

# 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

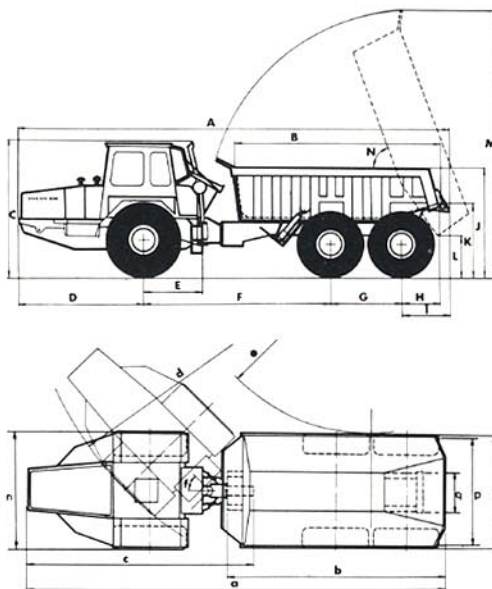
Low centre of gravity – Large wheels  
 Floating action rear bogie

## 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 <sup>o</sup>			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 <sup>o</sup>	
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 m<sup>3</sup> (14.4 yd<sup>3</sup>) body.

Front tyres 18.00x25  
 Rear tyres 16.00x24

# 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<sup>7</sup>/<sub>8</sub> x 4<sup>3</sup>/<sub>4</sub> in.)

Cylinder volume: 5.48 litres (334 in.<sup>3</sup>)

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

## Electrical system

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

## Power transmission

Torque converter: Single stage with 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 cm<sup>2</sup> (1005 in.<sup>2</sup>)  
Air pressure: 6.2-7 kp/cm<sup>2</sup> (88-100 lbf/in.<sup>2</sup>)  
Exhaust brake standard

## Tyres

Front wheels 18.00x25/16 EM  
Rear wheels 16.00x24/16 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/cm<sup>2</sup> (1700 lbf/in.<sup>2</sup>)  
Steering cylinders  
Bore x stroke: 100x500 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/cm<sup>2</sup> (1700 lbf/in.<sup>2</sup>)  
6 stage tipping cylinders:  
Largest bore: 140 mm (5<sup>1</sup>/<sub>2</sub> 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 m<sup>3</sup> (10.8 yd<sup>3</sup>)  
heaped 11 m<sup>3</sup> (14.4 yd<sup>3</sup>)

Overall width: 2.480 mm 8 ft 2 in.  
height: 2.800 mm 9 ft 2 in.  
length: 9.290 mm 30 ft 2 in.

Ground clearance  
Front 440 mm 1 ft 5 in  
Rear 410 mm 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 18 seconds  
Dump angle 70°

## Service capacities:

	l	imp. galls
Coolant	30 l	(6 <sup>1</sup> / <sub>2</sub> galls)
Engine oil	17 l	(3 <sup>3</sup> / <sub>4</sub> galls)
Fuel tank	225 l	(50 galls)
Transmission oil	22 l	(4 <sup>3</sup> / <sub>4</sub> galls)
Hydraulic oil	135 l	(29 <sup>3</sup> / <sub>4</sub> galls)
Compressed air tanks, front:	26 l	(5 <sup>3</sup> / <sub>4</sub> galls)
tanks, rear:	40 l	(8 <sup>3</sup> / <sub>4</sub> 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 towing 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 18.00x25 XRB or HRL  
Rear wheels 14.00x24 XRB or HRL  
20.5 x25 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

Ref. No. 21 1 669 1150  
ENGELSKA