

VOLVO BM 860



Power

— Volvo TD 60 A
Turbo charged diesel 125 kW (170 hp)
Full power shift transmission

Off-road performance

Articulated steering — High traction
Excellent weight distribution

Stability

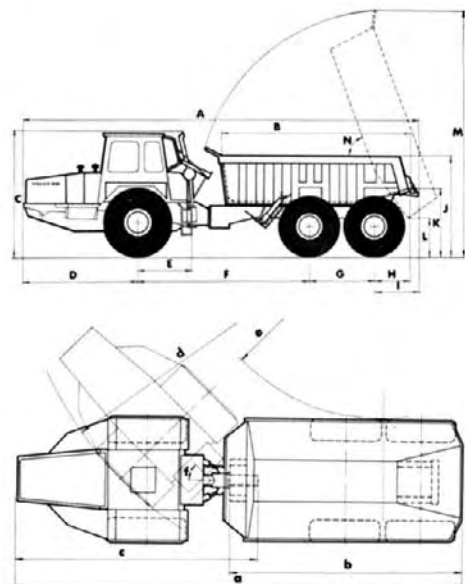
Low centre of gravity — Large wheels
Floating action rear bogie

Economy

Standard Volvo components — Easy to service
Low fuel consumption

Safety-Comfort

Impact tested comfort cab — Noise level under
N 85 dB curve — Finger tip steering



Dimensions

	mm	ft	in.		mm	ft	in.		mm	ft	in.
A	9290	30	6	N	70°			a	9160	30	1
B	4480	14	8	R	410	1	4	b	5000	16	5
C	2800	9	2	S	1070	3	6	c	4900	16	1
D	2720	8	11	X	440	1	5	d	7500	24	7
E	1280	4	2	Y	1970	6	6	e	4100	13	5
F	4050	13	3					f'	45°		
G	1540	5	1					o	2480	8	2
H	850	2	9					p	2380	7	10
I	980	3	2					q	1570	5	2
J	2300	7	6								
K	1550	5	1								
L	800	2	7								
M	5850	19	2								

Specifications based on dumper with 11 m³ (14.4 yd³) body.

Front tyres	18.00×25
Rear tyres	16.00×24

SPECIFICATION VOLVO BM 860 DUMPER

Engine

Type: Volvo TD 60 A
6 cyl. in line, direct injection, 4 stroke cycle. Turbo charged

Output SAE 125 kW at 41.5 rev/s
170 hp at 2500 rev/min

Torque SAE 503 Nm at 33.5 rev/s
51.3 kpm at 2000 rev/min

Bore x stroke: 98.43 x 120 mm (3 7/8 x 4 7/8 in.)

Cylinder volume: 5.48 litres (334 in.³)

Specific fuel consumption: 172 g/hp (0.38 lb/hp) DIN at 2000 rev/min

Electrical system

Voltage: 12 V
Alternator: 450 W
Starter: 3 kW (4 hp)
Battery capacity: 152 Ah

Power transmission

Torque converter: Single stage white freewheeling stator and automatic lock-up clutch (DIRECT-DRIVE)

Stall ratio: 2.3:1

Gear box: Full power shift with 4 forward, 4 reverse gears

Axles: Front; integral reduction and differential lock
Rear; hub reduction and differential lock
4 wheel drive engaged and disengaged by pneumatic control

Brakes

Air operated 6 wheel braking system
Mechanical parking brake on 4 wheels
Loading brake incorporated in gear lever
Automatic Emergency braking system
Total braking area: 6485 cm² (1005 in.²)
Air pressure: 6.2—7 kp/cm² (88—100 lbf/in.²)
Exhaust brake standard

Tyres

Front wheels 18.00 x 25/16 EM
Rear wheels 16.00 x 24/16 EM

Steering

Full hydraulic articulated steering with mechanical follow up.
Steering angle (each direction): 45°
Nos of steering wheel turns from lock to lock: 3.5
Pump capacity: 140 l/min (31 gall./min)
Max. working pressure: 120 kp/cm² (1700 lbf/in.²)
Steering cylinders
Bore x stroke: 100 x 500 mm

Tipping controls

Single lever with 3 positions: LOWER — HOLD — DUMP
Automatic kick-out at pre-determined dump angle 70°
Pump capacity: 140 l/min (31 gall./min)
Max. working pressure: 120 kp/cm² (1700 lbf/in.²)
8 stage tipping cylinders:
Largest bore: 140 mm (5 1/2 in)

Operating specifications

Weight distribution	Front axle	Tandem axle	Total weight
Unladen machine weight	7.300/16.100	5.500/12.100	12.800/28.200
With 13,2 ton load kg/lb	10.000/22.050	16.000/35.250	26.000/57.300
With 18,5 ton load kg/lb	10.500/23.150	20.800/45.850	31.300/69.000

Body volume: struck 8.3 m³ (10.8 yd³)
heaped 11 m³ (14.4 yd³)

Overall width: 2.480 mm
height: 2.800 mm
length: 9.290 mm

8 ft 2 in.
9 ft 2 in.
30 ft 2 in.

Ground clearance
Front 440 mm
Rear 410 mm

1 ft 5 in.
1 ft 4 in.

Outer turning radius: 7.500 mm 24 ft 7 in

Speed ranges:

1	2	3	4
0—6 km/h	0—10 km/h	0—18 km/h	0—30 km/h
0—3.7 mph	0—6.2 mph	0—11.2 mph	0—18.6 mph

Dump time 16 seconds
Dump angle 70°

Service capacities:

	l	imp. galls
Coolant	30 l	(8 1/2 galls)
Engine oil	17 l	(3 3/4 galls)
Fuel tank	225 l	(50 galls)
Transmission oil	22 l	(4 3/4 galls)
Hydraulic oil	135 l	(29 1/4 galls)
Compressed air tanks, front:	26 l	(5 3/4 galls)
tanks, rear:	40 l	(8 3/4 galls)

Standard equipment

Impact tested steel safety cab
Cab heater with fresh-air intake and defroster
Adjustable spring-cushioned, shock absorbing seat
Windscreen washer/wiper
Rear view mirrors (2)
Full instrumentation:
Gauges for: engine rev. counter/hour counter
engine coolant temperature
fuel gauge
compressed air (brakes)

Warning lights for: engine oil pressure
transmission oil temperature
transmission oil pressure
battery charging
main beam
parking brake
direction indicators

Sun visor
Mountings for safety belts
Door retainers in open position
Cigarette lighter and ashtray
Horn
Parking/Working lights. Headlight dimmer
Reversing light
Direction indicators and hazard warning system
Interior cab light
Air cleaner indicator
Removeable roof panel
Tolkit/tyre pumping hose
Enamelled spark-arrester muffler
Front townig eyes
Spill guard for rear window

Extra equipment

Extra fuel filter
Engine heater, gas or electric
Rotating flashing beacon
Wear strips for standard body
Rock version body with/without wear strips
Rear extension to body
Towing hitch
Exhaust heated body
Front wheels 18.00 x 25 XRB or HRL
Rear wheels 14.00 x 24 XRB or HRL
20.5 x 25 XRB

Lower tail gate
Top-hinged tail gate
Fire extinguisher
Safety belt
Radio

We reserve the right to change specifications and design without notice.

VOLVO BM

VOLVO BM AB ESKILSTUNA SWEDEN

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ENGELSKA