

BH150E

REAR DUMP TRUCK

- 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

REAR DUMP TRUCK

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 ability.

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



ENGINE

Make	CUMMINS
Model	QSK50C - EPA Tier II Compliant
Type	IC-diesel, 4 stroke, Turbocharged, Charge air Cooled, Direct injection, Electronic engine.
Number of cylinders	16, V-Configuration
Bore x stroke	φ159 x 159 mm
Displacement	50.3
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	4 x 12 V, 75 Ah in series and parallel (Deep Cycles)
Alternator	24 V DC, 260A



DRIVE SYSTEM

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



FRAME

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

Type	Integral ROPS Cabin, Sound suppressed 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 Retard grids * Retard speed control * Rear view Camera

SAFETY

Battery (Relay Switch) * Brake Lock & Drive system interlock * Battery cut-off switch * Blind Spot Mirrors * Circuit breakers, 24 volts (miniature type resettable) * Dynamic Retarding with continuous rated grids * Engine shutdown at Ground level * Hoist Interlock * Electric horns * Power Steering Accumulator assisted Emergency steering * Seat belts * Anti collision 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 : Boost pressure * Battery voltage * Exhaust temperature * Engine percent load * Engine Oil pressure * Engine Water temperature * Engine speed * Engine Oil temperature * Fuel level * Intake manifold temperature * Hour meter * Odometer * Brake oil temperature * Speedometer

LIGHTING

Back up lights (2) * Brake and Retard lights * Clearance lights * Control cabinet service lights * Dynamic Retarding Rear (2) * Driving Light halogen (2) Fog light Halogen (2) * Head lights HID * Ladder Lights * Manual Back-up light switch * Service light in Rear Axle * LED Lamp for Turn signals * Stop and Tail lights * Under hood Service lights

OPTIONAL ATTACHMENTS

Body liners, Fast fuel filling, Heater unit.



STEERING SYSTEM

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

BRAKES

Service brakes	All hydraulic actuated
Front	Single Disc, 3-calipers.
Rear	Dual disc, 1 caliper / disc.
Emergency	Automatically applied when accumulator pressure drops below specified value.
Parking brake	Spring applied Hydraulic released
Retarder brake	Electro Dynamic Retarding with Grid Cooling
Meets SAE / ISO 3450 performance requirements.	

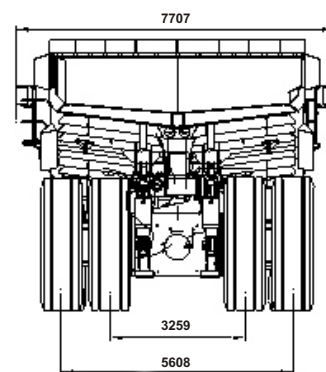
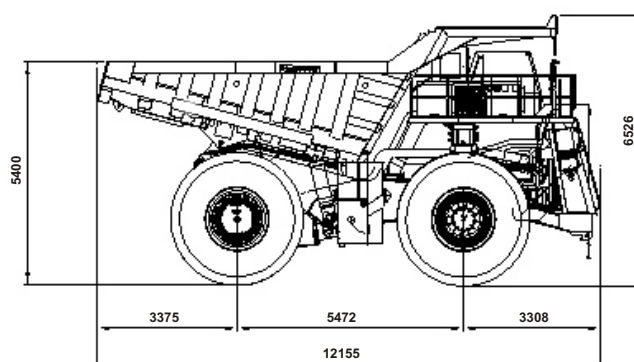
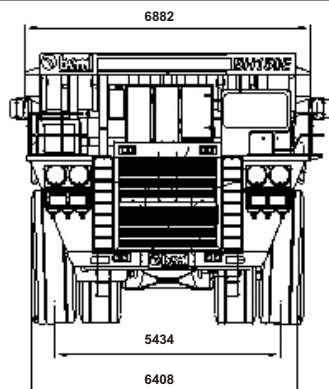
TYRES

Size (Front & Rear)	33.00 R51 Radial tyre
	36.00 R51 Radial tyre - OPTIONAL
Rim size	24" x 51" (26" x 51" OPTIONAL)

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

HYDRAULIC SYSTEM

Hydraulic pump	
Type	Tandem Pump - VANE type
Relief pressure	
Steering	210 bar (3045 psi)
Brake	210 bar (3045 psi)
Hoist cylinders	Twin, 3 stage double acting, Telescopic type
Hoist Timing	
Power up loaded	22 +/- 2 sec
Power down	13 +/- 2 sec



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

SUSPENSION

Type		
- Front	Frame mounted, Hydro-Pneumatic, integral rebound control.	
- Rear	Axle mounted, Hydro-Pneumatic, integral rebound control.	
Cylinders	Front	Rear
Quantity	2	2
Bore x stroke (mm)	336 x 382	336 x 410
Charging Height (mm)	290	295

BODY

Rubber Pad mounted.	
Exhaust heated type; Rugged bolster and sill construction	
BOTTOM PLATE	20mm thick plate of Tensile strength 1034 MPa
FRONT PLATE	12mm thick plate of Tensile strength 690 MPa
SIDE PLATE	10mm thick plate of Tensile strength 690 MPa

Volumetric capacity (m³)

STANDARD	
Struck	56
Heaped - SAE/ISO (2:1)	82
Loading Height	5400 mm
OPTIONAL	
Struck	59.0
Heaped - SAE/ISO (2:1)	86.0

MASSES

Net vehicle mass	107,000 kgs	
Rated payload	136,000 kgs	
Gross vehicle mass	243,000 kgs	
Mass distribution	Empty	Loaded
Front axle, kgs	50,300 (47%)	81,000(33%)
Rear axle, kgs	56,700 (53%)	1,62,000 (67%)

SYSTEM REFILL CAPACITIES

System	Capacity (Litres)
Cooling System	560
Fuel tank	3250
Crank case (including lube oil filters)	204
Hydraulic system	600
Motor Gear Box	40

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बी ई एम एल लिमिटेड BEML LIMITED

A Govt. of India Miniratna Company Under Ministry of Defence

Rear Dump Truck

BH35-2

BH40

BH60M

BH85-1

BH100

BH150E

BH205E

Form No. BH150E/001/07/2013