• Engine output SAE J1995:
  gross 96 kW (130 hp)
  ISO 9249, SAE J1349:
  net 91 kW (124 hp)
• Operating weight: 10,9–12,2 t
  24,000–26,900 lb
• Bucket volume: 1,6–5,0 m³
  2.1–6.5 yd³
• Volvo high-performance, low-emission engine
  – Excellent low rpm performance
  – Meets all known exhaust emission regulations for offroad vehicles

• Volvo transmission with APS II
  – 2nd generation Automatic Power Shift with mode selector
  – Optimizes performance
• Wet disc brakes
  – Fully sealed, oil-circulation cooled, outboard mounted
• Torque Parallel Linkage
  – High breakout torque throughout the working range
  – Excellent parallel lift-arm action
• Care Cab II
  – Pressurized cab with high comfort and safety
• Contronic II monitoring system
• Load-sensing working hydraulics and steering system
• Pilot-operated working hydraulics

Optional equipment
• Power take-off for hydraulically powered attachments
• Hydraulic attachment bracket
• Boom Suspension System
• Comfort Drive Control
Other options, see back page
Central warning system: pre-wired for installation of optional equipment. The system is controlled and capable of storing data for analysis. Electrical system Contronic II monitoring system with increased function control and capability to store data for analysis. Electrical system with circuit boards, well protected by fuses. The system is pre-wired for installation of optional equipment.

Service accessibility: Large, easy-to-open engine access doors with gas struts. Swing-out radiator grille and radiator.

Refill capacities | Engine oil | Gearbox | Brake fluid | Parking brake fluid
--- | --- | --- | --- | ---
Fuel tank | 50.2 | 17 | 4.5 | 4.5
Engine coolant | 10.6 | 16 | 4.2 | 4.2
Hydraulic tank | 17.2 | 24/24 | 6.3/6.3 | 6.3/6.3

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 63 KGE

Max power at: 35 r/min 2.100 r/min
SAE J1995 gross: 96 kW 130 hp
ISO 9249, SAE J1349 net: 91 kW 124 hp
With optional noise reduction kit: 93 kW 126 hp

Rated power at: 36.6 r/min 2.200 r/min
SAE J1995 gross: 94 kW 128 hp
ISO 9249, SAE J1349 net: 89 kW 122 hp
With optional noise reduction kit: 92 kW 125 hp

Max. torque at: 18.3 r/min 1.100 r/min
SAE J1995 gross: 595 Nm 439 lbf ft
ISO 9249, SAE J1349 net: 590 Nm 435 lbf ft
Displacement: 5.48 l 334 in³

Transmission: Volvo Countershaft-type transmission with single-lever control. Fast and smooth directional and speed shifting.

Torque converter: Single-stage

Transmission: Volvo Automatic Power Shift (APS II) with mode selector.

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

Transmission: Volvo HT 90
Torque multiplication: 2.85:1

Speeds, max. forward/reverse: High range Low range (Opt.)
1 km/h mph km/h mph
2 7.0 4.3 1.9 1.2
3 14.0 8.7 3.7 2.3
4 26.0 16.2 7.3 4.5
5 44.0 27.3 13.6 8.5

Oscillation, rear axle: ±13°
Ground clearance at 13° oscillation: 420 mm 16.5 in

A simple and reliable brake system that ensures high availability and safety. Self-adjusting oil circulation-cooled wet disc brakes give long service intervals.

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

Parking brake: Mechanically operated drum brake on front axle input shaft. Electro-hydraulically operated (option).

Secondary brake: Either the service brake circuits or the parking brake fulfills the safety requirements.

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

Number of discs/wheel: 1
Number of accumulators: 3
Volume, each: 0.5 l 30.5 in³

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

Torque converter: Single-stage

Transmission: Volvo Countershaft-type transmission with single-lever control. Fast and smooth directional and speed shifting.

