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BH60 DUMP TRUCK

SALIENT FEATURES

- Performance: High power BEML BSA6D170A-1 engine, Ruged CL(B)T 6063 transmission with automatic lock-up clutch and heavy-duty planetary axle provide optimum combination of speed and tractive effort.
- Productivity: High power to weight ratio gives ample reserve power for faster cycle time.
- Reliability: Adjustment-free wet multiple disc brakes for rear and dry caliper disc brakes for front axle offer longer life.
- Serviceability: low maintainability and repairability index, evaluated through SAE J 817A, compared to any other dumper in its class.
- Manoeuvrability: Orbitrol Power steering with a good combination of steering angle, turning circle, tread and wheel base provide high degree of manoeuvrability.
- Control: Ideally located spacious cabin with ergonomically designed operator seat and control offer maximum comfort and opeartional ease.
- Safety: Features include Integral ROPS cabin, emergency steering, dual brake system to meet relevant safety standards.

Max. payload : 55,340 kg

Capacity(heaped) SAE / ISO 2:1:36.5 m³

Flywheel power (net): 504 kW(675 hp) @ 2100 r/min



BH60 REAR DUMP TRUCK SPECIFICATIONS



Engine			Steering System			
Make		BEML				
Model		BSA6D170A-1	Туре	Oı	Orbit, fulltimepower steering	
Туре		Diesel, 4-stroke, twin	Cylinder			
		turbocharged and after cooled, direct injection,	Туре	De	ouble acting, piston type	
		water cooled.	Quantity	Tv	VO	
Flywheel power		504 kW (675 hp) @2100 rpm	Bore X stro	oke 10	100 X 353 mm	
Maxmium torque		2750 N-m (280 kgm) @ 1400 rpm	Relief press		13.7 MPa (140 kg/cm2)	
No. of Cylinders		6 inline	Emergency steering		Electrically driven hydraulic pump & motor	
Bore & Str	oke (mm)	170 x 170				
Displaceme	nt	23.15 ltrs (23150 cm3).	Meets the SAE J53 & 501 requirements		x 3010 periormance	
Electricals			Performanc	Performance		
Alternator		24 V DC, 50A	Turning Rac	dius 39	Degree	
Starting mot	tor	2 X 24 DC 7.5kW	Turning circ		2.6 m	
Battery	Battery 2 x 12V, 200Ah		diameter			
Transmission			Hydraulic system			
Model	Allison C	Allison CL(B)T 6063		Hydraulic pump		
Туре		ift with automatic lock up ith ATEC)	Type Triple gear pump fo hoist, steering, brake			
Drive Axle Full floating		ing]		cooling	
Differential			Flow to ho		491 ltr/min @ 2185 rpm	
Туре	Traction	sensing, Automatic	steering system			
Ratio	3.85:1		Flow to brake 7		709 ltr/min @2185 rpm	
	FINA	L DRIVE	I 	Relief pressure		
Туре	Planeta	ary reduction	Hoist		17.2 MPa (175 kg/cm2)	
Ratio 5.33:1			Brake oil cooler		, ,	
Total reduction 20.52:1				1.0 MPa (kg/cm2)		
Travel speed (km/h)			11 -		Two. 3 stage double acting, telescopic type	
Range 1st 2r		nd 3rd 4th 5th 6th 7th	Body hoist time		12 + 2 sec	
Forward 10 14		1 19 26 35 48 65		(CABIN	
Reverse 7.0 2.0				Type Integral ROPS cabin provided with safety glass & electronic display dashboard (meet ROPS performance criteria		
FRAME			Туре			
Type		n construction made of strength steel.			AE j 1040 & ISO 3471	



BH60 REAR DUMP TRUCK SPECIFICATIONS

*	BRAKING SYSTEM	
Front:	All over-hydraulically, dry caliper disc.	
Rear	All over-hydraulically, wet caliper disc.	
Emergency brakes	All over-hydraulically, automatic application through relay emergency valves	
Parking brake	Air-operated, disc type parking brake	
Retarder brake	Rear brake serves as retarder brake	
Meets the SAE J 1473 and ISO 3450 performance		

SYSTEM REFILL CAPACITIES				
System	Capacity (ltrs)			
Cooling systems	201			
Fuel tank	780			
Engine lube oil	60			
Transmission& torque converter	61			
Final drive (each side)	35			
Differential	100			
Hydraulic tank	310			
Air tank	175			

