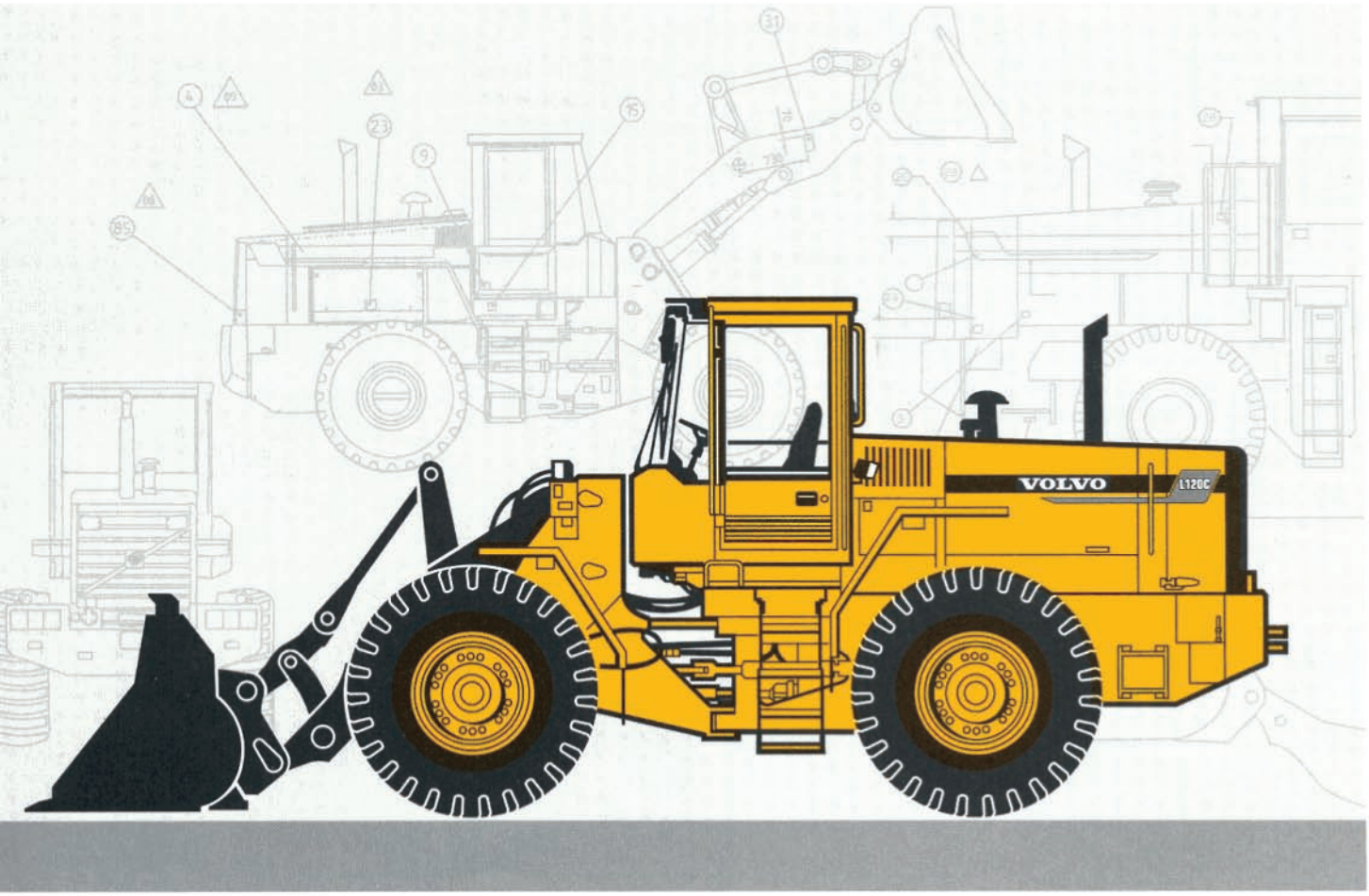
# VOLVO WHEEL LOADER

# L120C




- **Engine output SAE J1349:**
  **gross** 153 kW **208 hp**
  **net** 148 kW **201 hp**
- **Operating weight:** 18,0–20,2 t
  **39,680–44,530 lb**
- **Buckets:** 3,0–9,5 $m^3$
  **3.9–12.4 $yd^3$**
- **Volvo high-performance, low-emission engine** with excellent low rpm performance. The engine meets all known regulations regarding exhaust emissions for off-road machines until year 2001.
- **Volvo transmission with APS II,** 2nd generation of Automatic Power Shift with mode (shift pattern) selector for optimum performance and fuel consumption.
- **Wet disc brakes**
  - Fully sealed oil circulation-cooled wet disc brakes, outboard-mounted.
- **Torque Parallel Linkage**
  - high breakout torque throughout the working range
  - excellent parallel lift-arm action
- **Care Cab** – pressurized cab with high comfort and safety
- **Contronic** monitoring system
- **Load-sensing steering system**
- **Pilot-operated working hydraulics**

