Volvo Construction Equipment

# L105

VOLVO WHEEL LOADER 16.8-18.1 t 224 hp

# Powered by Volvo.

A premium Volvo engine is at the center of the L105 – maximizing your uptime and increasing your productivity. The L105 delivers more power for less fuel – featuring Volvo's unique eco pedal which ensures operators drive efficiently. Experience Volvo's proven, advanced technology and benefit from ultimate quality and durability.

**Cooling system**

The cooling fan effectively reduces the temperature of the engine. It works automatically and only turns on when needed – reducing fuel consumption.

**Eco pedal**

Volvo's unique eco pedal reduces fuel consumption by applying push-back force when the accelerator is used excessively – encouraging the operator to ease off the throttle.

**E-ECU**

Volvo's unique Engine Electronic Control Unit (E-ECU) features enhanced software and provides total electronic control of all engine functions to ensure optimum performance and long service life. The system controls the amount of fuel injected during different operating conditions for maximum efficiency.

**Air intake filters**

Three air filters (cyclone pre-cleaner, main filter and safety filter) protect the engine from dirt for longer life and increased reliability. Around 70% of all impurities are removed at the first stage, reducing the workload of the main filter.t.

**Engine**

Volvo diesel engines are built with advanced technology and on decades of experience. Volvo's state-of-the-art 7 liter, 6-cylinder turbocharged engine gives you high torque at low rpm for industry-leading quality, high performance and low fuel consumption.

**APS transmission**

Unique, Volvo-designed Automatic Power Shift (APS) system simplifies operation by automatically selecting the right gear – increasing productivity by allowing the operator to concentrate on the job in hand.

# Built to last.

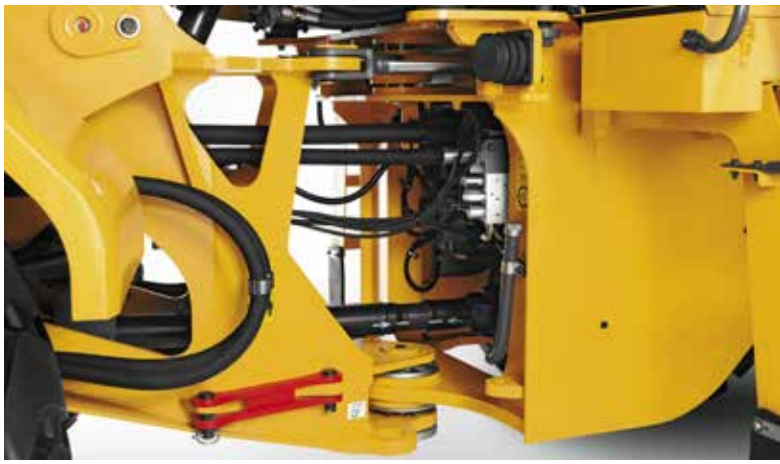
Capitalize on productivity and experience top to bottom Volvo quality with the L105. All components work in perfect harmony to ensure superior performance in all wheel loader operations, whatever the conditions. With durability you can count on, you can trust Volvo to increase your uptime.

**Parking brake**

Electrically activated parking brake is easy to use for maximum operator control and safety.

**Articulated center hinge**

The central hinge, with upper and lower bearings, is widely spaced to withstand increased vertical and horizontal stress – reducing the risk of fault in demanding conditions.



**Brakes**

Hydraulically operated dry disc brakes deliver powerful stopping forces for safe and effective control. The service brake system is divided in two circuits – one for the front axle and one for the rear axle. The circuits share a back-up accumulator to ensure reliable secondary braking capacity.

**Axles**

Volvo's heavy-duty axles are designed for long life in tough conditions. Durable axles improve reliability and machine uptime.

# Feel the power.

The Volvo L105 gives you a powerful performance. Featuring proven, advanced technology, premium hydraulic components and durable Z-bar linkage – this machine will save you time and money. The L105 has been built strong and engineered to increase your productivity, even in the most demanding conditions.

