

BD80

CRAWLER DOZER



Salient Features :

- Turbocharged BEML BS6D125-1
- Helical Gear, Constant mesh, Hand Operated Transmission
- Study Construction of Chassis and Track frame.
- Groove type Floating Seals in all rollers



BD80

Flywheel horsepower (net) : 134 kW (180 hp)
@ 1850 rpm

Operating mass : 21550 kg
(with angle dozer)

www.bemlindia.in

BD80

CRAWLER DOZER

Salient Features :

- BEML BS6D125-1 Direct injection type diesel engine for sustained power and economy.
- Sturdy box type construction Main frame designed to withstand shocks and stresses of heavy dozer work.
- Hydraulically actuated, oil cooled main clutch
- Heavy duty, constant mesh transmission with helical gears.
- Hydraulically actuated, self-adjusting oil cooled steering clutches for long life. Steering brakes are also oil cooled.
- Hydraulically controlled dozer blade with fully ribbed mould board.
- Floating - seals in all rollers, idlers and sprockets.
- Special dust seals for prevention of abrasive dirt entry into the pin and link bushing clearances which ensures longer track services.



ENGINE

Make	BEML
Model	BS6D125-1
Type	Water cooled 4 cycle, Turbo charged, direct injection diesel engine.
No. of cylinders	6, inline
Bore x Stroke	ø 125 x 150 mm
Displacement	0.01100m³ (11.00 l)
Horse Power	
Rated bhp	143 kW (192 hp) @ 1850 rpm
Fly wheel power	134 kW (180 hp) @ 1850 rpm in accordance with IS:13116/ISO:9249
Maximum torque	784.8 Nm @ 1100 rpm
Fuel System	
Type	Bosch Inline FIP
Governor	Mechanical, all speed control
Lubrication System	
Method	Forced lubrication
Pump	Gear pump
Filter	Full flow
Oil Cooler	Water cooled
Cooling System	
Type	Centrifugal water pump pusher type fan
Air Cleaner	
Type	Dry, horizontal type
Electricals	
Alternator	24 V, 55A
Starting motor	24 V, 7.5 kW
Battery	2x12 V, 200 Ah



POWER TRAIN

Transmission		Direct drive	
System			
Main Clutch			
Type	Wet, multiple disc overcenter engagement, hand operated with inertia brake and hydraulic booster		
Transmission			
Type	Helical gear, constant mesh, hand operated		
Bevel gear	Spiral type, single reduction		
Final Drive			
Type	Spur gear, double reduction		
Reduction ratio	17.187		
Gear Shift	5 Forward, 4 Reverse		
Travel speeds m/sec (km/h)			
Range	Forward	Drawbar - Pull (kg)	Reverse
1st	0-0.7 (0-2.4)	17,250	0-0.87 (0-3.1)
2nd	0-0.95 (0-3.4)	12,180	0-1.26 (0-4.5)
3rd	0-1.45 (0-5.2)	7,960	0-1.87 (0-6.7)
4th	0-2.07 (0-7.4)	5,600	0-2.69 (0-9.6)
5th	0-2.80 (0-10.0)	4,160	

STANDARD ACCESSORIES

Ammeter	Water temperature gauge
Tacho hour meter	Tool kit
Head lamps & rear lamp	High water temperature Indicator
24V, 55A alternator	Low engine oil pressure indicator
Warning lamp	Light switch
Engine oil pressure gauge	Canvas canopy
Angle Dozer attachment	

OPTIONAL ATTACHMENTS

Steel Cabin	Straight Dozer
Steel top canopy	Straight Tilt Dozer
Rake dozer straight	Multi Shank Ripper
Coal Dozer	Drawbar fixed type
Dozer for steel mill	Track shoe of width 610 mm
Pusher plate	Track shoe of width 660 mm
Towing winch	Preheater

HYDRAULIC SYSTEM

Hydraulic Pump

Type	Gear pump
Capacity	269 ℓ / min @ 1850 r/min
Relief pressure	13.73 MPa (140 kg/cm ²)

Hydraulic Cylinders

Type	Double acting piston
Blade Lift	2 cylinders
Bore x Stroke	∅ 120 x 1014 mm

STEERING

Steering clutch

Type	Wet, multiple disc hydraulic, together with spring type booster
Control	Hand operated with back - up booster

Steering Brake

Type	Wet, contracting band
Control	Foot operated supported by efficient linkages for light touch actuation.

