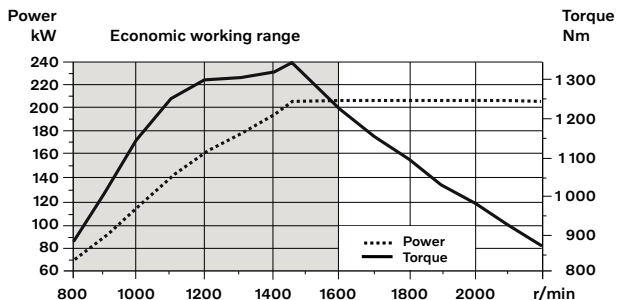
Volvo L120H in detail

Engine

8 liters, 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 | r/min | 1 500 - 2 240 |
| ISO 14396 gross | kW | 205 |
| | hp | 275 |
| ISO 9249, SAE J1349 net | kW | 205 |
| | hp | 275 |
| Max. torque at | r/min | 1 450 |
| ISO 14396 gross | Nm | 1 345 |
| ISO 9249, SAE J1349 net | Nm | 1 345 |
| Economic working range | r/min | 800 - 1 600 |
| Displacement | l | 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 | 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 |
| Note: 4th gear limited by ECU | | |
| 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 by selecting the setting in the contronics.

Parking brake: Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and disengaged by external hydraulic pressure. The parking brake is activated and deactivated through a switch in the dashboard.

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 | 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 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 | 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 | 33 |
| 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 |
| DEF/AdBlue® tank | l | 31 |
| 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 pressure level in cab according to ISO 6396 | | |
| L _{pA} | dB | 68 |
| External sound level according to ISO 6395 | | |
| 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 |
| I | mm | 2 120 | 2 120 |
| 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 m³ 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.

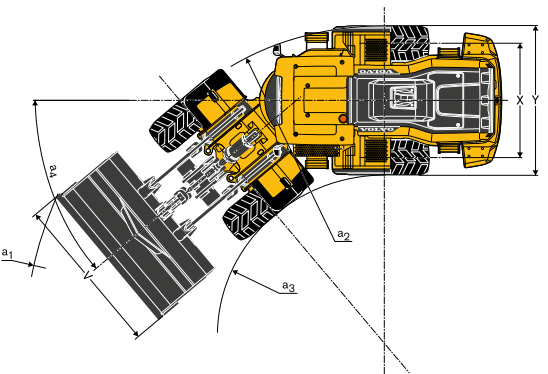
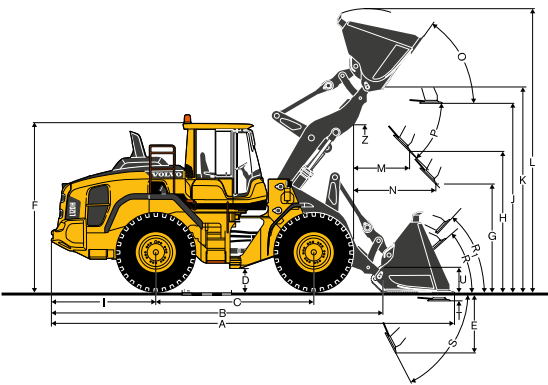
L120H Log Loader

Grapple: WLA80832

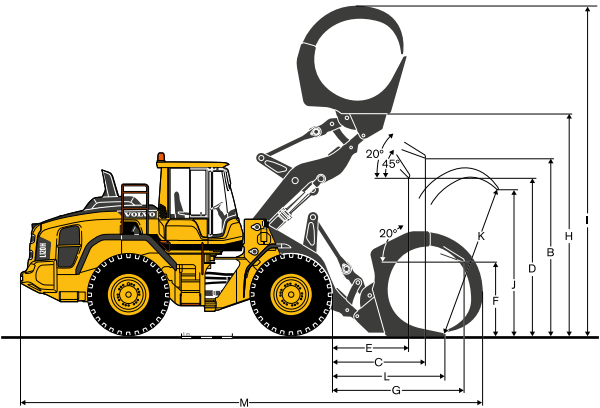
Operating weight

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











Operating load: 7 050 kg



| DIMENSIONS | | |
|------------|----------------|-------------------|
| | | 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 m³ STE P BOE | 3.8 m³ STE H BOE | 3.4 m³ STE P T | 3.4 m³ STE H T | 3.6 m³ STE P BOE | 3.6 m³ STE H BOE | 3.0 m³ SPN P T SEG | 5.5 m³ LM H | 9.5 m³ LM H | 3.4 m³ STE H T |
| Volume, heaped ISO/SAE | m³ | 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 | m³ | 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, 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 |
| | | | 1.6 | | |
| 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 | 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 | | | | | | | | |
| | | P 3.6 m ³ | | | | | | | | |
| | | H 3.6 m ³ | | | | | | | | |
| | Rock | P 3.0 m ³ | | | | | | | | |
| | | H 5.5 m ³ | | | | | | | | |
| | Light material | H 9.5 m ³ | | | | | | | | |
| | | | | | | | | | | |
| Long boom | Rehandling | P 3.8 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 | | | | | | | | |

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 | +450 | +380 | +330 |
| 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

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 |
| 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 |
| 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 |

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