**Hydraulic components**

Volvo uses premium, high quality hydraulic components for improved reliability, durability and increased uptime – so your machine can run continuously without fault.

**Hydraulic lever**

For ease of operation, the operator has complete fingertip control of the bucket and lifting unit by using small levers inside the cab.

**Auto positioning**

Once activated, the automatic bucket leveler and boom kick-out functions stop the bucket and linkage in adjustable, pre-selected positions quickly and accurately. This increases productivity and shortens cycle times by improving ease of use and efficiency.

**ORFS hose joints**

The ORFS (O-Ring Face Seal) technology of the hydraulic connectors provides a leak-free joint – resisting high pressure, vibrations and twisting. These durable seals can handle the most demanding conditions.

**Lifting arm system**

Volvo's powerful lifting arm system, made from high strength steel, features strong Z-bar linkage and lift arm sensors that have been designed for the toughest jobs. With more power, the high breakout torque, rim pull and lifting force work together to give you better bucket fill – ensuring efficient performance and increasing productivity.

**Visibility**

Safely access the cab via the entry ladder and benefit from all-round visibility from large expanses of glass, slim cab pillars and well placed rear view mirrors. Viscous mounts between the cab and frame reduce vibration for increased comfort. It all adds up to more productivity with Volvo.

# More comfort = more productivity.

At Volvo we know that increased operator comfort reduces fatigue. That's why our industry-leading cab provides the operator with a spacious, comfortable and quiet environment – perfect for optimizing productivity all day long. Step inside and see the results for yourself.

**I-ECU monitor**

The large monitor clearly presents machine information. Using a keypad the operator and service technician can make quick visual and diagnostic checks, increasing uptime and productivity.

**Radio USB**

To keep operators focused and improve performance, the Volvo radio features a USB connection which allows operators to listen to their preferred music.

**ROPS/FOPS**

The Volvo cab is Roll Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS) certified – providing operators with increased safety and peace of mind so they can focus on their work.

**Cab air filter**

The cab air intake is positioned high on the machine, where air is cleanest. In Volvo's exclusive design, the easy-to-replace pre-filter separates coarser dust. Around 90% of cab air is recirculated through the main filter.

**Climate control**

Volvo's powerful, industry-leading heating and air conditioning system ensures operators can work productively in any environment.


**Reduced noise**

Low noise levels inside the cab reduce operator fatigue and increase performance by making it easier to concentrate on the task in hand.

# Maximize uptime with Volvo.

You can rely on Volvo to maintain your uptime. The L105 has been designed for long service life and features state-of-the-art technology to analyze machine operation. Benefit from built-in serviceability by quickly and easily carrying out maintenance and service checks. A Volvo machine won't let you down.

**Wiring**

All electrical wires are well protected and routed through sturdy conduits. Each wire, connector and pin is clearly and systematically color/number coded for added simplicity and safety.

**Contronics**

The computerized Volvo Contronic system continuously monitors machine performance and operation in real-time. Diagnostics and information needed for the best operation are communicated to the operator via a screen in the cab, reducing downtime.

**Service tools**

For increased uptime, Volvo's high-tech, computer-based MATRIS tool uses information from the Contronic system to analyze machine operation. VCADS Pro analysis and programming software makes it easy to control and adjust the engine function.


**Serviceability**

Grouped service points and excellent access to the entire engine compartment provide easy and safe access for maintenance. This allows regular checks to be done faster, increasing machine uptime.

# Productivity. Defined.

**Z-bar**

Volvo's powerful Z-bar linkage, made from high strength steel, delivers high breakout torque.

**Air intake filters**

Three air filters protect the engine from dirt for longer life and increased reliability.

**Financial services**

Volvo Financial Services China provides financial solutions – from loans to leases – designed to meet customer needs.

**Eco pedal**

Volvo's unique eco pedal reduces fuel consumption by encouraging the operator to ease off the throttle.