**Optional Equipment**

- Hydraulic attachment bracket
- Long Boom
- Boom Suspension System
- Comfort Drive Control

**Other options, see back page**

VOLVO

## STEERING SYSTEM

*Low-effort steering gives short work cycle times. Power-efficient system provides good fuel economy, good directional stability and easy steering.*

**Steering system**: Load-sensing hydrostatic articulated steering with power amplification.

**System supply**: The steering system is supplied from a separate steering pump.

**Pump**: Double variable-flow axial piston pump.

**Cylinders**: Two double-acting cylinders.

| | | | | |
|---|---|---|---|---|
| Steering cylinders | 2 | | | |
| Bore | 80 | mm | **3.15** | **in** |
| Piston rod diameter | 50 | mm | **1.97** | **in** |
| Stroke | 476 | mm | **18.74** | **in** |
| Relief pressure | 21 | MPa | **3046** | **psi** |
| Max. flow | 91 | l / min | **24.0** | **US gpm** |
| Articulation | ± 40 ° | | | |

## CAB

*Care Cab with easy entry and wide door opening. Lined with sound-absorbent material. Sound and vibration-suppressing suspension. Good all-round visibility, large glass areas. Curved windshield of laminated, green-tinted glass. Ergonomically located controls and instruments permit a comfortable operating position.*

**Instrumentation**: All important information is readily visible to the operator. Cab display for Contronic monitoring system is standard.

**Heater and defroster**: Heating and ventilation system with filtered fresh air and four-speed fan. Defroster outlets for all windows.

**Operator's seat**: Heated, spring-suspended, adjustable operator's seat with retractable belt. The seat is mounted on a bracket on the rear wall. The force from the belt is absorbed by the seat rails.

**Standards**: Tested and approved according to the following standards: ROPS (ISO/CD 3471, SAE J1040), FOPS (ISO 3449, SAE J231). Complies with "Overhead guards for rider lift trucks" (ISO 6055) and "Operator Restraint System" (SAE J386).

| | | | |
|---|---|---|---|
| Emergency exits | 2 | | |
| Sound level in cab | | | |
| as per ISO 6394, | | | |
| max fan position | 72 | dB (A) | |
| fan position 2 | 69 | dB (A) | |
| Exterior sound level | | | |
| ISO 6393 LwA | 106 | dB (A) | |
| Ventilation | 10 | $m^3$/min | **353 $ft^3$/min** |
| Heating capacity | 11 | kW | **37,500 Btu/h** |
| Air-conditioning (optional) | 8 | kW | **27,300 Btu/h** |

## HYDRAULIC SYSTEM

*Open center hydraulics with efficient high capacity vane pump allows precision control and quick movements even at low engine speed.*

**Pump**: Vane pump fitted to a power takeoff on the transmission. The pilot system is supplied from a combined pilot/brake pump which is mounted in series with the steering pump.

**Valve**: Double-acting 3-spool valve. Actuated by a 3-spool pilot valve. 3rd spool for optional 3rd hydraulic function.

**Lift function**: The valve has four functions: raise, hold, lower and float. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lift height.

**Tilt function**: The valve has three functions: rollback, hold and dump. Adjustable inductive/magnetic automatic bucket positioner can be switched on and off.

**Cylinders**: Double-acting

**Filter**: Full-flow filtration through 20 micron (absolute) filter cartridge.

| | | | | |
|---|---|---|---|---|
| Vane pump | | | | |
| Relief pressure | 22,5 | MPa | **3263** | **psi** |
| Flow | 280 | l/min | **74** | **US gpm** |
| at | 10 | MPa | **1450** | **psi** |
| and engine speed | 35 | r/s | **2100** | **rpm** |
| Pilot system | | | | |
| Relief pressure | 3,0 | MPa | **435** | **psi** |
| Cycle times | s | | | |
| Raise* | 5,8 | | | |
| Dump* | 1,8 | | | |
| Lower, empty | 2,8 | | | |
| Total cycle time | 10,4 | | | |

