4600 B

SPECIFICATION VOLVO BM 4600 B COMPACTOR



The high-capacity compactor

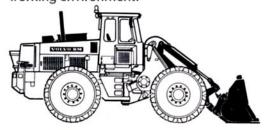
The Volvo BM 4600B Compactor is designed to compact and level the high volumes of refuse and waste generated daily in large urban areas.

The 4600B is extremely versatile—it will doze, carry, break up and compact the waste and when infill is complete; dig, carry and

spread cover material for site reinstatement. It has large, effective compactor wheels, plus underbody and side protection plates to guard against damage to vulnerable points.

The machine is both stable and highly manoeuvrable due to uniform weight distribution and has a loader unit combining large lifting and breakout forces with long reach.

The comfortable cab is safe and quiet with a high-capacity heating and ventilation system providing filtered air to create a superb working environment.





Flywheel rating

Gross rating

Max. torque

stages

No. of cylinders Bore Stroke Displacement Compression ratio Air cleaning in three

ENGINE

Volvo TD 101G, a 6-cylinder, in-line, directinjected, turbocharged, 4-stroke diesel engine with wet, replaceable cylinder linings.

185 kW at 36.7 rps DIN 70020 (252 hp at 2200 rpm DIN)

194 kW at 36.7 rps SAE J 1349 Dec 80 (264 hp at 2200 rpm SAE)

962 Nm at 23.3 rps DIN 70020 (709 lbf ft at 1400 rpm DIN)

980 Nm at 23.3 rps SAE J 1349 Dec 80

(723 lbf ft at 1400 rpm SAE)

6 120.65 mm (4.75 in) 140 mm (5.5 in) 9.6 litres (586 in³) 15:1

1. Cyclone precleaner with exhaust ejector

2. Paper filter

3. Catch-all safety filter

ELECTRICAL SYSTEM



Battery capacity

Alternator

Starter motor

Batteries 2 × 12 V (connected in series) Voltage 24 V

135 Ah 1540 W (55 A) 6.6 kW (9 hp)

Central warning lamp for the following functions:

(For certain markets only)

Engine oil pressure. Brake pressure. Parking brake. Engine temperature. Transmission

fluid temperature



TORQUE CONVERTER

Type Single-stage Torque multiplication ratio 2.69:1



TRANSMISSION

Type: Power-shift

Designation: Volvo BM HT 200

Number of gears forward/reverse 3/3



AXLES

Fully floating axle shafts with planetary hub reductions.

Front axle:

Rear axle:

Designation Differential lo

Differential lock

Designation

Oscillation

Volvo BM AH 70A

100 % lock-up (dog clutch)

Volvo BM AH 70 D ± 15° (500 mm)



BRAKE SYSTEM

Service brakes: Air-over-hydraulic-operated disc brakes, dual circuit system.

Brake area: Front Rear

Air reservoir volume

Parking brake

792 cm² (123 in²)/wheel 792 cm² (123 in²)/wheel 2×20 litres + 1×10 litres $(2 \times 4.4$ UK gal + 1×2.2 UK gal)

Encapsulated wet multiple-disc brake incorporated in transmission

Parking brake area: porated in transmiss 1547 cm² (240 in²)



WHEELS

Type: T
m
Drum width
Drum diameter 1
Pad height

Trapezoidal pads	Knife wheels
mm (ft in)	mm (ft in)
750 (2'6")	750 (2'6")
1400 (4'7")	1400 (4'7")
135 (5.3")	168 (6.6")



STEERING

Orbitrol steering with flow amplification

±37°

Steering angle Lock-to-lock turns of wheel Steering cylinder, bore/stroke Piston rod diameter Oil pump, type Output at 10 MPa (1450 psi) and 36.7 rps (2200 rpm)

4.3 110/423 mm (4.3/16.7 in) 50 mm (2.0 in) Vane pump 5.7

190 l/min (41.8 UK gal/min) 14 MPa (2030 psi)



Relief pressure

Relief pressure

HYDRAULIC SYSTEM

Pump, type (working hydraulics): Vane pump

Output at 10 MPa (1450 psi) and 36.7 rps (2200 rpm)

380 l/min (83.6 UK gal/min)

17 MPa (2465 psi)

Oil filter: Full-flow filtration through filter cartridge with magnetic core.

