

BH35-2

REAR DUMP TRUCK

- Top Performance
- Enhanced Productivity
- Increased Reliability
- Excellent Serviceability
- Exceptional Manoeuvrability
- Superior Operating Comfort
- Improved Safety



Max. Payload	: 31,752 kg
Capacity (heaped) SAE / ISO 2:1	: 22.5 m ³
Flywheel power (net)	: 280 kW (375 hp) @ 2100 rpm

BH35-2 REAR DUMP TRUCK

Salient Features :

The Robust Truck

Top Performance :

High power engine, rugged AVTEC CLT 754 transmission with automatic lock - up clutch and heavy duty planetary axle provide optimum combination of speed and tractive effort.

Enhanced Productivity :

High power to weight ratio gives ample reserve power for faster cycle time. Wide target area, large volumetric body & low loading height ensures high productivity.

Increased Reliability :

Adjustment-free wet multiple disc brakes for rear axle and dry caliper disc brakes for front axle offer longer life.

Excellent Serviceability :

Low maintainability and repairability index, evaluated through SAEJ817A, compared to any other dumper in its class.

Exceptional Manoeuvrability :

Orbitrol full time Power steering with a good combination of steering angle, shorter turning radius, wheel tread and wheel base provide high degree of manoeuvrability.

Superior Operating Comfort :

Human-engineered cabin with ergonomically designed operator's compartment & controls offer maximum comfort and operational ease.

Improved Safety :

Features include Integral ROPS cabin, emergency steering, dual braking system to meet relevant safety standards.



ENGINE

Make	Cummins (India)
Type	NTA-855-C BIG CAM III IC-Diesel, 4-stroke, turbo charged, after cooled, direct injection, water cooled
Number of cylinders	6, inline
Bore & Stroke (mm)	∅ 140 x 152 mm
Displacement	14.0 l
Fly wheel power	280 kW (375 hp) @ 2100 rpm
Maximum net torque	1627 N-m (166 kg-m) @ 1400 rpm
	Meets ISO 9249
Electricals	
Starting motor	24V DC, 7.5 kW
Battery	2 x 12V, 200Ah

POWER TRAIN

Transmission					
Model	AVTEC CLT 754				
Type	Power shift with automatic Lock up clutch				
Drive axle	Full floating				
Differential					
Type	Traction sensing, automatic				
Ratio	3.23 : 1				
Final Drive					
Type	Planetary reduction type				
Ratio	4.58 : 1				
Total reduction	14.787 : 1				
Travel speeds (km/h)					
Range	1st	2nd	3rd	4th	5th
Forward	7.74	12.57	19.85	29.06	40.11
Reverse	3.94				

HYDRAULIC SYSTEM

Hydraulic pump	
Type	One no. tandem gear pump for hoist, steering and brake oil cooling
Capacity	213 l/min @ 2100 rpm (Hoist & Steering) 70 l/min @ 2100 rpm (Brake oil cooler)
Relief pressure	
Hoist	17.2 MPa (175 kg/cm ²)
Brake oil cooler	0.54 MPa (5.5 kg/cm ²)
Hoist cylinders	Twin, 3-stage, double acting, telescopic type
Body hoist time	16 ± 1.5 sec.

STANDARD EQUIPMENT

GENERAL : ROPS cabin, Electric Diagnostic system, Vandalism Protection Cap (Fuel tank), Head and tail lights, Air horn, Turn signal lights, Alternator, Electric starter, Key-switch, Wiper motor, Manual emergency steering, Windshield washer, Dump brake, Right & Left Hand mirror, Portable fire extinguisher, Tool kit, Parking brake valve, Tilttable steering wheel and column, Exhaust heated body, Central warning lamp & buzzer, Battery relay, Backup Alarm with flasher, Catwalk, Mudflaps, Body lock pins, Rock ejectors, Cabin floor mat, Safety seat belt, Co-operator seat, Air dryer, Front brake cut-off switch, Emergency brake, Engine shut-off switch, Twin fresh air fans, Fog lights, Dia gauge on fuel tank, Auto retarder, Blind spot mirror & steering locking, Reflective stickers on all sides.

GUAGES : Ammeter, Voltmeter, Air pressure, Engine oil pressure, Water temperature, Transmission oil temperature & pressure, Brake oil temperature, Air cleaner restriction, Speedometer, Tacho-meter, Electrical hour meter, Fuel level.

INDICATORS : Hi-beam, Reverse, Turn signal, Body-up, Lube oil pressure, Water temperature, Parking brake and emergency steering "ON", Alternator warning, Transmission Oil temperature and pressure, Fuel level, Transmission filter clogging, Air pressure and hydraulic oil temperature.

ALARMS : Air pressure, Water temperature, Transmission oil temperature & pressure, Lube oil pressure, Hydraulic oil temperature, Transmission filter clogging, Body-up and parking brake "ON", Low fuel level.

OPTIONAL ACCESSORIES

Tyre inflation kit, Suspension charging kit, Auto emergency steering, Air conditioner and Heater unit, exhaust muffler (Non exhaust heated body), Fast fill system for fuel, Automatic centralised lubrication system, Parking brake interlock, Radial tyres, Auto fire suppression system, Body wear bars, Coal body.