* with load as per ISO 5998 and SAE J818

## LIFT-ARM SYSTEM

*TP Linkage combines high breakout torque throughout the working range with parallel lift-arm action. These features, together with good visibility, high lift height and long reach, make the lift-arm system equally good in bucket loading and work with fork attachments and material-handling arms.*

| | | | | |
|---|---|---|---|---|
| Lift cylinder | 2 | | | |
| Bore | 160 | mm | **6.3** | **in** |
| Piston rod diameter | 80 | mm | **3.1** | **in** |
| Stroke | 676 | mm | **26.6** | **in** |
| Tilt cylinder | 1 | | | |
| Bore | 230 | mm | **9.1** | **in** |
| Piston rod diameter | 110 | mm | **4.3** | **in** |
| Stroke | 412 | mm | **16.2** | **in** |

## SERVICE

*Contronic monitoring system provides information on machine condition, routine maintenance schedules and minimizes time required for troubleshooting.*

**Service accessibility**: Large, easy-to-open engine access doors with gas struts. Hinged radiator grill and swing-out radiator.

| Refill capacities | l | US gal |
|---|---|---|
| Fuel tank | 255 | **67.4** |
| Engine coolant | 65 | **17.2** |
| Hydraulic tank | 155 | **40.9** |
| Transmission | 33 | **8.7** |
| Engine oil | 22 | **5.8** |
| Axle front / rear | 36/41 | **9.5/10.8** |

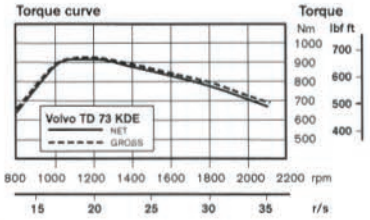
## ENGINE

*Engine delivers high torque and quick response at low rpm even under full load. The machine can work at low engine speeds, which contributes to good fuel economy, less noise, less wear and longer life.*

**Engine:** High-performance, low-emission, 6-cylinder, in-line, direct-injected, turbocharged intercooled 4-stroke diesel engine with wet replaceable cylinder liners.

**Air cleaning:** three-stage.

| Engine | Volvo TD 73 KDE | | | |
|---|---|---|---|---|
| Flywheel output at | 35 | r/s | **2100** | **rpm** |
| SAE J1349 gross | 153 | kW | **208** | **hp** |
| SAE J1349 net | 148 | kW | **201** | **hp** |
| Max. torque at | 18,3 | r/s | **1100** | **rpm** |
| SAE J1349 gross | 925 | Nm | **682** | **lbf ft** |
| SAE J1349 net | 920 | Nm | **679** | **lbf ft** |
| Displacement | 6,7 | l | **409** | **in³** |




## ELECTRICAL SYSTEM

*Contronic monitoring system with complete information on the status of the machine's various systems is standard. Electrical system with circuit board is well-protected by fuses. Prewired for optional equipment.*

**Central warning**: Central warning lamp for the following functions: engine oil pressure, engine coolant temperature (with buzzer), transmission oil pressure, transmission oil temperature, brake pressure, parking brake (buzzer), high speed/gear, transmission oil filter and axle oil temperature. Shut down to idle is standard.

| | | | |
|---|---|---|---|
| Voltage | 24 | V | |
| Batteries | 2x12 | V | |
| Battery capacity | 2x105 | Ah | |
| Cold cranking capacity | 1050 | A | |
| Reserve capacity | 290 | min | |
| Alternator rating | 1 680 | W / 60 A | |
| Starter-motor output | 5,4 | kW | **7.3 hp** |

## DRIVETRAIN

*Drivetrain and working hydraulics well-matched to each other. Dependable design. Quick acceleration boosts productivity. Volvo system-compatible design facilitates servicing.*

**Torque converter**: Single-stage

**Transmission**: Volvo Automatic Power Shift transmission of countershaft type with single-lever control. Fast and smooth forward/reverse shifting.