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

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

Number of discs/wheel: 1
Number of accumulators: 3
Volume, each: 0.5 l 30.5 in³
**OPERATIONAL DATA, VOLVO L70D**

<table>
<thead>
<tr>
<th>Tires 20.5 R25</th>
<th>GENERAL PURPOSE</th>
<th>GRADING</th>
<th>LIGHT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bolt-on edge</td>
<td>Bolt-on edge</td>
<td>Bolt-on edge</td>
</tr>
<tr>
<td>Volume, heaped ISO/SAE</td>
<td>1.9</td>
<td>1.9</td>
<td>1.7</td>
</tr>
<tr>
<td>m³</td>
<td>yd³</td>
<td>m³</td>
<td>yd³</td>
</tr>
<tr>
<td>Volume at 110% fill factor</td>
<td>2.5</td>
<td>2.5</td>
<td>2.2</td>
</tr>
<tr>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Static tipping load, straight</td>
<td>19,250</td>
<td>18,210</td>
<td>19,440</td>
</tr>
<tr>
<td>at 35° turn</td>
<td>7,810</td>
<td>7,370</td>
<td>7,900</td>
</tr>
<tr>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>at full turn</td>
<td>17,220</td>
<td>16,250</td>
<td>17,420</td>
</tr>
<tr>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Breakout force</td>
<td>88,9</td>
<td>79,4</td>
<td>92,5</td>
</tr>
<tr>
<td>kN</td>
<td>lbf</td>
<td>kN</td>
<td>lbf</td>
</tr>
</tbody>
</table>

*) at 45° dump angle  
**) attachment data applies only to original Volvo attachments

**BUCKET SELECTION CHART**

The choice of 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 TP linkage features: • Open bucket design. • Very good roll back in positions. • Good bucket fill performance.

Example: Sand and gravel. Fill factor ~ 105%. Density 2865 lb/yd³. Result: The 2.3 yd³ bucket carries 2.4 yd³. For optimum stability, always consult the bucket selection chart.

<table>
<thead>
<tr>
<th>Material</th>
<th>Bucket fill %</th>
<th>Material density</th>
<th>ISO/SAE bucket volume</th>
<th>Actual volume</th>
<th>Type of bucket</th>
<th>BD/SIE Bucket volume</th>
<th>L70D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth/Clay ~ 110</td>
<td>~ 1.8</td>
<td>~ 3035</td>
<td>~ 1.6</td>
<td>~ 1.8</td>
<td>~ 2.1</td>
<td>~ 1.8</td>
<td>~ 2.3</td>
</tr>
<tr>
<td>Sand/Gravel ~ 105</td>
<td>~ 1.9</td>
<td>~ 3200</td>
<td>~ 1.6</td>
<td>~ 1.7</td>
<td>~ 1.7</td>
<td>~ 1.7</td>
<td>~ 1.9</td>
</tr>
<tr>
<td>Aggregate ~ 100</td>
<td>~ 2.1</td>
<td>~ 2865</td>
<td>~ 1.8</td>
<td>~ 1.8</td>
<td>~ 1.8</td>
<td>~ 1.8</td>
<td>~ 1.9</td>
</tr>
<tr>
<td>Rock ≤ 100</td>
<td>~ 1.7</td>
<td>~ 2865</td>
<td>~ 1.6</td>
<td>~ 1.6</td>
<td>~ 1.6</td>
<td>~ 1.6</td>
<td>~ 1.6</td>
</tr>
</tbody>
</table>

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

**SUPPLEMENTAL OPERATING DATA**

<table>
<thead>
<tr>
<th>No additional counterweight available</th>
<th>Tires</th>
<th>Add extended fenders</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>17.5 R25* L2</td>
<td>17.5-25* L3</td>
</tr>
<tr>
<td>Width over tires</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td>Tipping load, full turn</td>
<td>kg</td>
<td>lb</td>
</tr>
</tbody>
</table>
Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 5998, SAE J818, and ISO 8313.

**OPERATIONAL DATA & DIMENSIONS**

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

**MATERIAL HANDLING ARM (Hook on)**

Order No: 92007
Operating weight: 11 200 kg (24,700 lb)

**PALLET FORK (Hook on)**

Fork tine order no. (R/L): 93525/93526
Length: 1 200 mm 3'11"
Fork frame order no: 80041
Width: 1 500 mm 4'11"
Rated operating load*: 4 290 kg 9,460 lb
at load center distance: 600 mm 2'0"
Operating weight: 11 250 kg 24,800 lb
Incl. optional counterweight

* acc. std EN 474-3, firm and level ground
**STEERING SYSTEM**

Low effort steering provides fast work cycle times. Power-efficient system provides good fuel economy, good directional stability and smooth ride.