SUSPENSION

Type-front	Frame mounted, hydropneumatic integral rebound control	
Rear	Axle mounted, inverted hydropneumatic, Integral rebound control	
Cylinder	Front	Rear
Quantity	2 nos	2 nos
Bore x Stroke	∅ 216 x 365 mm	∅ 216 x 170 mm
Charging pressure	2.8 MPa (28.12 kg/cm ²)	1.9 MPa (19.5 kg/cm ²)
Load/deflection Rate		
Empty	482 kg/cm	408 kg/cm
Loaded	1132 kg/cm	5504 kg/cm

STEERING SYSTEM

Type	Orbitrol, full time power steering
Cylinder	
Type	Double acting, piston type
Quantity	Two
Bore x Stroke	∅ 110 x 435 mm
Relief pressure	12.4 MPa (126 kg/cm ²)
Emergency Steering Performance	Electrically driven hydraulic Pump and motor
Turning radius	8.75 m
Vehicle clearance Dia	18.18 m

BRAKES

Service Brakes	
Front	Air-over-hydraulic, dry caliper disc
Rear	Air-over-hydraulic, wet multiple disc
Emergency	Air-over-hydraulic, automatic application through relay emergency valves
Parking brake	Spring actuated, air released, dry caliper disc on axle input flange
Retarder brakes	Rear brake serves as retarder brake
Meets ISO 3450 performance requirements	

TYRES

Size	18.00 x 25, 32PR (E-4) tubeless - standard
(Front & Rear)	18.00 x 25, 36 PR (E-4) tubeless - optional
	18.00 x 25, 40 PR (E-4) tubeless - optional
Rim size	13.00 x 25
BEML recommends the user to evaluate all job conditions and consult the tyre, manufacturer to make proper tyre selection.	

SYSTEM REFILL CAPACITIES

Systems	Capacity (ℓ)
Cooling system	120
Fuel tank	540
Engine lub. oil	26
Transmission	36
Differential	40
Final drive (each side)	20
Hydraulic tank	225
Air tanks	150
Suspension	- Front 17
	- Rear 8.8

BODY

Plate thickness	
Bottom	16mm
Side	8 mm
Front	12 mm
Target area (Length x width) (Length x width)	5015 mm x 3475 mm
Depth	1350 mm
Volumetric capacity	
Struck	16.0 m ³
Heaped - SAE/ISO (2:1)	22.5 m ³

CABIN

Type	Sound suppressed, Integral ROPS cabin with electronic Diagnostic system
Meets ROPS performance criteria as per ISO 3471	

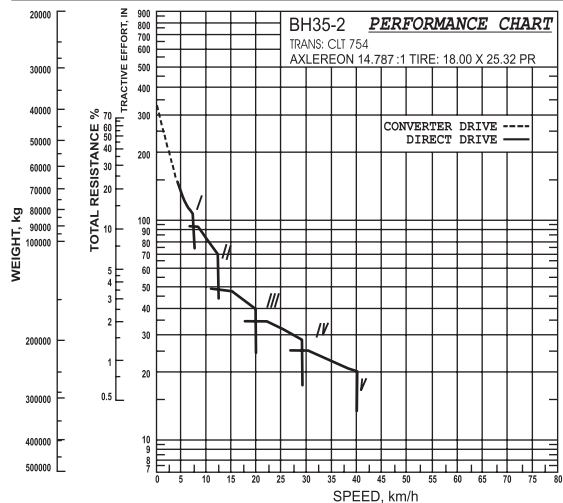
FRAME

Type	Box section construction made of high tensile strength steel
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MASS

Net vehicle mass	27,808 kg
Rated payload	31,752 kg
Gross vehicle mass	59,560 kg
Mass distribution	Empty Loaded
Front axle, kg	13,070 (47%) 19,655 (33%)
Rear axle, kg	14,738 (53%) 39,905 (67%)

PERFORMANCE CHART

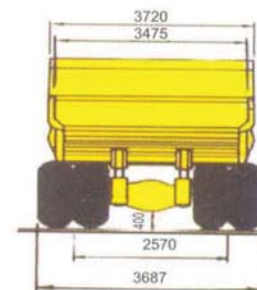
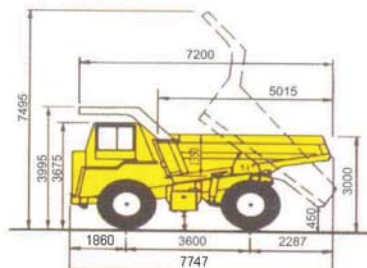
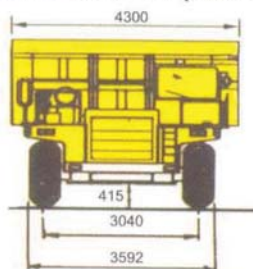


How to use this chart : Draw a straight line from gross vehicle mass to percent of total resistance (total resistance = grade resistance + rolling resistance) and extend the same line upto tractive effort. From this point draw horizontally to the curve with the highest obtainable gear, then vertically down to obtain maximum speed.

GUARDS

Engine & Transmission belly guard, cab spill guard, drive line protector, radiator fan guard and hand rails (Meets ISO 3457 requirements)

Dimensions (Rear Dump Truck)



Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories

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