VOLVO BM

860 UNDERGROUND VERSION



Power

Low-emission Volvo TD 60 engine, 136 hp DIN/flywheel (162 hp SAE) at 2400 rev/min. Meets most European emission requirements. Exhaust gas treatment system cools and washes the exhaust gases.

Gradeability

The Volvo BM 860 can work efficiently on gradients up to 17 % (1:6). The maximum gradient it can handle is 30 % (1:3.5).

Space requirements

Because it is articulated, the machine is easy to manoeuvre in extremely tight spaces. It can turn within a space less than 11 metres (36 ft) wide! Four reverse gears permit haulage in the reverse direction, even over long

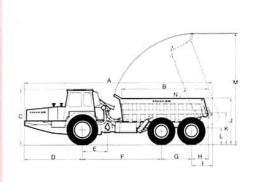
Comfort and safety

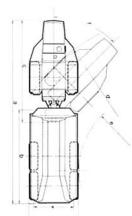
The 860 is equipped with Volvo BM's renowned safety cab. Unusually good visibility and lighting. This contributes to a good working environment for the operator and thereby high capacity.

Economy

The Volvo BM 860 is a converted surface machine, thanks to which we have been able to keep its price remarkably low compared to more specialized underground machines. The large tyres have long lives for low overall tyre

The functional design and features of the machine make it a realistic and economical alternative to permanent underground transport or conveyor systems.





D	ime	ensio	ns											
		mm	ft	in.			mm	ft	in.			mm	ft	in.
A	=	9492	31	2	L	=	800	2	7	а	=	9362	30	9
A B	=	4480	14	8	M	=	5850	19	2	b	=	5000	16	5
C	=	2850	9	4	N	=	70°			C	=	4900	16	1
D	=	2923	9	8						d	=	7500	24	7
E	=	1280	4	8 2						e	=	4100	13	5
COME	=	4050	13	3						1	=		45°	
G	=	1540	5	1						٧	=	2100	6	10
H	=	850	2	9						W	=	2480	8	1
į.	=	980	3	2	Specifications based									
J	=	2300	7	6	on dumper with 11 m ³					Front tyres			18.00×25	
K	=	1550	5	1	(14.4 yd³) body.					Rear tyres			20.5×25	

Туре Charge-air-cooled

6-cyl, in-line, direct injection,

4-stroke cycle. Turbocharge

Output Volvo TD 60

100 kW DIN/flywheel at 40.0 rev/s 136 Hp DIN/flywheel at 2400 rev/min

119 kW SAE at 40.0 rev/s

162.0 Hp SAE at 2400 rev/min

465 Nm DIN/flywheel at 30.0 rev/s Torque

47.4 kpm DIN/flywheel at 1800 rev/min

524 Nm SAE at 30.0 rev/s 53.4 kpm SAE at 1800 rev/min

Bore × stroke 98.43×120 mm (37/s×43/4 in) 5.48 litres (334 in3) Displacement

Specific fuel

170 g/hph DIN at 1800 rev/min consumption

Exhaust gas cooling

by addition of water max, exhaust

gas temp. 80°C (176°F)

Electrical system

Voltage Alternator 750 W Starter 3 kW (4 hp) Battery capacity 152 Ah

Power transmission

Torque Single stage whith freewheeling converter stator and automatic lock-up

clutch (DIRECT-DRIVE)

Stall ratio

Gear box Full power shift with 4 for-

ward, 4 revers gears

Axles Front; integral reduction and differential lock

Rear; hub reduction and dif-

ferential 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

Front wheels

18.00-25/16 HRL

Rear wheels 20.5-25 HRL

Full hydraulic articulated steering with mechanical follow up.

Steering angle

(each direction) 450

Nos of, steering wheel turns from lock 3.5

to lock Pump capacity

140 I/min (31 gall./min)

Max. working pressure

120 kp/cm2 (1700 lbf/in2)

Steering cylinders

Bore × stroke 100×500 mm Operating specifications

Weight distribution Unloaded machine

weight kg/lb

Body volume

Overall

With extension

Front axle 7.300/16.100

Tandem axle 6.100/13.600

Total weight 13,400/29,800

8.3 m³

11 m³

width

heaped

2.480 mm

height length

2.850 mm 9.490 mm

Ground clearance Front Rear

440 mm 410 mm

1 ft 5 in 1 ft 4 in

Outer turning radius

7.500 mm 24 ft 7 in

Speed ranges

0—6 km/h 0—3.7 mph

0-10 km/h 0-6.2 mph

-18

km/h 0—18 km/h 0—11.2 mph

km/h -18.6 mph

Dump time Dump angle

18 seconds

Tipping controls

Single lever with 3 positions LOWER - HOLD - DUMP Automatic kick-out at pre-determined dump

angle 70°

Pump capacity 140 I/min (31 gall./min)

Max. working

pressure 6 stage tipping

cylinders

Largest bore

140 mm (51/2 in)

120 kp/cm2 (1700 lbf/in2)

Service capacities: imp. galls 1

(61/2 galls) 30 1 Coolant Engine oil 17 I (33/4 galls) Fuel tank 225 1 (50 galls)

(43/4 galls) Transmission oil 22 1 135 I (293/4 galls)

Hydraulic oil Compressed air

tanks, front: 26 1 (53/4 galls) tanks, rear: 40 1 (83/4 galls)

Water tanks 300 [(67 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

Parking/Working lights. Headlight dimmer Reversing light
Direction indicators and hazard warning

Interior cab light Interior cab light
Air cleaner indicator
Tool kit/tyre pumping hose
Front towing eyes
Spill guard for rear window
Exhaust gas treatment system for cooling and
washing of exhaust gases
Rock version body

Extra equipment

Extra fuel filter

Engine heater, gas or electric Rotating flashing beacon Wear plates for standard body Rear extension to body Wear plates to the rear extension Towing hitch Front wheels 18.00×25 XRB Fear wheels 20.5 ×25 XRB Fire extinguisher Safety belt Radio

Side-mounted cab ventilator Speedometer

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



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