**Attachments**

Volvo understands how you work and has the right attachment for your specific application.

**APS**

Unique, Volvo-designed Automatic Power Shift (APS) system simplifies operation by automatically selecting the right gear.


**Volvo cab**

Industry-leading Volvo cab provides a productive working environment. ROPS and FOPS certified for increased safety.

**Climate control**

Volvo's powerful, industry-leading heating and air conditioning system ensures operators can work in any environment.

**Engine**

Volvo's 7 liter, 6-cylinder turbocharged engine gives you superior quality, performance and low fuel consumption.

**Contronics**

Volvo Contronic system continuously monitors machine performance and communicates the information to the operator in the cab.

**Serviceability**

Grouped service points and excellent access to the entire engine compartment provide easy and safe access for maintenance.

**Cooling system**

Automatically reduces the temperature of the engine and only turns on when needed – reducing fuel consumption.

# The right attachment for you.

Volvo understands how its customers work and has the right attachment to suit all applications. Whether you're working in coal, iron, quarry, aggregate or any other application – Volvo has the attachment for your specific requirements. With a wide range of perfectly matched attachments, the L105 is a versatile machine which can effectively perform a variety of tasks. Trust Volvo to get the job done.

**Performance Parts**

Volvo offers a selection of economic ground engaging tools in good level of quality. They are engineered for affordable strength and impact absorption. All parts are wear resistant and available as spare parts. Bolt on edge are reversible and this reduces replacement interval. Affordable cost level gives lower costs per hour in appropriate applications. Help your machines do more work each hour, which increases your productivity.



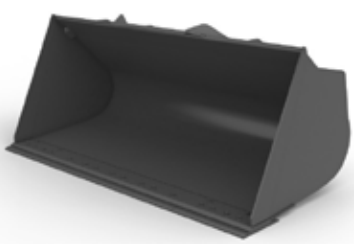
**Attachment bracket**

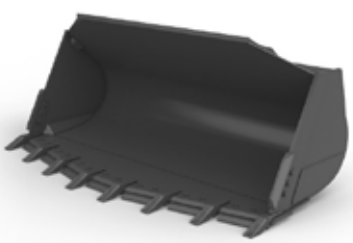
Connect and go with Volvo's attachment bracket which has been internationally ISO standardized. The bracket allows quick interchange of attachments for increased flexibility. The strong, open bracket design gives the operator visibility of the attachment from the cab.


VOLVO


VOLVO


VOLVO





# First-class support.

At Volvo we're not just committed to providing you with a quality machine – we can also deliver continuous state-of-the-art support through our soft product offering. Take advantage of the excellent Volvo support network and enjoy access to all the products and competence required to ensure your machine generates maximum profit and growth for your business.

### Customer Support Agreements

Volvo Customer Support Agreements offer service and maintenance with maximum cost control and machine uptime. The flexible system caters for a range of needs from total repair and maintenance to an inspection program covering vital parts and functions.


### Operator training

Volvo Eco Operator courses are a fast and easy way to increase productivity and reduce costs. Operators are trained to become more productive, fuel efficient and safer as well as reduce wear and tear on your machines. The program teaches correct operation and maneuvering as well as how to plan work in the smartest, most efficient way.


### Genuine Volvo Parts

Volvo Service Technicians work with industry-leading diagnostic tools and techniques, using only Genuine Volvo Parts to deliver the highest levels of quality and service. Talk to your local Volvo dealer about how genuine Volvo services can provide the service and maintenance plan that best fits your needs.


### Support center

Volvo customers have direct access to the unique dealer support network. Customers can telephone a support number which identifies the call and transfers it to the local dealer where a dedicated team will take care of your needs – maximizing machine uptime.


