



- High Performance
- Enhanced Productivity
- Increased Reliability
- Excellent Serviceability
- Exceptional Manoeuvrability
- Superior Operator Comfort
- Improved Safety



	Rock Body	Coal Body
Max. Payload	: 54,500 kg	45,440 kg
Capacity (heaped) SAE/ISO 2:1	: 36.4 m³	45.44 m³
Flywheel power (net)	: 480 kW(644hp)@2000 rpm	

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BHGON REAR DUMP TRUCK

Salient Features :

Performance:

High power engine, AVTEC with Electronic Control System (ECS), planetary drive axle for optimum combination of speed and tractive effort.

Productivity:

High power to weight ratio allows higher acceleration and gradeability. Wide target area, large volumetric capaciy body and low loading height ensure high productivity.

Reliability:

AVTEC Automatic power shift transmission with ECS for ease of operation. AVTEC torque convertor ensures steady engine revolutions in response to variation of load, eliminates lugging and stalling of engine.

Serviceability:

Easier to maintain and repair due to unitised design and easy accessibility.

Manoeuvrability:

Orbitrol full time power steering, shorter turning radius provides higher manoeuvrability.

Comfort:

Ideally located spacious cabin with ergonomically designed operator control offers maintenance comfort and operational ease.

Safetv:

Features include ROPS cabin, emergency steering, sealed oil cooled disc brake.





Make	Cummins
Model	QSK 19-C TIER III Emission Compliant
Туре	Diesel, 4-stroke, turbocharged, Charged air
	cooled, Electronic Engine & water cooled
Flywheel power	480kW (644hp) @ 2000 rpm
Maximum torque	2875 Nm @1400 rpm (Net)
Cylinders	6 inline
Bore & Stroke	∞159x159mm
Displacement	19.0ℓ
Electricals	
Alternator	24V, 75A
Starting motor	24V, 9 kW
Battery	2 x 12 V, 200Ah
	TRAIN

Transmission AVTEC M6610A

AVTEC electronic shift control (ECS), TC 682 Torque Convertor, reverse and downshift inhibitor, Six Forward and two reverse speeds. Reverse is torque convertor drive. First gear has both convertor drive and direct drive. Gears second through sixth are direct for maximum efficiency (convertor drive is used momentarily for smooth shifting). Final Drive:

Planetary final drive with full floating axle shafts and plug-in differential carrier assembly.

RATIOS :						
Bevel set (diff	erential)	: 3	.85:1			
Planetary	,	:5	.70:1			
Total reductio	n	:2	1.945:1			
Maximum spe	ed	: 51.00 km/h				
Travel Speed	ls (km/h)					
Range	1st	2nd	3rd	4th	5th	6th
Forward	8.6	12.8	17.0	25.4	34.3	51.0
Reverse		R1:-5.	7	R2:-8.	5	

STEERING SYSTEM

Orbitrol power steering control with pressure compensating steering pump and two double-acting steering cylinders. Front Hydrair suspensions serve as steering kingpins to provide excellent manoeuvarability. Automatic supplemental, accumulator steering is standard

Turning circle radius	10.5m
Vehicle clearance diameter	24m
Steering pump capacity	85.9ℓ/min

TYRES

Standard tyre	24 x 35, 48 PR (E-4)
Optional	24 R 35, (Radial)
Rim	17 x 35
REMI recommon	de the user to evaluate all ich conditions and consult

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

STANDARD EQUIPMENT

Cab : Operator seat, Rubber floor mat, Sun visor, Windshield safety glass, Windshiled wiper and washer

General equipment : Air cleaner, dry type, Alternator, Body position indicator, Brakes, Caliper disc (front) Brakes oil disc (rear) Drive line protector, Electric system - 24 Volt, Fan, Guard, engine & transmission belly, Mirrors, rectangle LH, convex RH, Mud flaps for deck and tanks, Rock ejectors, Starter, electric, Starter key switch Two hooks, front & rear, Tow pins, rear, Air conditioner system.

Lighting : Back-up light, Dual combination stop and tail, Four headlamps with dimmer all Halogen, Turn signal + Hazard.

Instrumentation gauges : Brake oil temperature, Engine oil pressure, Speedometer, Tachometer, Transmission oil pressure, Transmission oil temperature, Voltmeter

Warning lights with Alarming : Brake lock, Brake/Hydraulic oil temperature, Coolant temperature, Low Brake pressure, Emergency steering, Engine oil pressure, Filter restriction-hydraulic, transmission, Parking brake, Steering accumulator pre-charge, Reverse flash

Standard Safety equipments : Battery relay, Back-up alarm (Audio Visual), Body, prop pin and storage, Brakes, emergency-manual & automatic, Brake, wheel lock, Brake Parking, Fan guard, handrails, Horn electric, Auto Retarder, Seat belts, operator and passenger seat, Engine coolant level, Automatic lubrication system, Electrically operated emergency steering system, Automatic fire suppression system, Skid resistant coating on walkways, Body lock, Steering lock

OPTIONAL EQUIPMENT & ACCESSORIES

Coolant level - Engine, Cab heater, Coal body, Body wear bars, Cold weather starting aid, Tyre inflation kit, Suspension and accumulator charging kit, On board payload system, Rear view Camera, VIMS (Vital Information Management System), Driver fatigue monitor system.



