

BH90 - REAR DUMP TRUCK

Performance : High power diesel engine and well matched with mechanical drive transmission offers ample reserve power, high hp to weight ratio.

Productivity : Low fuel consumption, longer engine life, wide target area, large volumetric capacity and low loading height assures high productivity.

Reliability : Oil cooled multiple disc rear brakes are free from fading even during repeated and continuous operations. Due to ample capacity the rear brakes also act as retarder brakes.

Serviceability : Low maintainability and repairability indices make easy servicing and increases availability.

Manoeuvrability : Power steering with nique A-frame design coupled with wide angle offers extra small turning radius of 9.9m and makes the machine highly manoeuvrable even in confined area.

Comfort : Ideally located spacious cabin with easy-to-reach controls for maximum comfort and operational ease.

Safety : Features include ROPS cabin, auto emergency steering, dual brake systems meet relevant safety standards, parking brake inter lock.

Max. Payload : 85000 kg









Capacity(heaped SAE / ISO 2:1 : 58 m³

Flywheel power (net) : 689 kW(923hp) @ 2100 r/min

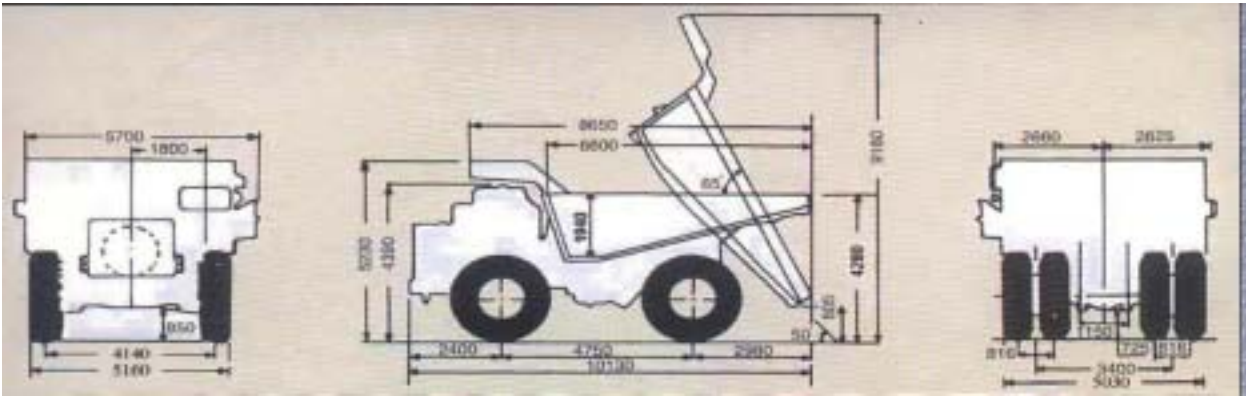


BH 90 DUMP TRUCK SPECIFICATIONS



	Hydraulic System		BODY (EXHAUST HEATED)	
The steering / hoisting and retarder cooling circuits are independently designed for sure control		The body is made of high-tensile strength steel and rib reinforcement for maximum body strength. V-shape body with rounded corners and flat bottom and exhaust gas body heating for smooth dumping.		
Hdraulic pump		Plate thickness		
Type	Tandem gear pump -2 nos. for steering, hoist and cooling	Bottom	20 mm	
Capacity	522 ltrs at engine rated 2100 r/min	Side	10 mm	
Control valve	Spool type for hoisting	Front	12mm	
Relief valve setting	20.6 MPa (210 kg/cm ²)	Target area(length x width x depth)	6600mm x 4750mm x 1940 mm	
Hoist cylinders	Two, 3-stage double acting telescopic	Volumetric Capacity		
Body raise time	13.5 + 1.5 sec	Struck	43 m ³	
 SYSTEM REFILL CAPACITIES		Heaped Capacity (SAE/ISO) 2:1	58 m ³	
	SYSTEM REFILL CAPACITIES	 MASSES		
System	Capacity (ltrs)	Net vehicle mass	56,000 kg	
Cooling systems	270	Rated payload	85,000 kg	
Fuel tank	1240	Gross vehicle mass	1,41,000 kg	
Engine lube oil	130	Mass distribution	Empty (kg)	Loaded (kg)
Transmission & torque converter	110	Front axle	26,880	45,120
Final drive left & right	180	Rear axle	29,120	95,880
Hydraulic tank	490	 TYRES		
Air tank	175	Tyres (tubeless)	27.00 x 49R	
Suspensions		Rim size	19.50 x 49	
Front	24(each)	BEML recommends the user to evaluate all job conditions and consult the tyre manufacture to make proper tyre selection.		
Rear	16(each)	 BRAKING SYSTEM		
 SUSPENSION		Service brake:		
Type		Front :	Air-over- hydraulic, dry caliper disc.	