**Shifting system**: Volvo Automatic Power Shift (APS II) with mode selector.

**Axles**: Volvo fully floating axle shafts with planetary-type hub reductions. Cast-steel axle housing. Fixed front axle and oscillating rear axle. 100 % differential lock on front axle.

| | | |
|---|---|---|
| Transmission | Volvo HT 205 | |
| Torque multiplication | 2,85:1 | |
| Speeds, | | |
| max. forward/reverse | km/h | **mph** |
| 1 | 7,3 | **4.5** |
| 2 | 13,3 | **8.3** |
| 3 | 25,2 | **15.7** |
| 4 (forward only) | 35,5 | **22.0** |
| Measured with tires | 23.5 R25* L2 | |
| Front axle | Volvo / AWB 31 | |
| Rear axle | Volvo / AWB 30 | |
| Oscillation, rear axle | ±13° | |
| Ground clearance at | | |
| 13° oscillation | 463 mm | **18.2 in** |

## BRAKE SYSTEM

*Simple, reliable system with few parts ensures high availability and safety. Self-adjusting, internal oil circulation-cooled disc brakes give long service intervals.*

**Service brakes**: Volvo dual-circuit system with nitrogen-charged accumulators. Fully hydraulically operated, enclosed, internal oil circulation-cooled, outboard-mounted disc brakes. Transmission declutch during braking can be preselected by a switch on the instrument panel. Brake performance test included in the Contronic system.

**Parking brake**: Enclosed, wet multi-disc brake built into the transmission. Spring applied, electro-hydraulic release via a switch on the instrument panel. Automatically applied when the key is turned off.

**Secondary brake**: Either of the service brake circuits or the parking brake fullfills safety requirements.

**Standards**: The brake system complies with the requirements of ISO 3450, SAE J1473

| | | |
|---|---|---|
| Number of discs/wheel | 1 | |
| Number of accumulators | 2 | |
| Volume, each | 1,0 l | **61 in³** |

# OPERATIONAL DATA VOLVO L120C

| | | STANDARD BOOM | | | | | | | | LONG BOOM | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GENERAL PURPOSE | | | | | | LIGHT MATERIAL | | GENERAL PURPOSE | |
| **Tires 23.5 R25* L2** | | Bolt-on edge | Bolt-on edge | Bolt-on edge | Teeth & Segment | Bolt-on edge | Bolt-on edge | Bolt-on edge | Bolt-on edge | Bolt-on edge | Bolt-on edge |
| Volume, heaped ISO/SAE | $m^3$ | 3,6 | 3,6 | 3,4 | 3,4 | 3,1 | 3.1 | 5,5 | 9,5 | 2,6 | 2,6 |
| | **$yd^3$** | **4.7** | **4.7** | **4.4** | **4.4** | **4.1** | **4.1** | **7.2** | **12.4** | **3.4** | **3.4** |
| Actual volume, 110% | $m^3$ | 4,0 | 4,0 | 3,7 | 3,7 | 3,4 | 3,4 | 6,1 | 5,5 | 2,9 | 2,9 |
| | **$yd^3$** | **5.2** | **5.2** | **4.8** | **4.9** | **4.5** | **4.5** | **7.9** | **7.2** | **3.7** | **3.7** |
| Static tipping load, straight | kg | 13 410 | 12 780 | 12 870 | 13 350 | 13 640 | 13 010 | 12 370 | 12 480 | 11 300 | 10 770 |
| | **lb** | **29,550** | **28,170** | **28,370** | **29,440** | **30,080** | **28,680** | **27,280** | **27,520** | **24,920** | **23,750** |
| at 35° turn | kg | 11 780 | 11 200 | 11 280 | 11 730 | 12 010 | 11 420 | 10 800 | 10 870 | 9 900 | 9 400 |
| | **lb** | **25,980** | **24,690** | **24,870** | **25,860** | **26,480** | **25,180** | **23,810** | **23,970** | **21,830** | **20,730** |
| at full turn | kg | 11 290 | 10 700 | 10 800 | 11 240 | 11 520 | 10 940 | 10 320 | 10 380 | 9 480 | 8 990 |
| | **lb** | **24,890** | **23,590** | **23,810** | **24,780** | **25,400** | **24,120** | **22,760** | **22,890** | **20,900** | **19,820** |
| Breakout force | kN | 140,7 | 140,7 | 134,2 | 145,2 | 152,3 | 140.4 | 106,7 | 92,5 | 172,4 | 158,0 |
| | **lbf** | **31,630** | **31,590** | **30,130** | **32,630** | **34,190** | **31,560** | **23,950** | **20,780** | **38,700** | **35,740** |
| A | mm | 8 090 | 8 200 | 8 150 | 8 210 | 7 970 | 8 080 | 8 530 | 8 830 | 8 340 | 8 450 |
| | **ft in** | **26' 6"** | **26' 11"** | **26' 9"** | **26' 11"** | **26' 2"** | **26'6"** | **28'** | **29'** | **27' 4"** | **27' 9"** |
| E | mm | 1 320 | 1 420 | 1 380 | 1 280 | 1 220 | 1 320 | 1 730 | 1 990 | 1 130 | 1 220 |
| | **ft in** | **4' 4"** | **4' 8"** | **4' 6"** | **4' 2"** | **4'** | **4'4"** | **5' 8"** | **6'6 "** | **3' 8"** | **4'** |
| H*) | mm | 2 830 | 2 760 | 2 790 | 2 750 | 2 910 | 2 840 | 2 500 | 2 280 | 3 520 | 3 450 |
| | **ft in** | **9' 3"** | **9' 1"** | **9' 2"** | **9'** | **9' 7"** | **9'4"** | **8' 2"** | **7'6"** | **11' 6"** | **11' 4"** |
| L | mm | 5 730 | 5 790 | 5 740 | 5 750 | 5 620 | 5 680 | 5 900 | 6 070 | 6 020 | 6 080 |
| | **ft in** | **18' 10"** | **19'** | **18' 10"** | **18' 10"** | **18' 5"** | **18'8"** | **19' 4"** | **20'** | **19' 9"** | **19' 11"** |
| M*) | mm | 1 270 | 1 350 | 1 320 | 1 360 | 1 190 | 1 270 | 1 570 | 1 770 | 1 070 | 1 150 |
| | **ft in** | **4' 2"** | **4' 5"** | **4' 4"** | **4' 6"** | **3' 11"** | **4'2"** | **5' 2"** | **5'10"** | **3' 6"** | **3' 9"** |
| N*) | mm | 1 830 | 1 870 | 1 860 | 1 880 | 1 800 | 1 840 | 1 910 | 1 920 | 2 180 | 2 230 |
| | **ft in** | **6'** | **6'2"** | **6' 1"** | **6' 2"** | **5' 11"** | **6'0"** | **6' 3"** | **6'4"** | **7' 2"** | **7' 4"** |
| V | mm | 2 880 | 2 880 | 2 880 | 2 880 | 2 880 | 2 880 | 3 000 | 3 400 | 2 880 | 2 880 |
| | **ft in** | **9' 5"** | **9' 5"** | **9' 5"** | **9' 5"** | **9' 5"** | **9'5"** | **9' 10"** | **11'2"** | **9' 5"** | **9' 5"** |
| $a_1$ clearance circle | mm | 12 900 | 12 970 | 12 940 | 13 010 | 12 830 | 12 900 | 13 290 | 13 850 | 13 230 | 13 310 |
| | **ft in** | **42' 4"** | **42' 6"** | **42' 5"** | **42' 8"** | **42' 1"** | **42'4"** | **43' 7"** | **45'5"** | **43' 5"** | **43' 8"** |
| Operating weight | kg | 18 830 | 19 020 | 18 980 | 18 860 | 18 700 | 18 910 | 19 190 | 19 390 | 18 810 | 19 030 |
| | **lb** | **41,520** | **41,930** | **41,840** | **41,580** | **41,230** | **41,690** | **42,310** | **42,750** | **41,470** | **41,960** |