**Steering system:** Load-sensing hydrostatic articulated steering.

**System supply:** The steering system has priority feed from a load-sensing axial piston pump.

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

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

<table>
<thead>
<tr>
<th>Bore</th>
<th>Stroke</th>
<th>Relief pressure</th>
<th>Max. flow</th>
<th>Articulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>63 mm</td>
<td>370 mm</td>
<td>21 MPa</td>
<td>80 l/min</td>
<td>±40°</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

The Load-Sensing hydraulic system delivers the exact amount of oil required for the function used. At the same time, complete control of the hydraulics is achieved throughout the entire lifting range. The high capacity of the pumps results in quick and smooth movements.

**System supply:** One load-sensing double axial piston pump with variable displacement. The steering function 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 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: rollback, hold and dump. Inductive/magnetic automatic bucket positioner, can be switched on and off.

**Cylinders:** Double-acting cylinders for all functions.

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

<table>
<thead>
<tr>
<th>Axial piston pump</th>
<th>Flow rate at</th>
<th>Pilot system</th>
<th>Cycle times</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relief pressure</td>
<td>26.0 MPa</td>
<td>160 l/min</td>
<td>10 MPa</td>
</tr>
<tr>
<td>Flow rate at 10 MPa</td>
<td>42.3 US gpm</td>
<td>5.4 s</td>
<td>1,1 s</td>
</tr>
<tr>
<td>and engine speed</td>
<td>1,200 rpm</td>
<td>3.0 s</td>
<td>9.5 s</td>
</tr>
<tr>
<td>Lift cylinder</td>
<td>3.0 MPa</td>
<td>1,1 s</td>
<td>9.5 s</td>
</tr>
</tbody>
</table>

**CAB**

Care Cab II with easy entry and wide door opening. Inside of cab lined with noise-absorbent materials. Sound and vibration suppressing suspension. Good all-round visibility through large glass areas. Curved front windshield of green-tinted glass. Ergonomically positioned controls and instruments permit a comfortable operating position.

**Instrumentation:** All important information is centrally located in the operator’s field of vision. Center console display for Conronic II monitoring system.

**Heater and defroster:** Heating element with filtered fresh air and fan with four 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. The forces from the retractable seatbelt are absorbed by the seat rails. Meets ISO/DIS 7096–1997.

**Standard:** 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 Restrain System” (SAE J386).

<table>
<thead>
<tr>
<th>Emergency exits</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound level in cab ISO 6396</td>
<td>71 dB (A)</td>
</tr>
<tr>
<td>External sound level</td>
<td></td>
</tr>
<tr>
<td>According to ISO 6395</td>
<td>LwA 106 dB (A)</td>
</tr>
<tr>
<td>According to EU 2002 requirements</td>
<td>LwA 104 dB (A)</td>
</tr>
<tr>
<td>According to Blue Angel</td>
<td>LwA 101 dB (A)</td>
</tr>
<tr>
<td>Ventilation</td>
<td>9 m³/min</td>
</tr>
<tr>
<td>Heating capacity</td>
<td>11 kW</td>
</tr>
<tr>
<td>Air conditioning (optional)</td>
<td>8 kW</td>
</tr>
</tbody>
</table>

**LIFT-ARM SYSTEM**

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

<table>
<thead>
<tr>
<th>Lift cylinder</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore</td>
<td>100 mm</td>
</tr>
<tr>
<td>Piston rod diameter</td>
<td>70 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>734 mm</td>
</tr>
<tr>
<td>Tilt cylinder</td>
<td>1</td>
</tr>
<tr>
<td>Bore</td>
<td>150 mm</td>
</tr>
<tr>
<td>Piston rod diameter</td>
<td>80 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>440 mm</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT

**Engine**
High performance, low emission
Volvo TD 63 KDE
Dual fuel filters
Cold starting aid
Air cleaner, dry type, dual element, exhaust-aspirated precleaner
Coolant level, sight gauge
Muffler, spark arresting
Coolant filter
Fan guard
Primary fuel filter with water separator