**Finance service**

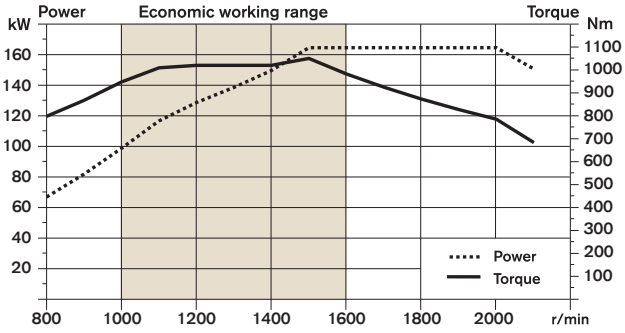
Volvo Financial Services China provides integrated, competitive financial solutions designed to meet customer needs. A variety of possibilities from versatile loans to lease solutions can be tailor-made and delivered through Volvo dealerships.

# Volvo L105 in detail.

## Engine

6-cylinder, 7.1 liters inline turbocharged disel engine with an advanced fuel injection system with the common rail. Fuel is distrbuted under high pressure from a high-pressure accumulator, the rail. One camshaft- driven high pressure pump deliver the fuel to the rail and then further on via high-pressure pipes to the electrically operated fuel injectors. Air cleaning: Three-stage, - Cyclone precleaner - primary filter - secondary filter. Cooling system: Electric controlled silicone-oil clutch fan and intercooler of the air-to-air type.

| | | |
|---|---|---|
| Engine | | D7D (Tier II) |
| Max power at | r/s (r/min) | 25 (1 500) |
| SAE J1995 gross | kW / hp | 165 / 224 |
| Max torque at | r/s (r/min) | 25 (1 500) |
| SAE J 1995 gross | Nm | 1 053 |
| Economic working range | r/min | 1 000 -1 600 |
| Displacement | l | 7.15 |




## Brake system

Service brake: Volvo fully hydraulic operated dry disc brakes, shared(integerated)-circuit system with a nitrogen charged acculmulator to ensure reliable secondary braking capability. Parking brake: Dry disc brake on the transmission output shaft. Applied by spring force, electro-hydraulically released with a switch on the instrument panel.
Secondary brake: Dual brake circuits with a rechargeable accumulator. One circuit or the parking brake fulfills all safety requirements.
Standard: The brake system complies with the requirements of ISO 3450.

| | | |
|---|---|---|
| Accumulators | l | 3 x 0.5 |

## Drivetrain

Torque converter: Single-stage.
Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears.
Transmission: Volvo Automatic Power Shift (APS) with automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO.
Axles: Volvo fully floating axle shafts with spiral bevel gear reductions as main one and planetary hub reductions on wheel side and cast steel axle housing. Fixed front axle and oscillating rear axle.

| | | | |
|---|---|---|---|
| Transmission | | Volvo | HTE203 |
| Maximum speed, forward/reverse | 1st gear | km/h | 7.2 |
| | 2nd gear | km/h | 13.3 |
| | 3rd gear | km/h | 26.2 |
| | 4th gear* | km/h | 38.4 |
| Measured with tires | | | 760/23.5-25 |
| Front axle/rear axle | | | LF701/LR701 |
| Rear axle oscillation ± | | ° | ± 13 |
| Ground clearance at 13° osc. | | mm | 430 |

## Electrical system

Central warning system: Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault - 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 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.

| | | |
|---|---|---|
| Voltage | V | 24 |
| Batteries | V | 2 x 12 |
| Battery capacity | Ah | 2x120 |
| Cold cranking capacity, approx | A | 850 |
| Batteries | | |
| Alternator rating | W/A | 2 240/80 |
| Starter motor output | kW | 5.5 |

## 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 manual and 4 speeds. 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), FOPS (ISO 3449).

| | |
|---|---|
| Emergency exit: | Use emergency hammer to break window |

| Sound level in cab according to ISO 6396/SAE J2105 | | |
|---|---|---|
| | dB(A) | 78 |
| External sound level according to ISO 6396/SAE J2105 | | |
| | dB(A) | 115 |
| Ventilation | $m^3$/min | 9 |
| Heating capacity | kW | 14 |
| Air conditioning | kW | 4.8 |