*) at dump angle 45°

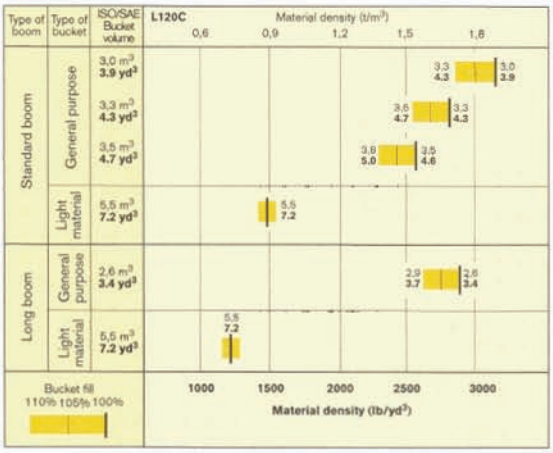
Including counterweight 1

## Bucket selection chart

**The choice of bucket is determined by the density of the material and the bucket fill factor.** The TP-linkage uses a very open bucket design, has very good rollback in all positions and fills the bucket very well. This means that the actual volume carried is often larger than the rated capacity of the bucket. Bucket fill factors for different materials and how they affect the actual bucket volume are shown in the table. **Example: Sand and gravel. Fill factor ~105%. Density 2950 lb/yd³. Result: The 3,9 yd³ bucket carries 4,1 yd³. For optimum stability always consult the bucket selection chart.**

| Material | Bucket fill % | Material density lb/yd³ | ISO/SAE bucket volume, yd³ | Actual volume, yd³ |
|---|---|---|---|---|
| Earth/Clay | ~ 110 | 2865 | 3.9 | 4.3 |
| | | 2530 | 4.3 | 4.7 |
| | | 2950 | 4.7 | 5.2 |
| Sand/Gravel | ~ 105 | 2950 | 3.9 | 4.1 |
| | | 2780 | 4.3 | 4.5 |
| | | 2530 | 4.7 | 4.9 |
| Aggregate | ~ 100 | 3200 | 3.9 | 3.9 |
| | | 2865 | 4.3 | 4.3 |
| | | 2700 | 4.7 | 4.7 |
| Rock | ≤ 100 | 3030 | 3.9 | 3.9 |

