



- Reliable Performance
- Outstanding Productivity
- Reliability
- Serviceability
- Manoeuvrability
- Comfort
- In-built Safety
- Total Customer Support



BH100

Max. Payload : 91000 kg

Body Capacity : 60 m³

Flywheel Horse power : 1031 hp @ 2100 rpm

BH100

REAR DUMP TRUCK

Salient Features:

Reliable Performance

High power Cummins (India) QST30 engine, rugged BEML Powershift transmission and BEML heavy - duty planetary axle provide optimum combination of speed and tractive effort.

Outstanding Productivity

High power to weight ratio gives ample reserve power for faster cycle time. More target area, higher volumetric capacity and a low loading height ensures high productivity.

Reliability

Adjustment free wet multiple disc brakes for rear axle and dry caliper disc brakes for front axle offers long life.

Serviceability

Low maintainability and repairability index, evaluated through SAE-J817A, 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.

Comfort

Ideally located spacious cabin with ergonomically designed operator seat and controls, offer maximum comfort and operational ease.

In-built Safety

Features include ROPS cabin, emergency power steering, auto retarder and dual brake system to meet relevant safety standards.

Total Customer Support

The best in the Industry





Make	Cummins
Model	QST30
Туре	IC-Diesel, 4 stroke, turbocharged, after cooled, electronic injection, water cooled, Tier2 emission norms
No. of cylinders	12, V-type
Bore & Stroke (mm)	⊘140 x 165
Displacement	30.5 ltrs.
Flywheel power (net)	769 kW (1031 hp)@ 2100 rpm
Maximum net torque	4775 Nm @ 1500 rpm
	(Meet - SAEJ1349)
Electricals	
Starting motor	24V DC, 9KW (2nos.)
Battery	4 x 12 V, 200 Ah
Alternator	24 V DC, 75 A

O POWER TRAIN

Transmission						
Model	BEN	ΛL				
Type	Pow	ershift, 7	F/IR			
Drive axle						
Model	BEN	ΛL				
Type	Full	floating,	planetary	,		
Differential		_				
Туре	Star	ndard				
Ratio	3.07	<u>':1 </u>				
Final Drive						
Type	Plar	etary ge	ar			
Ratio	7.93	8:1				
Total reduction	24.3	79 : 1				
Travel speeds (I	km/h)					
Range 1st	2nd	3rd	4th	5th	6th	7th
Forward 8.59	12.09	16.28	21.92	29.51	40.28	56.43
Reverse			10.24			

	LIVERALII IA AVARRIA
250	HYDRAULIC SYSTEM
~"	

Hydraulic Pump	
Туре	2 nos. of tandem gear pump for hoisting, steering and brake oil cooling.
Capacity	1) Steering & Hoist Pumps: 525 lpm @ Engine
	rated 2100 rpm
	2) BOC pump : 636/pm @ engine rated 2100 rpm
	3) Parking Brake pump:53 lpm @ 2100 rpm
Relief Pressure	
Hoist	22.07 MPa (225 kg/cm²)
Brake oil cooler	0.735MPa(7.5 kg/cm²)
Hoist cylinders	Twin, 3 stage double acting, telescopic type
Body Hoist time	12 +/- 1.5 Sec.

STANDARD EQUIPMENT

GENERAL: Air dryer, Air horn, Vandalism Protection kit, Windshield washer, Dump brake, Right & Left hand Mirror, Auto fire protection system, portable fire extinguisher, Tool kit, parking Brake, Tiltable steering column, Auto Lube System, Exhaust Heated Body, Cat walk, Mud flap, Shift Indicator, Rock Ejectors, Cabin Floor Mat, Safety Seat Belt, Co-operator seat, Emergency Brake, Fresh air fan, Tow Hooks front & rear, Air conditioner, Auto emergency steering, Wheel stopper

Battery relay, Head Lights, Ladder light, Pay load monitoring, Vehicle Monitoring system & Hoist Controls. Alternator, Key switch, Wiper motor, Gauge Light, Front Brake Cut-off switch, Engine Shut-off switch, LED lamps for turn signal, Tale hazard, Parking & stop lights. Power Windows (LH), Air operated seat.

GAUGES: Ammeter, Volt meter, Air pressure, Engine oil pressure, Water temperature, Transmission oil temperature, Speedometer, Tachometer, Engine Oil Temperature, Brake oil temperature.