## Lift arm system

Z-bar linkage with high breakout torque. The lift arms are singel plate design with a high-strength welding cross tube. The singel bell crank and bucket link are structral steel weldings.

| | | |
|---|---|---|
| Lift cylinders | | 2 |
| Cylinder bore | mm | 160 |
| Piston rod diameter | mm | 90 |
| Stroke | mm | 774 |
| Tilt cylinder | | 1 |
| Cylinder bore | mm | 190 |
| Piston rod diameter | mm | 90 |
| Stroke | mm | 550 |

## Steering system

Steering system: Load-sensing hydrostatic articulated steering.
System supply: The steering system has priority feed from fixed displacement gear pump.
Steering cylinders: Two double-acting cylinders.

| | | |
|---|---|---|
| Steering cylinders | | 2 |
| Cylinder bore | mm | 80 |
| Rod diameter | mm | 50 |
| Stroke | mm | 480 |
| Working pressure | MPa | 28 |
| Maximum flow | l/min | 80 |
| Maximum articulation | ± ° | 40 |

## Hydraulic system

Open Centre hydraulics with efficient Gear Pumps.
Valves: Double-acting 2-spool valve. The main valve is controlled by a dual lever pilot valve.
Lift function: The valve has four positions; raise, hold, lower and float 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 | 21 |
| Flow | l/min | 220 |
| at engine speed | r/s(r/min) | 38.3 (2 300) |
| Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system | | |
| | MPa | 21 |
| Flow | l/min | 114 |
| at engine speed | r/s(r/min) | 38.3 (2 300) |
| Working pressure maximum, pump 3 for brake system | | |
| | MPa | 22.5 |
| Flow | l/min | 55 |
| at engine speed | r/s(r/min) | 38.3 (2 300) |
| Pilot system, working pressure | | |
| | MPa | 21 |
| Cycle times | | |
| Lift | s | 5 |
| Tilt | s | 2.2 |
| Lower, empty | s | 2.8 |
| Total cycle time | s | 10.4 |

## Service

Service accessibility: Large, easy-to-open hood covering whole engine department. Fluid filters and component breather air filters promote long service intervals. Possibility to monitor, log and analyze data to facilitate troubleshooting.

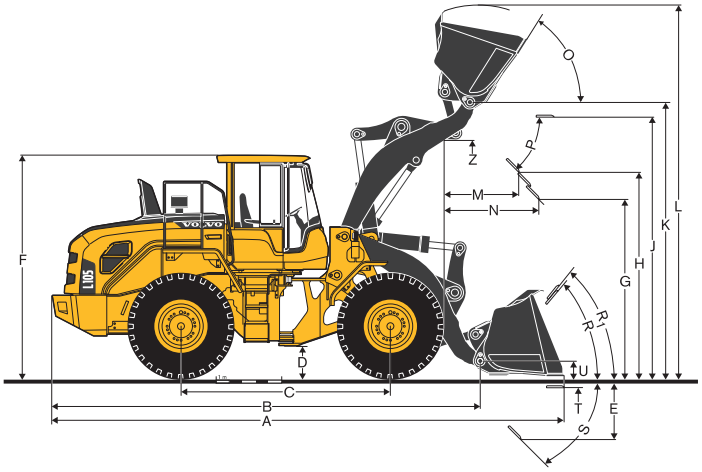
| | | |
|---|---|---|
| Fuel Tank | l | 270 |
| Engine coolant | l | 37 |
| Hydraulic oil tank | l | 130 |
| Transmission oil | l | 38 |
| Engine oil | l | 23.5 |
| Axle oil front | l | 40 |
| Axle oil rear | l | 38 |