The volume handled varies with the bucket fill factor and is often greater than indicated by the bucket's ISO/SAE volume. The table shows optimum bucket choice with regard to the material density.




## Supplemental operating data

| | | Excl counterweight 1 | Add counterweight 2 | Long Boom counterweight 1 | Long Boom counterweight 2 |
|---|---|---|---|---|---|
| **Operating weight** | kg lb | −320 **−705** | +680 **+1499** | − 320 **−705** | +680 **+1499** |
| **Buckets** | | | | | |
| Tipping load full turn | kg lb | −550 **−1212** | +1 100 **+2425** | − 480 **−1058** | +940 **+2072** |

***Counterweight 1*** *may be used in rehandling and material handling.*

***Counterweight 2, and combinations of counterweight 1 and 2,*** *may be used in pallet fork and material arm handling for stabilizing purposes on firm and level ground.*

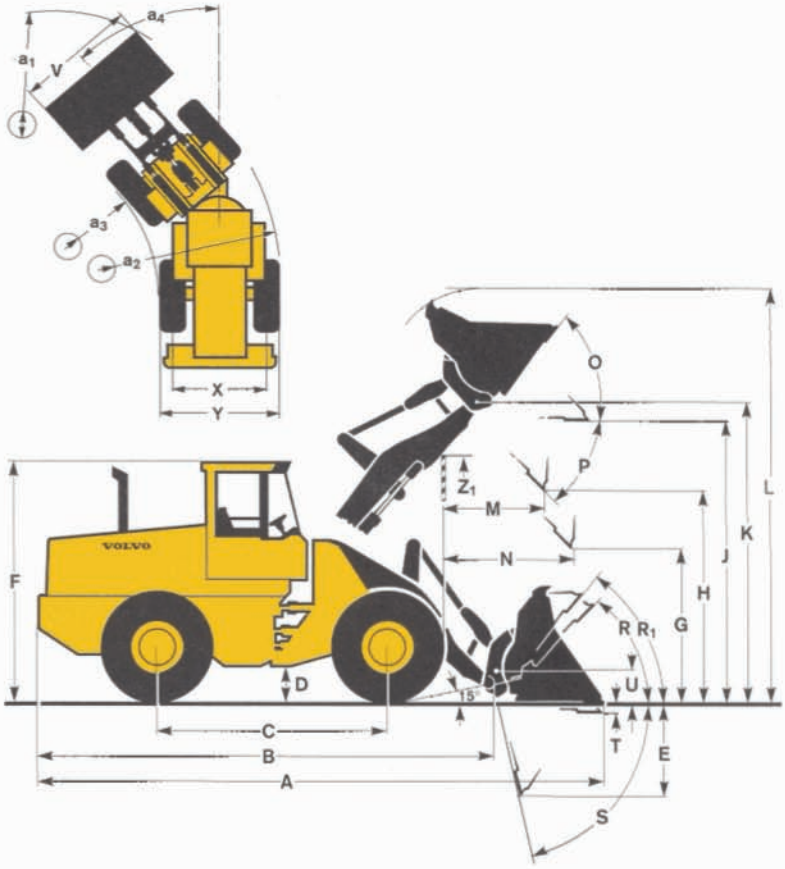
***Counterweight 2*** *replaces hydroinflation of rear tires and must never be combined with tire chains.*