ALARM: Air Pressure, Water Temperature, Transmission oil Temperature & pressure, Engine oil Pressure, Brake oil temperature, Body up & parking Brake 'ON' Back Up Alarm, Radiator water level,

GUARDS: Engine & Transmission belly guard, Cab spill guard, Drive line protector, Radiator fan guard & Hand rails,

OPTIONAL ATTACHMENTS: Tyre Inflation kit, Suspension Charging kit, Exhaust Muffler, (Non-Exhaust heated body), fast fuel system, Work lamp Rear view camera, Body wear plate, Numerical payload score board, outside cabin, Radio AM/FM. Auto dipping system, Electronic type, proximing avoidance system individual bank monitoring system for auto lube system, radial tyre (27 R 49), rear axle with SAHR wet multiple disc with, parking brake, EPA-Tier 2 complaint engine, 160Ah sealed maintenance free battery telecopic steering coloumn ABS (Anti-lock Brake System), ASR (Automatic Spin Regulator).



Type - Front	Frame mounted rebound control	, hydro-pneumatic, integral
- Rear	,	nverted hydropneumatic, integral
	rebound control	
Cylinders	Front	Rear
Quantity	2	2
Bore x stroke (mm)		
Charging pressure	4.31MPa	3.31MPa
	(44.7 kg/cm ²)	(33.8 kg/cm²)
Load/Deflection rate		
Empty (kg/cm)	1401	2344
Loaded (kg/cm)	11670	107120



Туре	Orbitrol, full hydraulic power steering
Cylinder	
Туре	Double acting, piston type
Quantity	Two
Bore xStroke	Dia 120mmx 475mm
Relief pressure	21.6Mpa (210 kg/cm²)
Emergency steering	Electrically driven hydraulic pump & motor
Performance	
Turning radius	10.8m
Vehicle clearance	21.0m
diameter	



Service Brakes	
Front	Air-over-hydraulic, dry caliper disc
Rear	Air-over-hydraulic, wet multiple disc
Emerge ncy brakes	Air-over-hydraulic, automatic application
	through relay emergency valves.
Parking brake	Spring applied hydraulic released inboard parking brake.
Retarder brake (Meets the SAEJ147	Rear brake serves as retarder brake 3 and ISO 3450 performance requirements).



Size (Front & Rear)	27.00 x 49.00, 48 PR
Rim size	19.5 x 49
DEMI as as assessed a Ale	A CARACTER AND

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



SYSTEM REFILL CAPACITIES

Systems	Capacity (litres)
Cooling systems	270
Fuel tank	1400
Engine lub. oil	130
Transmission & Torque converter	110
Differential	115
Final drive (each side)	120
Hydraulic tank: (Split type) BOC	306
Steering & Hoist	266
Air tanks	175
Suspension - Front	22.5 (each)
- Rear	19.2 (each)



Plate thickness (mm)	
Bottom plate	19
Side plate	9
Front plate	12
Target area (mm²)	
(Length x Width x Depth) mm	7077 x 5200 x 1880
Volumetric capacity	
Struck	41.73 (m³)
Heaped - SAE/ISO (2:1)	60.0 (m³)



Туре	Integral ROPS cabin, Sound
	suppress with electronic display
	dashhoard

(Meets ROPS performance criteria as per ISO 3471)

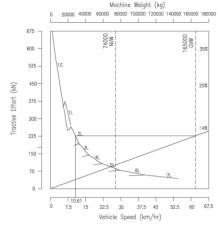


Box section construction made of high tensile $strength\ steel\ with\ integral\ castings.$



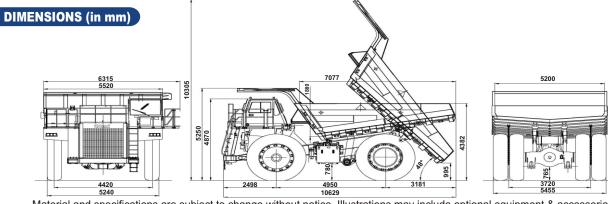
Net vehicle mass	74,000 kgs		
Rated payload	91,000 kgs		
Gross vehicle mass	1,65,000 kgs		
Mass distribution	Empty	Loaded	
Front axle, kgs	34,780	54,450	
_	(47%)	(33%)	
Rear axle, kgs	39,220	1,10,550	
	(53%)	(67%)	





How to use this chart:

- Enter Chart at GVW.
- Enter Chart at GVW.
 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.
 Read horizontally from required tractive effort to intersect to appropriate speed.