Hydraulic cylinders:

Lift — bore/stroke 170/892 mm (6.7/35.1 in)
Piston rod diameter 80 mm (3.1 in)
Tilt — bore/stroke 140/983 mm (5.3/38.7 in)
Piston rod diameter 70 mm (2.8 in)

Loader unit:

Control valve: Double-acting 3-spool valve. Lift function has hold for lift and float position. Bucket positioner and boom kick-out (disconnectable). The control valve is servo-assisted.

Raise with SAE workload 7.8 s Lower, without load 3 s Dump 4 s



SERVICE REFILL CAPACITIES

THE RESIDENCE OF THE PARTY OF T	Litres	UK gal	US gal
Crankcase	31	6.8	8.2
Fuel tank	360	79.2	95.1
Cooling system	50	11	13.2
Hydraulic system, total	300	66	79.3
Hydraulic tank	230	50.6	60.8
Transmission and torque			
converter, total	45	9.9	11.9
Front axle differential and hubs	45	9.9	11.9
Rear axle differential and hubs	56	12.3	14.8



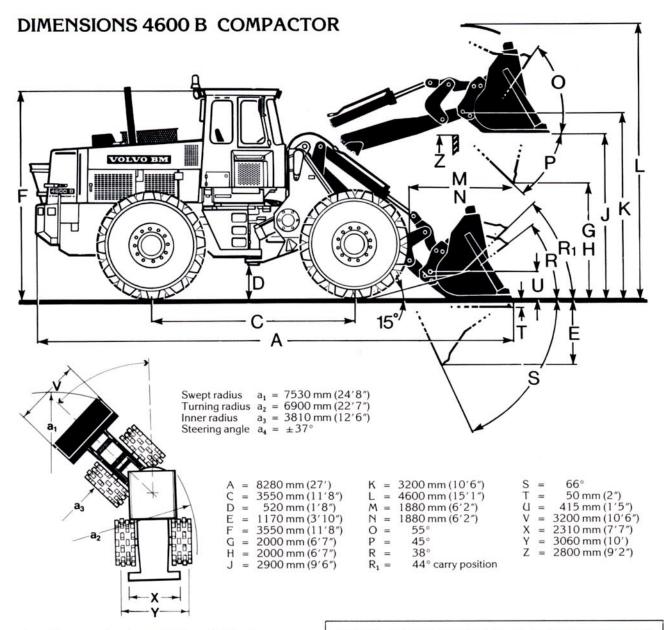
CAB

Tested and approved as a safety cab in accordance with Article 3 Section 8 of the Swedish Environment Protection Act and meets ISO 3471-1980, ROPS (SS783), ISO 3449-1980

FOPS (SS782) and SS/ISO 6055 "Overhead guards for forklift trucks". The cab is mounted on 4 rubber pads and is well insulated and weathertight. All windows have bronze-tinted glass. The windshield is of laminated safety glass, all other windows have tempered glass. Heater and defroster: Heating element with filtered fresh air and

Heater and defroster: Heating element with filtered fres 3-speed fan plus defroster for front, rear and side windows.