# Specifications.

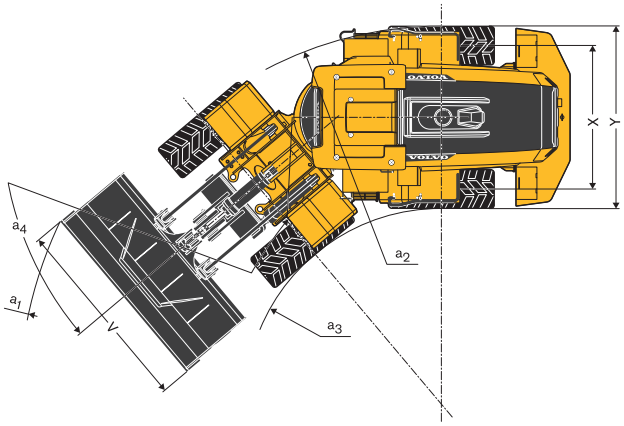
**Tires 23.5-25**

| Description | | Standard boom | Long boom |
|---|---|---|---|
| B | mm | 6 390 | 6 840 |
| C | mm | 3 200 | 3 200 |
| D | mm | 430 | 430 |
| F | mm | 3 380 | 3 380 |
| G | mm | 2 130 | 2 130 |
| J | mm | 3 890 | 4 320 |
| K | mm | 4 140 | 4 570 |
| O | ° | 56 | 59 |
| Pmax | ° | 50 | 51 |
| R | ° | 48 | 47 |
| R[1]* | ° | 53 | 53 |
| S | ° | 64 | 63 |
| T | mm | 130 | 180 |
| U | mm | 460 | 590 |
| X | mm | 2 070 | 2 070 |
| Y | mm | 2 680 | 2 680 |
| Z | mm | 3 820 | 3 820 |
| a[2] | mm | 5 730 | 5 730 |
| a[3] | mm | 3 060 | 3 060 |
| a[4] | ±° | 40 | 40 |

* Carry position SAE



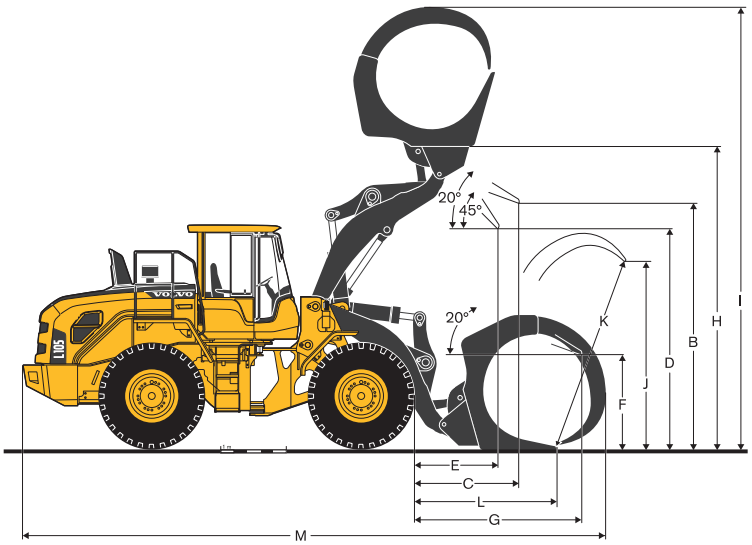

Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.




Operating weight
(incl. logging cw 430 kg: 18 100 kg
Operating load: 5 000 kg

**Tires 23.5-25**

| Description | | |
|---|---|---|
| A | m² | 1.1 |
| B | mm | 3 674 |
| C | mm | 1 944 |
| D | mm | 3 108 |
| E | mm | 1 619 |
| F | mm | 1 610 |
| G | mm | 2 836 |
| H | mm | 4 770 |
| I | mm | 6 239 |
| J | mm | 2 331 |
| K | mm | 2 406 |
| L | mm | 2 174 |
| M | mm | 8 604 |