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



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 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

Marketing Division

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

PECIONAL OFFICES

Bangalore	T :04 07442 54500
4th Floor, Unity Building, J. C. Road, Bangalore - 560 002 Karnataka	T +91 97413 51588 E-mail: mg@beml.co.in
Bilaspur	
1-A, Industrial Area, Sector-C, Sirgitti, Bilaspur - 495 223. Chhattisgarh	T + 91 7752 252745, 252598 F + 91 7752 252065 E-mail: mv@beml.co.in
Nevveli	E-mail. mv@bemi.co.m
F-4, Dr. Rajendraprasad Road,	T/F + 91 4142 268517
Block-27, Neyveli,- 607 803 Tamil Nadu	T + 91 4142 265517 / 229392 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
Hyderabad	
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: rm.hyderabad@beml.co.in
Kolkata	My S
35/1A, Taratala Road,	T + 91 33 2401 5286 / 87 / 98 / 99
Kolkata - 700 088.	F + 91 33 2401 5288
West Bengal	E-mail: rm.kolkatta@beml.co.in
Mumbai	T . 04 00 00404075 (00405075
32A, Bazar Road,	T + 91 22 26431875 / 26435875
Near Jain Mandir, Bandra (West), Mumbai,	F + 91 22 26423928
Maharashtra - 400 050	E-mail: rm.mumbai@beml.co.in
Nagpur No 33, Cement Road,	T + 91 712 2248435 / 2248343
Shivaji Nagar,	F + 91 712 2249997
Nagpur - 440 010, Maharashtra.	E-mail: mn@beml.co.in
New Delhi	
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: ml@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: mr@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	T : 04 7005 070000 (070040
PB No. 5, Jhingurdha Colliery,	T + 91 7805 272668 / 272318
Singrauli - 486 889	F + 91 7805 272282
Madhya Pradesh.	E-mail: rm.singrauli@beml.co.in

ACTIVITY CENTRES

Bhopal 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
Itanagar C/o. Tobom Riba, H-Sector, Papum Itanagar – 791 113, Arunachal Pradesh	T + 91 94029 34205 / 88372 15852
Kochi No. 39/2122, Chittoor Road, Ernakulam South, Kochi – 682 016	T + 91 484 2375138 E-mail: rm.kochi@beml.co.in
Maihar Maihar, Madhya Pradesh	Mob: +91 79875 53768
Silapathar: Surya Vatika, Amritpur, Silapathar, Assam - 787 059	T +91 95311 29059

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: rm.ahmedabad@beml.co.in
	3, Burnpur Road,	T + 91 341 2252480
	Asansol - 713 304	F + 91 341 2250601
	West Bengal	E-mail: mca@beml.co.in
	Bacheli	L-mail. mca@bemi.co.iii
	Behind Central Stores of NMDC Ltd.,	T/F + 91 7857 230005
	Depot 5, Bacheli - 494 553.	E-mail: rm.bacheli@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: mnb@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	T - 04 7470 007000
	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	T + 01 44 20220044
	Flat No. 10, Supriya Estates, No.3, Sterling Road, Nungambakkam,	T + 91 44 28220844 F + 91 44 28257319
	Chennai - 600 034, Tamil Nadu,	E-mail: rm.chennai@beml.co.in
	Guwahati	E-mail. m.criennai@bemi.co.in
	No.11, Ward 43, Hengrabari Road,	T + 91 361 2232966
	Ganesh Puri, Dispur,	F + 91 361 2232967
	Guwahati - 781 006 Assam	E-mail: rm.guwahati@beml.co.in
	Hospet	
	No.1431, Manjunatha Complex,	T/F + 91 8394 230172
	Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,	
	Dam Road, Hospet - 583 203, Karnataka	E-mail: rm.hospet@beml.co.in
	Jammu	
	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	T 04 0744 045570
	Old Project Planning Department,	T + 91 8744 245572
	Near SCCL Corporate Office,	F + 91 8744 245530
	Kothagudem - 507 101, Telangana Leh	E-mail: rm.kothagudem@beml.co.in
	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	L mail: milegoom.co.m
	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	T/F +91 891 2754608 / 83320 54590
- 1	No. 8-45-11, 4th Lane,	E-mail:rm.vizag@beml.co.in
	Vidyanagar Chinna Waltair Colony	30
	Visakhapatnam - 530 003, Andhra Pradesh	

www.bemlindia.in

बी ई एम एल लिमिटेड BEML LIMITED