# OPERATIONAL DATA & DIMENSIONS

| TIRES: 23.5 R25* L2 | | |
|---|---|---|
| | STANDARD BOOM | LONG BOOM |
| B | 6 510 mm 21'4" | 7 000 mm 22'11" |
| C | 3 200 mm 10'6" | 3 200 mm 10'6" |
| D | 440 mm 1'5" | 440 mm 1'5" |
| F | 3 400 mm 11'2" | 3 400 mm 11'2" |
| G | 2 135 mm 7'0" | 2 135 mm 7'0" |
| J | 3 800 mm 12'5" | 4 310 mm 14'2" |
| K | 4 100 mm 13'5" | 4 620 mm 15'2" |
| O | 54° | 55° |
| P** | 45° | 45° |
| R | 42° | 42° |
| $R_1$* | 46° | 46° |
| S | 68° | 64° |
| T | 70 mm 2.9" | 130 mm 5.2" |
| U | 480 mm 1'7" | 610 mm 2'0" |
| X | 2 060 mm 6'9" | 2 060 mm 6'9" |
| Y | 2 680 mm 8'9" | 2 680 mm 8'9" |
| Z | 3 380 mm 11'1" | 3 800 mm 12'6" |
| $a_2$ | 5 730 mm 18'10" | 5 740 mm 18'10" |
| $a_3$ | 3 060 mm 10'0" | 3 060 mm 10'0" |
| $a_4$ | ±40° | ±40° |

* Carry position SAE
** P max 48°

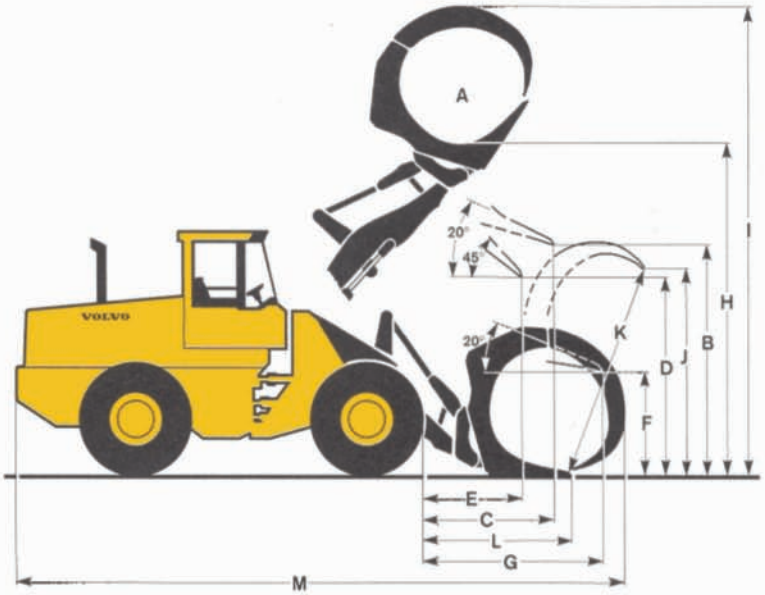
*Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 5998, SAE J818, ISO 8313.*




# SORTING-GRAPPLE (Hook on)

| | | |
|---|---|---|
| A | 2,4 m² | 25.8 ft² |
| B | 3 560 mm | 11'9" |
| C | 1 920 mm | 6'4" |
| D | 2 920 mm | 9'7" |
| E | 1 540 mm | 5'1" |
| F | 1 550 mm | 5'1" |
| G | 2 830 mm | 9'3" |
| H | 4 730 mm | 15'6" |
| I | 6 700 mm | 22'0" |
| J | 2 750 mm | 9'0" |
| K | 2 960 mm | 9'8" |
| L | 2 110 mm | 6'11" |
| M | 8 860 mm | 29'1" |

Tires: 23.5 R25* L2
Operating weight: 19 650 kg **43,320 lb** incl. counterweight 1 & 2
Operating load: 6 400 kg **14,110 lb** incl. counterweight 1 & 2



# STANDARD EQUIPMENT

### Engine
High-performance, low-emission
Dual fuel filters
Water trap fuel
Air cleaner, dry type, dual element, exhaust-aspirated pre-cleaner
Coolant level, sight gauge
Coolant filter
Engine intake manifold preheater
Muffler, spark arresting
Fan guard

### Electrical System
24 V – prewired for optional accessories
Alternator, 24 V, 60 A
Battery disconnect switch
Fuel gauge
Engine coolant temperature gauge
Transmission oil temperature gauge
Hour meter
Horn, electric
Reverse alarm (SAE J994)
Instrument panel with symbols
*Lights*:
- driving (2 front), halogen with high/low beam
- parking lights
- stop/tail combination (2 rear)
- turn signals with hazard warning switch
- working lights, halogen (2 front, 2 rear)
- instrument lighting

*Contronic Monitoring System, ECU with:*
Contronic Display
Brake test
*Shut down to idle at*
- high engine coolant temp
- low engine oil pressure
- high transm. oil temp