| | | GP | | Iron ore | Rehandling | Rock | | Light M | |
|---|---|---|---|---|---|---|---|---|---|
| | |  |  |  |  |  |  |  |  |
| | | STE P BOE | STE H BOE | STE P BOE | STE P BOE* | STE P T | SPN P T SEG | LM P | LM P Long boom |
| Volume, heaped ISO/SAE | $m^3$ | 3.1 | 3.1 | 2.3 | 3.4 | 2.8 | 2.9 | 4.5 | 3.7 |
| Static tipping load, straight | kg | 12 070 | 12 310 | 11 720 | 12 440 | 12 140 | 11 860 | 11 640 | 10 070 |
| at 35° turn | kg | 10 730 | 10 920 | 10 440 | 11 040 | 10 800 | 10 530 | 10 320 | 8 880 |
| at full turn | kg | 10 335 | 10 510 | 10 060 | 10 630 | 10 410 | 10 140 | 9 930 | 8 530 |
| Breakout force | kN | 195 | 153 | 225 | 168 | 206 | 176 | 172 | 174 |
| A | mm | 7 920 | 8 150 | 7 740 | 8 120 | 8 060 | 8 180 | 8 090 | 8 390 |
| E | mm | 1 180 | 1 260 | 1 020 | 1 350 | 1 300 | 1 410 | 1 330 | 1 240 |
| H | mm | 3 100 | 2 980 | 3 230 | 2 970 | 3 010 | 2 930 | 2 990 | 3 530 |
| L | mm | 5 640 | 5 740 | 5 390 | 5 660 | 5 490 | 5 490 | 5 770 | 6 100 |
| M | mm | 1 270 | 1 430 | 1 150 | 1 410 | 1 370 | 1 470 | 1 390 | 1 330 |
| N | mm | 1 950 | 1 990 | 1 870 | 2 020 | 2 000 | 2 070 | 2 010 | 2 340 |
| V | mm | 3 000 | 3 000 | 3 000 | 3 000 | 3 000 | 3 000 | 3 200 | 3 200 |
| $a_1$ clearance circle | mm | 12 710 | 12 620 | 12 630 | 12 800 | 12 770 | 12 830 | 12 970 | 13 360 |
| Operating weight | kg | 17 180 | 17 700 | 17 120 | 17 710 | 17 560 | 17 290 | 17 430 | 17 650 |

*Including extra counterweight

| Bucket | | Standard Boom Max Material density kg/$m^3$ | Long Boom Max Material density kg/$m^3$ | Application |
|---|---|---|---|---|
| **General Purpose** | 3.1 $m^3$ STE P BOE | 1 630 | 1 320 | Sand /gravel |
| **General Purpose Long Boom** | 2.7 $m^3$ STE P BOE | - | 1 540 | Sand /gravel |
| **General Purpose** | 2.3 $m^3$ STE P BOE | 2 140 | 1 740 | Iron ore |
| **Rock** | 2.8 $m^3$ STE P T | 1 820 | 1 470 | Blasted Rock |
| | 2.9 $m^3$ SPN P T SEG | 1 710 | 1 380 | Blasted Rock |
| **Rehandling** | 3.4 $m^3$ STE P BOE* | 1 530 | 1 240 | Rehandling, aggregate |
| **Light Material** | 4.5 $m^3$ LM | 1 080 | 870 | Wood chips, coal |
| **Light material** | 3.7 $m^3$ LM | | 1 130 | Coal |
| **Light Material High Tip** | 4.0 $m^3$ HIT | 1 150 | 930 | Wood chips, coal |
| **Side Dump** | 2.5 $m^3$ ROSD | 1 660 | 1 320 | Blasted Rock |

# Equipment.

**STANDARD EQUIPMENT**

**Service and maintenance**

- Lubrication manifolds, ground accessible
- Pressure check connections: transmission and hydraulic, quick-connects
- Tool box, lockable