Front : Hydraulically actuated Rockwell calliper disc Braking Surface : 2,632 cm²

Rear : Oil-cooled hydraulically actuated multiple disc brakes provide both service and dynamic retarding. Brakes are sealed for protection from environmental contaminants. Braking Surface : 58193 cm²

Automatic emergency brake system : Unique designed brake controlmodule constantly monitors brake pressure in the dual brake accumulators and will activate an audio - visual alarm if pressure on either accumulator drops below a tolerable level. If pressure should continue to drop, service brakes will automatically apply.

Manual emergency braking system : In the event of failure of the brake pedal, the service brakes can be manually applied by an operator switch located on the instrument panel.

Parking brake :

Spring applied hydraulically released in board Parking Brake.

Dynamic retarder : Constant speed retarder is provided by a separate foot pedal for the retarder function, allowing the operator to apply the retarder without removing his hands from the steering wheel. The foot operated valve controls the hydraulically actuated oil-cooled wet disc brakes on the rear axle.

Wheel brake lock : Controlled by a switch on control panel activates and locks brakes while loading and dumping.

SUSPENSION

Hydrair:

Variable rate independent oil pneumatic suspension cylinders with integral rebound control. Suspension stroke front and rear is 276 mm.

Load/Deflection rate	Front	Rear	
Empty (kg/cm)	637	435	
Loaded (kg/cm)	2401	24385	

SYSTEM REFILL CAPACITIES

System	Capacity (I)
Engine lube oil	49.2
Cooling systems	181.7
Fueltank	790
Hydraulic tank	360
Transmission (sump plus ext. filters, lines, etc)	79.6
Final drive	212.2
Front spindle grease (EP-2)	13 kg



ROCKTYPE

V-shaped body with single-slope flat floor provides optimum carrying capacity and smooth, controlled dumping. Wide horizontal bolsters provide rigid support for the high tensile, heat-treated steel side. Bolt on body rubber pads cushion prevents the frame from loading shocks and are easily replaceable. Pivot exhaust heating is standard

Material Thickness	Rock Body	Coal Body
Floor Plates	20mm	20mm
Front Plates	12mm	12mm
Side Plates	10mm	10mm
Volumetric Capacity		
Struck Capacity	26.0 m ³	36.0 m ³
Heaped Capacity (SAE/ISO)2:1	36.4m³	45.4 m ³



Twin, two-stage hydraulic cylinders mounted outside frame rails for accessibility. Electro-hydraulic control provides quick response. Hydraulic system has dual full-flow, remote-mounted filters. 316 //min

Pump capacity	
Relief valve setting	
Body raise time	

18.96Mpa (193.34 kg/cm²) 13±2 seconds

CABIN

Integral ROPS cabin, engineered to provide superb working comfort, excellent visibility and maximum production efficiency. Features include tinted safety -glass, fully adjustable operator 's seat with seat belt, fresh air fan, insulation for sound and temperature control, convenient gauge arrangement, left and right hand external mirrors and sun visor.

MASS

	Rock Body		Coal Body	
Net vehicle mass	43,500 kg		44,06	1 kg
Rated payload	54,500 kg		45,440 kg	
Gross vehicle mas	ss 98,000) kg	89,50 <i>°</i>	1 kg
Mass distribution	Empty (kg)	Loaded (kg)	Empty (kg)	Loaded (kg)
Front axle	21,385	33,040	21,660	30,171
Rear axle	22,115	64,960	22,401	59,330



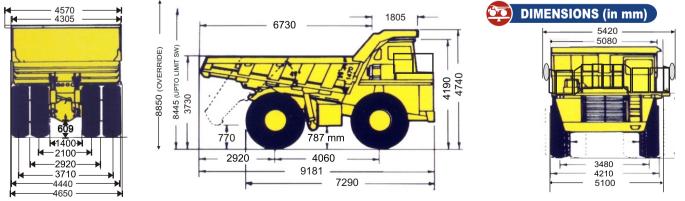
Box section main rails, proportioned to accommodate relative behind and torsional loads, are connected by tubbular cross members, an integral front bumper and rugged, continuous horse collar. Cross member to frame joints use large radii to minimise stress. The frame rails and other structural plates are fabricated from high yield strength steel. Castings at the rear cross members incorporate the body pivot, body-up pins and rear suspension strut pivot, as well as the panhard rod attachment.