Neutral start feature
Test function for warning & monitoring lights
*Warning & monitoring lights*:
- engine oil pressure
- engine coolant temperature
- air cleaner restriction
- alternator malfunction
- working lights
- high beam driving lights
- direction indicator, hazard
- diff. lock
- transmission oil pressure
- transmission oil temperature
- axle oil temperature
- brake system pressure
- parking brake applied
- primary steering system

*Central warning (with buzzer):*
- engine oil pressure
- engine coolant temperature (buzzer)
- transmission oil pressure
- transmission oil temperature
- brake system pressure (buzzer)
- parking brake applied and transmission in forward or reverse (buzzer)
- overspeeding engine
- transmission oil filter
- axle oil temperature

### Drivetrain
Transmission: modulated with single lever control, Automatic Power Shift (APS II), with mode selector and operator-controlled declutch
Forward and reverse switch on hydraulic control console
*Differentials*:
- front 100%, hydraulic differential lock
- rear, conventional

Tires 23.5R25* L2

### Brake System
Wet, internal oil circulation-cooled, outboard-mounted disc brakes, 4-wheel, dual circuit
Brake system, secondary

### Cab
ROPS (SAE J1040) (ISO 3471), FOPS (SAE J231) (ISO 3449).
Steering wheel, adjustable tilt, telescopic
Acoustical lining
Ashtray
Cigarette lighter
Dual service brake pedals
Door lockable (left side access)
Heater/defroster/pressurizer 11 kW, 37,500 Btu/h with four-speed blower fan
Filtered air
Floor mat
Interior light
Interior rearview mirror
Exterior rearview mirrors (2)
Openable window, right-hand side
Safety glass, tinted
Retractable seat belt (SAE J386)
Seat, heated, ergonomically designed, adjustable suspension
Sliding ventilation window in door
Storage compartment
Sun visor
Windshield wiper, front & rear
Windshield washer, front & rear
Intermittent wiper, front

### Hydraulic System
Main valve, 3-spool, pilot-operated
Pilot valve, 3-spool
Vane pump
Bucket lever detent
Bucket leveler, automatic with position indicator, adjustable
Boom lever detents
Boom kickout, automatic, adjustable
Hydraulic control lever safety latch
Boom lowering stopped engine
Hydraulic pressure test ports, quick connect
Hydraulic fluid level, sight gauge
Hydraulic oil cooler

### External Equipment
Isolation mounts: cab, engine, radiator, transmission
Lifting lugs
Side panels, engine hood
Steering frame lock
Vandalism lock, provision for: batteries, engine compartment
Fuel fill strainer
Drawbar hitch
Cab access steps and handrails
Fenders, front & rear with anti-skid-tape
Tie-down points

# OPTIONAL EQUIPMENT

### Service and maintenance equipment
Toolbox
Automatic lube system

### Engine
Coolant preheater (120 V/1500 W)
Pre-cleaner, oil bath type
Pre-cleaner, turbo type
Radiator, corrosion protected

### Electrical System
Attachment lights
Working lights front, extra
Working lights rear, extra
Rotating beacon, amber with collapsible mount
Alternator, brushless
Alternator, 100A

### Drivetrain
Limited-slip differential, rear

### Cab
Installation kit for radio
Hand throttle
Speedometer
Air-suspended operator's seat
Sliding window, right side
Operator seat without heat
Seat belt, 3 in.
Air-conditioner 8 kW, 27,300 Btu/h
Armrest, left side
Parking brake alarm

### Hydraulic System
Hydraulic control, 3rd function
Hydraulic control, 4th function
Hydraulic single-acting lifting function
Biodegradable hydraulic fluid
Boom suspension system
Attachment bracket with separate locking system
Lever detent 3rd function
Arctic kit

### External Equipment
Counterweight 1 320 kg/705 lb
Counterweight 2 680 kg/1499 lb
Fenders, full coverage axle-mounted, rear

### Other Equipment
Comfort Drive Control (CDC)
Slow-moving vehicle emblem
Secondary steering
Long boom

### Tires
23.5–25 L2, L3, L4
23.5 R25*

### Protective Equipment
Guards for:
headlights
radiator grill
rear working lights
side and rear window
windshield
rear lights
Bellyguard front / rear
Cover plate under cab
Heavy-duty main valve guard

### Attachments
Buckets
Fork equipment
Material handling arm
Log grapples
Snowplows
Broom
Cutting edge, 3 pc. reversible, bolt-on
Bucket teeth, bolt-on
Attachment rib kits

*Under our policy of continuous product 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.*

VOLVO

Volvo Construction Equipment Group

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