**Engine**

- Three stage air cleaner, pre-cleaner, primary and secondary filter
- Easy to read coolant level
- Preheating of induction air
- Fuel pre-filter with water trap
- Fuel filter

**Electrical system**

- 24 V, pre-wired for optional accessories
- Alternator 24V/ 120 A
- Battery disconnect switch with removable key
- 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
  - Brake and tail lights
  - Turn signals with flashing hazard light function
  - Halogen work lights

**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
- Warning and indicator lights:
  - Battery charging
  - Parking brake
- Warning and display message:
  - Engine coolant temperature
  - Charge-air temperature
  - Engine oil pressure
  - Transmission oil temperature
  - Transmission oil pressure
  - Hydraulic oil temperature
  - Brake pressure
  - Parking brake applied
  - Brake charging
  - Overspeed at direction change
- Level warnings:
  - Fuel level
  - Engine coolant level
  - Hydraulic oil level
- Engine torque reduction in case of malfunction indication:
  - High engine coolant temperature
  - Low engine oil 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

**Drivetrain**

- Automatic Power Shift
- PWM-controlled gearshifting
- Forward and reverse switch by hydraulic lever console
- Indicator glass for transmission oil level

**Brake system**

- Dual brake circuits
- Parking brake, electrical-hydraulic

**Cab**

- ROPS (ISO 3471), FOPS (ISO 3449)
- Single key kit door/start
- Acoustic inner lining
- Ashtray
- Cigarette lighter, 24 V power outlet
- Lockable door
- Cab heating with fresh air inlet and defroster
- Fresh air inlet with two filters
- Automatic heat control
- Floor mat
- Interior lights
- Dual interior rear-view mirrors
- Dual exterior rear-view mirrors
- Sliding window, right side
- Tinted safety glass
- Retractable seatbelt (GB17921)
- Adjustable steering wheel
- Storage compartment
- Document pocket
- Sun visor
- Beverage holder
- Windshield washer front
- Windshield wipers front
- Interval function for front wipers

**Hydraulic system**

- Main valve, double acting 2-spool with hydraulic pilots
- Fixed displacement Gear pumps (3) for:
  - P1 Working hydraulic system
  - P2 Steering- and Brake system
  - P3 Brake System, Steering System & Pilot system
- Hydraulic servo controls
- Hydraulic level lock
- Boom kick-out, automatic
- Bucket positioner, automatic
- Double-acting hydraulic cylinders
- Indicator glass for hydraulic oil level
- Hydraulic oil cooler

**External equipment**

- Fenders, front and rear
- Viscous cab mounts
- Rubber engine and transmission mounts
- Easy-to-open engine hood
- Frame, joint lock
- Vandalism lock prepared for
  - Batteries
  - Engine compartment
- Lifting eyes
- Tie-down eyes
- Tow hitch

| OPTIONAL EQUIPMENT |
|---|
| **Service and maintenance** |
| Automatic lubrication system |
| **Engine** |
| Air pre-cleaner, oil-bath type |
| **Hydraulic system** |
| Attachment bracket, mechanical |
| Hydraulic function, 3rd |
| **External equipment** |
| Long boom |
| **Protective equipment** |
| **Other equipment** |
| Counterweight, logging |
| **Tyres** |
| 23.5-25 18 PLY |

| ATTACHMENTS |
|---|
| Buckets: |
| Volvo Rock straight or spade nose bucket |
| Volvo General purpose bucket |
| Volvo Re-handling bucket |
| Volvo Light material bucket |
| Volvo High tip bucket |
| Volvo Side dump bucket |
| Wear parts: |
| Weld-on bucket teeth |
| Segments |
| Cutting edge in three sections, bolt-on |
| Side shrouds |
| Volvo Fork equipment |
| Volvo Material handling arm |
| Volvo Log grapple |

## SELECTION OF VOLVO OPTIONAL EQUIPMENT

**Rotating beacon**

**Hydraulic function, 3rd**

**Long boom**


**Tyres 18Plys**

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.

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