70000 80000 10000 20000 30000 40000 50000 60000 90000 100000 400 4350C 98000 GV 35 25% 15% 8%

PERFORMANCE CHART

How to use this chart

- Enter chart at (gross vehicle weight) Determine total resistance, (grade in percent plus rolling resistance)
- Connect point on weight scale with point on total resistance scale and project it to tractive effort scale. Read required tractive effort. 3
- Δ Read horizontally from required tractive effort to intersect to appropria



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



TRUCK

TECHNICAL SPECIFICATIONS

बी ई एम एल लिमिटेड BEML LIMITED

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

Business Network

Corporate Office BEML Soudha, 23/1, 4th Main, S.R. Nagar, Bangalore – 560 027

T+918022963240,22963250

F+918022963278/516/280/164

E-mail: office@cpd.beml.co.in corpcomm@beml.co.in

REGIONAL OFFICES

REGIONAL OF FICES	
Bangalore	~ ~
3rd Floor, Unity Building, J. C. Road,	T +91 80 2296 3524
Bangalore - 560 002	T +91 97413 51588
Karnataka	E-mail: mg@beml.co.in
Bilaspur	
1-A, Industrial Area, Sector-C, Sirgitti,	T + 91 7752 252745, 252598
Bilaspur - 495 223.	F + 91 7752 252065
Chhattisgarh	E-mail: mv@beml.co.in
Neyveli	
F-4, Dr. Rajendraprasad Road,	T/F + 91 4142 268517
Block-27, Nevveli,- 607 803	T + 91 4142 265517 / 229392
Tamil Nadu	E-mail: ma@beml.co.in
Dhanbad	
Mouza - Kangalo, Amaghata,	
Govindpur,KG Ashram Post, Dhanbad	T + 91 94711 92023
Jharkhand – 828 109	E-mail:mf@beml.co.in
Hvderabad	
3-6-114, Street No.18, Himayat Nagar,	T + 91 40 2322 7032 / 94907 93117
Hyderabad - 500 029	F + 91 40 23221794
Telangana	E-mail: hyderabad@rm.beml.co.in
Kolkata	
35/1A, Taratala Road,	T + 91 33 2401 5286 / 87 / 98 / 99
Kolkata - 700 088.	F + 91 33 2401 5288
West Bengal	E-mail: kolkatta@rm.beml.co.in
Mumbai	
32A, Bazar Road,	T + 91 22 26431875 / 26435875
Near Jain Mandir, Bandra (West), Mumbai,	F + 91 22 26423928
Maharashtra - 400 050	E-mail: mumbai@rm.beml.co.in
Nagpur	E-mail: mumbal@m.bemi.co.in
No 33, Cement Road,	T + 91 712 2248435 / 2248343
	F + 91 712 22484357 2248343
Shivaji Nagar,	
Nagpur - 440 010, Maharashtra.	E-mail: nagpur@rm.beml.co.in
Flat E.F.G.H. 'Vandana'. 11th Floor.	T + 91 11 2344 3511 / 3528 / 2331 650
11, Tolstoy Marg, Connaught Place,	F + 91 11 2332 5085
New Delhi - 110 001	E-mail: mlm@rm.beml.co.in
Ranchi	
206/D-1, Bhagirathi, (Behind NCC Campus)	
Rameshwaram Colony, Bariatu Road,	T + 91 651 2540710 / 94311 08531
Ranchi, Jharkhand - 834 009	E-mail: ranchi@rm.beml.co.in
Sambalpur	
BEML Complex, NH-6, Panchagachhia,	
Baraipalli Post, Sambalpur 768 006	T + 91 663 2521604 / 2521389 ~~
Odisha.	E-mail: mb@beml.co.in
Singrauli	
PB No. 5, Jhingurdha Colliery,	T + 91 7805 272668 / 272318
Singrauli - 486 889	F + 91 7805 272282
Madhya Pradesh.	E-mail: singrauli@rm.beml.co.in
M	
ACTIVITY CENTRES	
Bhopal	
Ground Floor, Hall No.1, Chittod Complex, Zone-1,	T + 91 755 2550711 / 8989459753
Maharanapratan Nagar (MP Nagar) Bhonal - (62.011	

