



- High Power Performance
- Enhanced Productivity
- Increased Reliability
- Excellent Serviceability
- Exceptional Maneuverability
- Superior Operating Comfort
- Improved Safety



Maximum Pay Load : 136 MT

Capacity (Heaped) SAE/ISO 2:1 : 82 m³

BH150E

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BH150E

REAR DUMP

Salient Features:

Power Performance: High power Electronically controlled, Fuel efficient, CUMMINS Diesel engine with AC Drive system from GE ensures smooth ride, with continuously variable torque-speed curve delivering maximum power over the operating speed range and also caters to consistent performance on steep gradients.

High Productivity: High power to weight ratio ensures excellent productivity and also ensures increased engine life. Wide body design., higher volumetric capacity and a low loading height ensures high productivity.

Reliability: Diesel-electric power module (AC drive system) with few wearing parts guarantees highly reliable performance, more durability and high availability.

Serviceability: Ease of maintenance and repair ensured for excellent service abiliity.

Maneuverability: Power steering, Optimum turning circle radius, provides for high degree of maneuverability.

Comfort: Ideally located spacious deluxe cabin with ergonomically designed Operator & co-operator seat with tiltable telescopic steering column and control panels along with dashboard mounted Air Conditioning system provide Operator with maximum comfort and operating ease.

Safety: Truck has built-in safety features like ROPS Cabin, Emergency power steering, Electrical dynamic retarding and all hydraulic brake system meeting the relevant safety standards. Fire retardant hydraulic hoses meeting MSHAS standard are used to ensure high degree of safety. Rear view camera & blind spot mirrors are provided to ensure excellent all round visibility.





Make	CUMMINS		
Model	QSK50C - EPA Tier II Compliant		
Туре	IC-diesel, 4 stroke, Turbocharged, Cooled Chargeair Direct injection, Electronic engine.		
Number of cylinders	16, V-Configuration		
Bore x stroke	Ø159 x 159 mm		
Displacement	50.3 l		
ENGINE power	1398 kW(1875 hp) @1900RPM		
Maximum net torque	7871 Nm @ 1500 RPM		
Electricals	Meets SAE J1349		
Starting motor	24 V DC, 11kW (2 Nos)		
Battery	4x12V, 100 Ah (Sealed maintenance free batteries)		
Alternator	24 V DC, 260A		

DRIVE SYSTEM

AC Drive Alternator	5GTA22
Control	INVERTEX AC Drive Systems
Wheel Motors	5GEB23, AC Wheel motor
Gear Reduction Ratio	28.8:1
Travel speeds (km/h)	64 kmph Maximum



Type

Special alloy steel with integral front bumper, rear tubular cross member, continuous frame rail beam with variable section and rugged continuous horse collar.



Type

Integral ROPS Cabin, Sound supressed with electronic display dashboard

(Meets ROPS performance criteria as per ISO 3471)

STANDARD EQUIPMENT

Alternator (24V / 260Amp)* Auto lubrication system * Auto fire suppression system * Body down indicator * Back up Alarm (Audio Visual) * Electric Start * GE IGBT Control cabinet * Hoist control * Injector Bank Monitoring system * Payload Monitoring system * Continuous rated Retard grids * Retard speed control * Rear view Camera * Operator fatigue * Front camera * Auto dimmer * Anti-colision * 3-point seat belt * Fast fuel filling.

SAFETY

Battery Relay * Interlocks in drive system * Battery cut-off switch * Blind Spot Mirrors * Circuit breakers (miniature type resettable) * Dynamic Retarding with continuous rated grids * Engine shutdown at ground level * Hoist overload Interlock * Electric horns * Power steering Accumulator assisted Emergency steering * Seat belts * Proximity warning device

STANDARD CAB

Air cleaner Vacuum indicators * Air conditioner * Combinational switch * DID panel for GE control * Dump override switch * Electric operated Operator seat * Engine shut down switch * Engine Diagnostic connector * FM/AM CD Player with speaker * Fan * Hoist control switch * LED Roof lamp * Power window * Payload Monitoring Display unit * Retard Speed control switch * Retard Speed Potentiometer * RS 232 port (3 No.) * Shift selector * Starter Key switch * Wind shield washer * Wind shield Wiper motor.

OPERATOR CONSOLE

Electronic Display: * Battery voltage * Engine Oil pressure * Engine Oil temperature *Engine coolant temperature * Engine speed * Intake manifold temperature * Fuel level * Hour meter * Odometer * Speedometer * Tachometer * Brake oil temperature * Voltmeter * High beam indicator * Left & Right indicator * Seat belt indicator * Park brake indicator.

LIGHTING

Head lights: Halogen/LED * Backup up lights: Halogen * Turn signal, Brake and tail lamps: LED type *Driving Light: Halogen * Fog light: Halogen * Ladder lights: halogen * Manual Back-up lights: Halogen * Service light in Rear Axle and engine compartment: Halogen * Cabin roof lamp: LED type * Deck lamps on LH and RH side for Load indication: LED type.