**Electrical System**
24 V – prewired for optional accessories
Alternator, 24 V, 60 A
Battery disconnect switch
Gauges:
- Fuel gauge
- Engine coolant temperature gauge
- Transmission oil temperature gauge
- Hourmeter
Horn, electric
Instrument panel with symbols
Lights:
- Driving (2-front), halogen head lights with high/low beam
- Parking lights
- Stop/tail combination (2 rear)
- Turn signals with separate hazard warning switch
- Halogen working lights (2 front/2 rear)
- Instrument lighting
- Reverse alarm (SAE J994)

**Electrical System (Continued)**

**Contronics II Monitoring System, ECU**
Contronics II display
Engine shutdown to idle
- High engine coolant temperature
- Low engine oil pressure
- High transmission oil temperature
Neutral start feature
Brake performance test function
Test function for warning and indicator lights
Warning and indicator lights:
- Alternator malfunction
- Oil pressure, engine
- Oil pressure, transmission
- Brake pressure
- Parking brake applied
- Hydraulic oil level
- Hydraulic oil temperature
- Axle oil temperature
- Primary steering
- High beams
- Turn signals
- Rotating beacon
- Preheating coil
- Differential lock (front axle)
- Coolant temperature
- Transmission oil temperature
- Brake charging
- Air cleaner restriction
- Hydraulic oil level
- High speed/gear
- Overspeed engine

**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
Tires 17.5R25 L2
100% differential lock, front axle

**Brake System**
Wet, internal oil-circulation cooled, outboard-mounted disc brakes, 4-wheel, dual circuit brake system
Secondary brake system, accumulator supplied
Parking brake

**Cab**
ROPS (SAE J1040) (ISO 3471)
FOPS (SAE J231) (ISO 3449)
Acoustical lining
Ashtray
Cigarette lighter
Cab access steps and handrails
Dual service brake pedals
Door lockable (left side)
Heater/defroster/pressurizer with four speed blower fan
Filtered air
Floor mat
Dome light
2 interior rearview mirrors
2 exterior rearview mirrors
Openable window, right-hand side
Steering wheel, adjustable tilt and telescopically adjustable lever console
Tinted safety glass
Retractable seat belt (SAE J386)
Ergonomically designed operator's seat with adjustable suspension

Optional Equipment (Standard in certain markets)

**Service and Maintenance**
Tool box
Automatic lube system

**Engine**
Coolant pre-heater (120 V/750 W) or (240 V/750 W)
Pre-cleaner, oil bath type
Pre-cleaner, turbo type

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

**Drivetrain**
Transmission, 8-speed
Limited slip differential, rear
Limited slip differential, front and rear

**Cab**
Installation kit for radio
AM/FM radio with tape deck

**Heated operator seat**
Armrest, left side
Seat belt, 3 in, extended length
Sliding window, right side
Hand throttle
Air suspended operator's seat
Air conditioner
Noise reduction kit, cab
Parking brake alarm
Open ROPS version
Sunblinds
Ventilation filter for asbestos environment

**Hydraulic System**
Hydraulic control, 3rd function
Hydraulic control, 4th function
Hydraulic controls, 5th/6th function
Hydraulic power take off, heavy duty
Hydraulic single-acting lifting function
Boom Suspension System
Biodegradable hydraulic fluid
Leaver detent 3rd function
Artic kit
Single lever control

**External Equipment**
Fenders, axe-mounted rear
Fender wideners

**Other Equipment**
Comfort Drive Control (CDC)
Slow moving vehicle sign
Secondary steering
Electro-hydraulically operated parking brake

**Tires**
20.5–25, 20.5R25*, 555/70 R25

**Protective Equipment**
Guards for:
- Headlights
- Rear working lights
- Rear lights
- Windshield
- Air cleaner restriction
- Cover plate under cab
- Belly guards, front and rear

**Attachments**
Buckets:
- Straight with/without teeth
- Spade nose with/without teeth
- High tip
- Light material
Three piece, reversible bolt-on cutting edge
Bolt-on and weld-on bucket teeth
Log grapples
Fork equipment
Material handling arm
Diagonal snow blade
Broom
Attachment rib kit

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Under our policy of continuous product improvement, we reserve the right to change specifications and designs without prior notice. The illustrations do not necessarily show the standard version of the machine.