Ventilation Operator's seat Seat belt Max. 5 air changes/min ISRI GI 6000/575 Standard

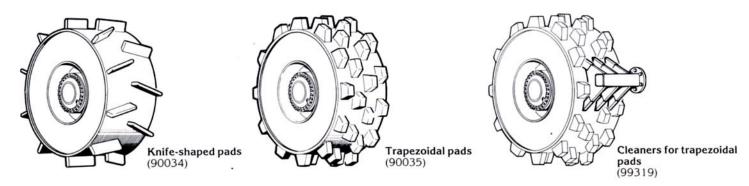


Ground pressure. At a slump of 100 mm (4.0 in), the contact area between the wheels and the ground is 5400 cm2 (837 in2), which gives a ground pressure of:

- Front wheel 1.13 kg/cm2 (16.1 psi)
- Rear wheel 1.31 kg/cm2 (18.6 psi)

Wherever applicable, specifications are in accordance with SAE Standard J 732 c and J 742 b and J 818 b. Specifications are based on a machine equipped with a 3.8 m3 (5 yd3) pin-on straight-lip bucket without teeth and compactor wheels with trapezoidal pads and cleaners.

WHEELS



MACHINE CAPACITY

Operating load at full turn	kg (lb)	6900 (15212)
Breakout force	kgf (lbf)	15800 (34832)
Machine weight	kg (lb)	26540 (58510)

Weight distribution:	PET S	
Front	kg (lb)	12440 (27425)
Rear	kg (lb)	14100 (31085)



Safety & comfort

- Cab ROPS and FOPS tested
- Cab heating with filtered fresh air intake and defroster
- Seat belt
- Safety glass, windshield
- Tinted glass
- Ergonomically designed and adjustable operator's seat
- Rear-view mirrors, external, 2
- Rear-view mirror, internal, 1
- Lights: Headlights high/low/asym. halogen Parking lights Working lights forward (2) Working lights rear (2) halogen Brake lights Tail lights Cab lighting Instrument lighting
- Protective grilles for rear lights
- Utility box in cab
- Pressure gauge for air brake system
- Instrument panel with symbols
- Direction indicators
- Sun visor
- Safety start Hazard flashers
- Wipers, front and rear windows
- Horn
- Tyre inflation outlet
- Ashtray
- Cigarette lighter
- Lifting lugs



Engine & electrical system

- Extraction fan
- Fuel gauge
- Temperature gauge, engine
- Temperature gauge, hydraulic transmission
- Hour counter
- Electrical outlet 24 V
- Battery disconnect switch
- Alternator
- Air cleaner with ejector discharge
- Pilot lamps for: Working lights front and rear, battery charging, high beam, direction indicators, engine oil pressure, transmission oil pressure, differential lock. parking brake, air brake
- pressure, hazard flashers, air cleaner Warning buzzer when parking brake is applied

For certain markets only:

Central warning lamp: Brake pressure, engine oil pressure. engine temperature, transmission temperature, parking brake

Compactor equipment

- Underbody and side protection plates
- Compactor wheels



Power transmission

- Differential lock (front axle)
- Transmission cut-out valve
- Single-lever gear control



Hydraulic system

- Control valve (3-spool). Servo-assisted
- Bucket position indicator
- Bucket positioner and boom kick-out
- Vane pumps

OPTIONAL EQUIPMENT

(Standard equipment on certain markets)

- Air conditioning
- Heated operator's seat
- Attachment lighting
- Rotating beacon with collapsible mount
- Tool kit
- Intermittent wipers Washers for front and rear windows
- Industrial hitch

- Dual brake pedals
- Electric engine heater,
- Rain guard for exhaust pipe Hand lamp 24 V
- Electrical equipment, Norway
- Protective grilles for rear lights in grill
- Speedometer

- Vent window, left-hand side Third hydraulic control
- Fourth and fifth hydraulic controls
- Extra fuel filter
- Tyre inflation equipment
- Hydraulic attachment bracket
- ASS-94 equipment
- Tyre cleaners

- Preheating coil
- Lever lock
- Road-dependent emergency steering Oil-bath pre-cleaner
- Radio console without radio Tropical version
- Working lights, rear (halogen)



VOLVO BM AB ESKILSTUNA SWEDEN

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

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