OPTIONAL ATTACHMENTS

Body liners, Heater unit, Tyre pressure monitoring system.



Rubber Pad mounted.			
Exhaust heated type; Rugged bolster and sill construction			
BOTTOM PLATE	OTTOM PLATE 20mm thick plate of Tensile		
	strength 1000 MPa		
FRONT PLATE	12mm thick plate of Tensile		
	strength 690 MPa		
SIDEPLATE	10mm thick plate of Tensile		
	strength 690 MPa		
Valumetrie canacity (m3)			

Volumetric capacity (m³)

SIANL	AKU	
Struck		

Struck	56
Heaped - SAE/ISO (2:1)	82
Loading Height/Dump height	5400 mm/ 11800mm



Service brakes	All hydraulic actuated	
Front	3-calipers on 39" OD disc. Single disc per wheel	
Rear	20" OD dual disc. 2 caliper/disc	
Emergency	Automatically applied when accumulator	
	pressure drops below specified value.	
Parking brake	Spring applied Hydraulic released	
Retarder brake	etarder brake Electro Dynamic Retarding with Grid Cooling	
Meets SAE / ISO 3450 performance requirements.		

MASSES

Net vehicle mass	104,000 kgs	
Rated payload	136,000 kgs	
Gross vehicle mass	240,000 kgs	
Mass distribution	Empty	Loaded
Front axle, kgs	48,900 (47%)	79,200(33%)
Rear axle, kgs	55,100 (53%)	1,60,800 (67%)



HYDRAULIC SYSTEM

Hydraulic pump	
Type	Tandem Pump - VANE type
Relief pressure	
Steering	220 bar (3200 psi)
Brake	220 bar (3200 psi)
Hoist cylinders	Twin, 3 stage double acting, Telescopic type
Hoist Timing	
Power up loaded	22 +/- 2 sec
Power down	13 +/- 2 sec

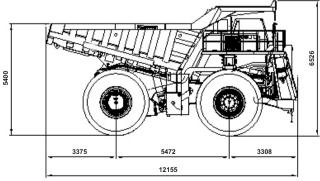


SUSPENSION

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Туре					
- Front	Frame	mounted,	Hydro-Pneun	natic,	integral
	rebound	l control.			
-Rear	Axle m	nounted,	Hydro-Pneum	atic,	integral
	rebound	l control.	-		
Cylinders	Front		Rear		
Quantity	2		2		
Bore x stroke (mm)	336 x 38	2	336 x 410		
Charging Height	290		295		
(mm)					







Туре	Twin cylinder with Accumulator assisted Emergency steering.	
Cylinder		
Туре	Double acting, piston type	
Quantity	Two	
Bore x Stroke	127 x 650 mm	
Relief pressure	210 Bar	
Performance		
Turning radius	13.35 mts	



TYRES

Size (Front & Rear)	33.00 R51 Radial tyre
Rimsize	24" x 51"

BEML recommends the user to evaluate all job conditions and consult the tyre manufacturer to make proper tyre selection.



SYSTEM REFILL CAPACITIES

System	Capacity (Litres)
Cooling System	516
Fuel tank	3000
Crank case (including lube	
oil filters)	204
Hydraulic system	600
Motor Gear Box	40

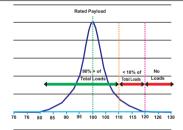


PAYLOAD POLICY

Loading policy is established considering the material density, fill factors and loading equipment. The loading policy is intended to identify the guidelines for the loading of BEML Trucks and is valid for approved applications and Haul profiles

only.

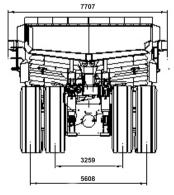
The following graph illustrates an acceptable distribution of payloads on a monthly basis. The mean payload does not exceed the Rated Payload, no more than 10% of all loads exceeds 110% of the Rated Payload, and no load exceeds 120% of the Rated Payload.



Normal Distribution for Off-Highway Truck Payload

- The mean of all payloads for any calendar month shall not exceed the Rated Payload as defined above.
- Overloads between 10-20% of the Rated Payload are allowable on an infrequent basis but shall not exceed 10% of all loads in a given month. No single overload of 20% or greater of the Rated Payload is allowed.

- No single overload of 20% or greater of the Rated Payload is allowed.
 Implications of Overloading
 Overloads have a direct impact on overall cost of operations and life of components that have been specially designed based on a rated GVW.
 Operating outside the stated loading policy during any type of warranty period shall void Drive system and all component warranties
 Operation outside the stated loading policy during any type of guarantee period, including but not limited to service contracts and availability guarantees, can also void any such agreements or cause an adjustment thereof.





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बी ई एम एल लिमिटेड BEML LIMITED

Schedule 'A' Company under Ministry of Defence, Govt. of India

Rear Dump Truck BH35-2 BH60M BH100 BH100S BH150E BH205E