

# VOLVO BM 860 TC



## **Power**

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

## **On-off road performance**

Articulated steering  
 Torque converter with lock-up clutch  
 Excellent weight distribution

## **Stability**

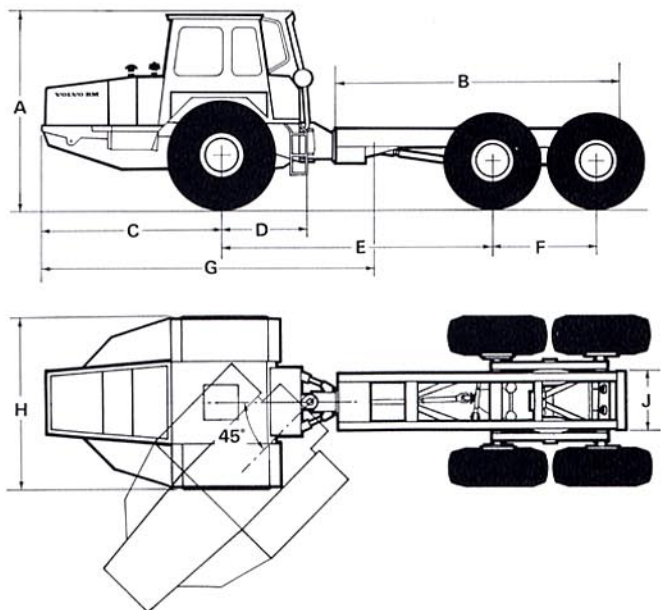
Large wheels  
 Floating action rear bogie

## **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				G	16	5	5000
	ft.	in.	mm.	H	8	2	2480
A	9	2	2800	J	3	1	840
B	14	0	4150	Specifications based on 860 TC with Front tyres 18.00×25 Rear tyres 16.00×24			
C	8	11	2720				
D	4	2	1280				
E	13	3	4050				
F	5	1	1540				

# SPECIFICATION VOLVO BM 860 TC

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

Output SAE 125 kW at 41,5 r/s  
 170 hp at 2500 r/min

Torque SAE 503 Nm at 33,5 r/s  
 51.3 kpm at 2000 r/min  
 370 lbf at 2000 r/min

Bore × stroke 98.43×120 mm (3<sup>7</sup>/<sub>8</sub>×4<sup>3</sup>/<sub>4</sub> in.)  
 Cylindervolume 5.48 dm<sup>3</sup> (5.48 l)  
 334 in<sup>3</sup>

Specific fuel consumption 234 g/kWh at 33,5 r/s  
 172 g/hph (0.38 lb/hph) DIN

**Electrical system**  
 Voltage 12 V  
 Alternator 450 W  
 Starter 3 kW (4 hp)  
 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 18.00×25/16 EM  
 Rear wheels 16.00×24/16 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: 12 MPa  
 120 kp/cm<sup>2</sup> (1700 lbf/in.<sup>2</sup>)

Steering cylinders  
 Bore × stroke: 100×500 mm

## Operating specifications

	Front axle	Tandem axle	Total	
Unladen weight kg/lb	6740/14900	3300/7300	10040/22200	
Max axle pressure kg/lb	10500/23100	20800/45900	31300/69000	
Load incl. superstructure kg/lb	3760/8300	17500/38600	21260/46900	
Overall width	2.480 mm	8 ft 2 in		
height	2.800 mm	9 ft 2 in		
length	9.200 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 0—6 km/h 0—3.7 mph	2 0—10 km/h 0— 6.2 mph	3 0—18 km/h 0—11,2 mph	4 0—30 km/h 0—18.6 mph

**Hydraulics**  
 (Standard)  
 Pump capacity: 140 l/min (31 gall./min)  
 Max. working pressure 12 MPa  
 120 kp/cm<sup>2</sup> (1700 lbf/in.<sup>2</sup>)

(Extra)  
 Pump capacity: 220 l/min (48 gall./min)  
 Max. working pressure: 17,5 MPa  
 175 kp/cm<sup>2</sup> (2500 lbf/in.<sup>2</sup>)

**Service capacities:**

	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 (5 galls)
Hydraulic oil	135 l (30 galls)
Compressed air tanks, front:	26 l (5,7 galls)
tanks, rear:	40 l (8,8 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  
 Toolkit/tyre pumping hose  
 Enamelled spark-arrester muffler  
 Front towing eyes

## Extra equipment

Extra fuel filter  
 Engine heater, gas or electric  
 Rotating flashing beacon  
 Towing hitch  
 Front wheels 18.00×25 XRB or HRL  
 Rear wheels 14.00×24 XRB or HRL  
 20.5 ×25 XRB

Spill guard for rear window  
 Hydraulic PTO  
 Stand and controls for hydraulic crane  
 Bunks and stakes for log transport  
 Underbody protection  
 Cab ventilator  
 Fire extinguisher  
 Safety belt  
 Radio  
 Long chassis version

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

# VOLVO BM

VOLVO BM AB ESKILSTUNA SWEDEN

Ref.No. 21 1 669 1155  
 ENGELSKA