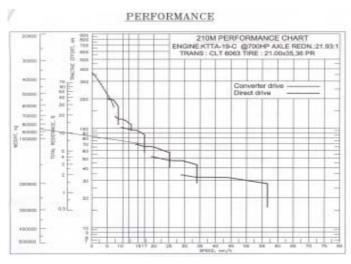
d	SUSPENSION		
Туре			
Front	Wheel mounted, hydropneumatic, integral rebound control.		
Rear	Axle mounted, inverted, hydrropneumatic, integral reboun control.		
Cylinders	Front	Rear	
Quantity	2 Nos	2 Nos.	
Bore X stroke	250 X 376	250 X 190mm	
Charging Pressure	2.0 MPa (20.6 kg/cm2)	1.5 MPa (15.35 kg/cm2)	

Pressure	(20.6 kg/cm2)	(15.	.35 kg/cm2)	Volumetric C	apacity	
MASSES			Struck		26.5m3	
Net vehicle mass	s 42,500 kg	42,500 kg		Heaped - SAE/ISO(2:1)		36.6m3
Rated payload	55,340 kg	55,340 kg		SAL/13O(2.1		
Gross vehicle ma	ass 97840 kg	97840 kg		TYRES AND RIMS		
Mass distribution	n Empty (kg)	Loaded (kg)	Size	1	5, 42 PR(E-4), tubeless- Standard 5, Raqdial - Optional
Front axle	19975(47	7%)	32287(33%)	Rim	17.00-35.	
Rear axle	22525(53	3%)	65553(67%)	BEML recommends the user to evaluate all job conditions an consult the tyre manufacture to make proper tyre selection.		

BODY			
Plate thickness			
Bottom plate	20mm		
side plate	10mm		
Front plate	12mm		
Target area (length x Width)	6230 X 3850 mm		
Depth	1643mm		
Volumetric Capacity			
Struck	26.5m3		
Heaped - SAE/ISO(2:1)	36.6m3		

BH60 REAR DUMP TRUCK SPECIFICATIONS





How to use this chart:

- 1. Enter chart at weight (gross vehicle weight)
- 2. Determine total resistance (grade plus rolling resistance)
- 3. Connect point on weight scale with point on total resistance scale and project it to tractive effeort scale. Read required tractive effort.
- 4. Read horizontally from required tractive effort to intersect to appropriate curve. Project down to speed scale
- 5.Read vehicle speed for given weight and total resistance.

STANDARD ACCESSORIES

GENERAL:-Integral ROPS cabin, electronic dashboard systems, vandalism protection cap (Fuel tank), head and tail lights, horn, turn singnal lights, alternator, eletric starter, key switch, wiper motor, engine shut - off switch, manual emergency steering, wind-shield washer, right & left hand mirror, portablle fire extinguisher, tool kit, parking brake valve, tilt steering wheet and column, central warning lamp & burger, battery cut-off switch, dump brake, backup alarm, catwalk, mudflaps,body lock ropeand ejectors, cabin floor mat, safety seat belt, co-operator seat, front brake cut off switch and emergency brake, centralised lubrication system, exhaust heated body, twin fresh air fan.

Gauses:- Ammeter, voltmetter, air pressurre, engine oil pressure, wter temprature, transmission oil temprature & pressure, brake oil temprature, air cleaner restriction, speedometer, tachometer, electrical hour meter & fuel level.

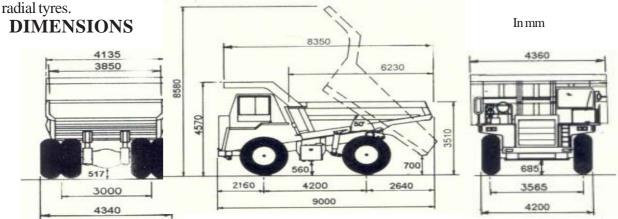
Guards:- Engine belly guard, cab spill guard, drive line protector, rock guard, radiator fan guard and hand (meets ISO 3457 requirements)

Indicators:- Hi-beam, reverse, turn signal, body-up, lube oil pressure, watre temperature, parking brakeand emergency steering "ON", alternator warning, transmission il temperature & pressure, fuel level, air pressure & hydraulic oil temperature

Alarms:- Air prassure, water temprature, transmission oil temperature, lube oil pressure, hydraulic oil temperature, transmission filter clogging, body - up and parking brake "ON"

Optional Accessories:-

Tyre Inflation kit, tachograph, suspension charging kit, auto emergency steering, air conditioner and heater unit, exhaust mufler, fast fill system for fuel, cold starting kit (APS), fog lights & radial tyres



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