Front	Wheel mounted, hydro-pneumatic integral rebound control	Rear :	Air-over- hydraulic, oil cooled wet multiple disc	
Rear	Axle mounted, inverted hydro-pneumatic integral rebound control	Emergency brake (secondary brake)	Air-over-hydraulic, automatic application through relay emergency valves. Front brake will activate as a part of secondary brake even if it is cut off from the service system.	
Cylinder	Front	Rear	Parking brake :	
Quantity	2	2	Spring loaded caliper disc drive shaft.	
Bore x stroke (mm)	250 x 376	250 x 190	Retarder brake	
Charging pressure(kg/cm ²)	34.67	21.70	Rear brake serves as retarder brake	
Load/Deflection rate		Performance		
Empty (kg/cm ²)	952	712	Meet ISO 3450 requirements.	
Loaded(kg/cm ²)	3110	15373		

DIMENSION



GENERAL : Rear view mirror(left and right), Headlights, Tail lamps, Back up light, Roof lamp, Windshield, washer and windshield wiper, Tilttable steering wheel, Chain type Rock ejector, Cabin floor mat, Emergency brake, Auto Emergency steering, Sun visor, Body stopper, Co-operator seat, Tool kit, Under view mirror, Engine overrun protection, Vandalism protection caps(radiator,fuel tank,hydraulic tank), Front & rear LED turn signal lamps(left & right) , Portable fire extinguisher, Canopy catwalk, Integral ROPS cab, Front brake cut off switch, Automatic lubrication system with warning device, Fog lamp, Parking brake interlock, air dryer, Transmission filtration improvement.

GAUGES : Speedometer, Tachometer, Ammeter, Engine oil pressure, Retarder oil temperature, Engine coolant temperature, Torque convertor oil temperature, Air pressure, Service meter (hourmeter), Fuel gauge marked 1/4, 1/2, 3/4 on fuel tank

LED CLUSTER :

(a) Pilot indicator : Left turn, Right turn, High beam, Retarder brake, Float,
 (b) Warning indicator (Audio visual) : Engine oil pressure, Engine coolant temperature, Air pressure, Parking brake, Convertor oil temperature, Body up, Radiator water level, Hydraulic oil low level, Hydraulic oil filter clogged, Brake oil temperature, Transmission oil pressure.

GAURD : Cab guard Cab step and safety guard cat walk Engine and transmission belly guards Oil splash guard Propeller shaft guard

OPTIONAL EQUIPMENT : Automatic fire suppression system, Tyre inflation kit, Air conditioner / heater, Multi functional data recorder, payload monitoring system, unified electronic controls, fuel level indicator on dash board, Wiggins fast fuel filling, Body wear bars, Hydraulic oil high pressure filters.

Coal Body : Exhaust heated

Capacity : Struck : 59 m³
Heaped : 71 m³

Note :

- 1) Materials & specifications are subject to change without notice.
- 2) Illustrations may include optional equipment and accessories and may not include all standard accessories.
- 3) All the specifications meets relevant ISO standard.