Ground Floor, Hall No.1, Chittod Complex, Zone-1, Maharanapratap Nagar (MP Nagar), Bhopal - 462 011	T + 91 755 2550711 / 8989459753
Panjim BEML Limited, 5/4, Victor Building, Fontanhas, Mala, Panjim - 403 001, Goa	T +91 832 2225135 / 77986 87178 E-mail: goa@rm.beml.co.in
Itanagar C/o. Tobom Riba, H-Sector, Papum Itanagar – 791 113, Arunachal Pradesh	T + 91 94029 34205 / 88372 15852 E-mail: mcgi@beml.co.in
Kochi No. 39/2122, Chittoor Road, Ernakulam South, Kochi – 682 016	T + 91 484 2375138 E-mail: kochi@rm.beml.co.in
Maihar Maihar, Madhya Pradesh	Mob: +91 79875 53768
Silapathar: Surya Vatika, Amritpur, Silapathar, Assam - 787 0	59 T +91 95311 29059

International Business Division

Flat No. E,F,G, H, 'Vandana' 11th Floor, 11, Tolstoy Marg, Connaught Place New Delhi – 110 001 T + 91 11 23316500 F + 91 11 23325085

E-mail: mx@beml.co.in

<u>Marketing Division</u>

5th Floor, Unity Building, J.C. Road, Bangalore – 560 002

T + 91 80 22963501/02/07/510/540

F + 91 80 22963541

E-mail: m@beml.co.in mmd@beml.co.in

DISTRICT OFFICES

DISTRICT OFFICES	
Ahmedabad	
99/100, BEML HOUSE, 2nd Street,	T + 91 79 26445523 / 94264 13620
Azad Society, Ambawadi,	F + 91 79 26423950
Ahmedabad - 380 015, Gujarat	E-mail: ahmedabad@rm.beml.co.in
Asansol	
3, Burnpur Road,	T + 91 341 2252480
Asansol - 713 304	F + 91 341 2250601
West Bengal	E-mail: asansol@rm.beml.co.in
Bacheli	
Behind Central Stores of NMDC Ltd.,	T/F + 91 7857 230005
Depot 5, Bacheli - 494 553.	E-mail: bacheli@rm.beml.co.in
Chhattisgarh	
Bhilai	T + 91 788 2223880
Room no 22/C, BSP Expansion Building,	F + 91 788 2221652
Near Ispat Bhavan, Bhilai 490 001, Chhattisgarh	E-mail: mnboffice@beml.co.in
Bhubaneswar	
252/A, Lewis Road	T + 91 674 2434427 / 99373 83950
Bhubaneswar - 751 014	
Odisha	E-mail: mbb@beml.co.in
Chandrapur	
Mamidwar, Tiles Factory Compound	T + 91 7172 287230
Ghugus Road, Padoli	F + 91 7172 287560
Chandrapur - 442 406 Maharashtra	E-mail: mnc@beml.co.in
Chennai	
Flat No. 10, Supriya Estates,	T + 91 44 28220844
No.3, Sterling Road, Nungambakkam,	F + 91 44 28257319
Chennai - 600 034, Tamil Nadu,	E-mail: chennai@rm.beml.co.in
Guwahati	
No.11, Ward 43, Hengrabari Road,	T + 91 361 2232966
Ganesh Puri, Dispur,	F + 91 361 2232967
Guwahati - 781 006 Assam	E-mail: guwahati@rm.beml.co.in
Hospet	T/F + 91 8394 230172
No.1431, Manjunatha Complex, Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,	1/F + 91 6394 230172
Dam Road, Hospet - 583 203, Karnataka	E-mail: hospet@rm.beml.co.in
Jammu	L-mail. hospet@m.bemi.co.in
62C, Block D/C, Gandhi Nagar,	T + 91 191 2459 437
Jammu tawi - 180 004	F + 91 191 2430 447
Jammu and Kashmir	E-mail: mlj@beml.co.in
Kothagudem	
Old Project Planning Department,	T + 91 8744 245572
Near SCCL Corporate Office,	F + 91 8744 245530
Kothagudem - 507 101, Telangana	E-mail: kothagudem@rm.beml.co.in
Leh	
174-B, (Near Royal Enfield Showroom),	T + 91 1982 258828 / 94198 71008
Housing Colony, Leh, Ladakh -194 101	E-mail : mll@beml.co.in
Ramagundam	
Near SCCL TTC, Jawahar Nagar,	
Behind CISF Camp, Godavarikhani - 505 209.	T + 91 8728 248299 / 94408 58441
Peddapalli Dist.,Telangana	E-mail: mhr@beml.co.in
Udaipur	
20-B,Uchhab Bhavan, Bedla Road,	
Fatehpura, Udaipur - 313 001.	T + 91 294 2452054
Rajasthan	E-mail: mwu@beml.co.in
Visakhapatnam	
No. 8-45-11, 4th Lane, Vidyanagar Chinna Waltair Colony	T/F +91 891 2754608 / 83320 54590
Visakhapatnam - 530 003, Andhra Pradesh	E-mail: vizag@rm.beml.co.in
www.bemlindia.in	
Represented by:	

Form No. BH60M/01/2020

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BEML LIMITED

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

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BH150E