UNDER CARRIAGE

Suspension	Semi-rigid equalizer bar type
Track frame	Box-section, high tensile strength steel construction
Track rollers	6 nos. each side
Carrier rollers	2 nos. each side

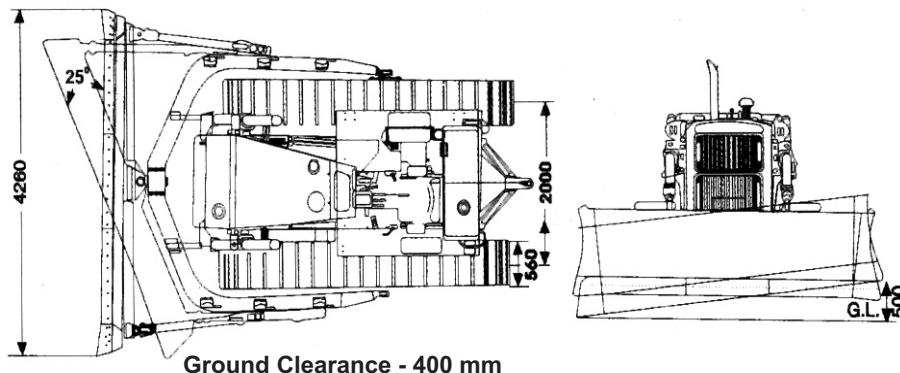
Track shoes

Type	Single Grouser
Grouser height	65 mm
Shoe width	560 mm
No. of shoes	38 nos. on each side
Ground pressure (Tractor only)	0.58 kg/cm ²
Ground contact area	30576 cm ²

OPERATING MASS

Operating mass - Tractor only (Including rated capacity of lubricant, coolant and fuel) 17,630 kg

DIMENSIONS mm



DOZER EQUIPMENT

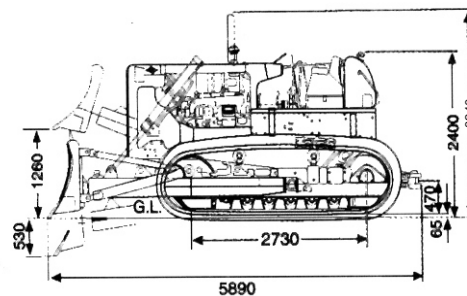
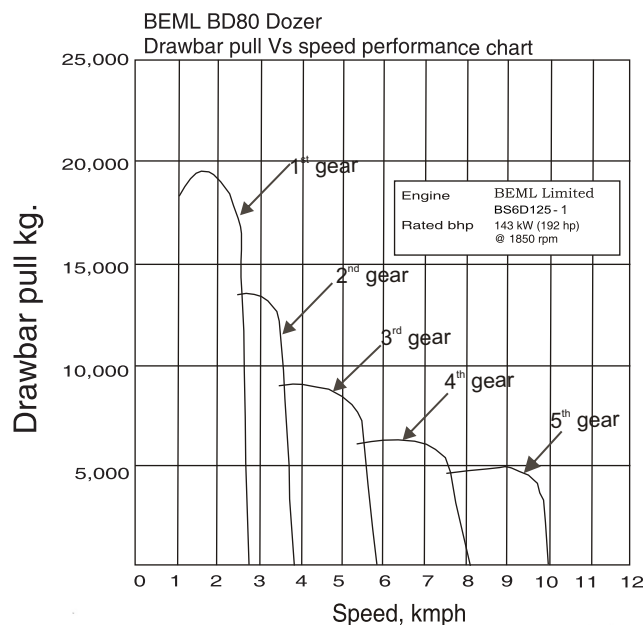
	Angle Dozer	Straight Tilt dozer	Coal dozer
Over length with dozer (mm)	5890	5660	6000
Blade length x height (mm)	4260 x 1080	3460 x 1280	4450 x 1540
Max. lift above ground (mm)	1260	1175	1275
Max. drop below ground (mm)	530	610	535
Max. tilt adjustment (mm)	500	735	*
Additional ground pressure (kg/cm ²)	0.13	0.11	0.13
Mass (kg)			
Blade	3470	2880	3540
Hydraulic Control Unit	450	450	450

* Tilt cylinder for coal dozer is optional

COOLANT & LUBRICANT

System (Refilling)	Capacity in ℓ
Crank case	32
Fuel Tank	420
Cooling System	65
Transmission (including steering system)	75
Final drive (each side)	36
Hydraulic tank	105
Main clutch	25

DRAWBAR PULL



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

BD80

CRAWLER
DOZER

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 + 91 80 22963240, 22963250

F + 91 80 22963278/516/280/164

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

REGIONAL OFFICES

Bangalore

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

Neyveli

F-4, Dr. Rajendraprasad Road,
Block-27, Neyveli, - 607 803
Tamil Nadu

T/F + 91 4142 268517
T + 91 4142 265517 / 229392
E-mail: ma@beml.co.in

Dhanbad

Mouza - Kangalo, Amaghata,
Govindpur, KG Ashram Post, Dhanbad
Jharkhand - 828 109

T + 91 94711 92023
E-mail: mf@beml.co.in

Hyderabad

3-6-114, Street No.18, Himayat Nagar,
Hyderabad - 500 029
Telangana

T + 91 40 2322 7032 / 94907 93117
F + 91 40 2322 1794
E-mail: rm.hyderabad@beml.co.in

Kolkata

35/1A, Taratala Road,
Kolkata - 700 088.
West Bengal

T + 91 33 2401 5286 / 87 / 98 / 99
F + 91 33 2401 5288
E-mail: rm.kolkata@beml.co.in

Mumbai

32A, Bazar Road,
Near Jain Mandir, Bandra (West), Mumbai,
Maharashtra - 400 050

T + 91 22 26431875 / 26435875
F + 91 22 26423928
E-mail: rm.mumbai@beml.co.in

Nagpur

No 33, Cement Road,
Shivaji Nagar,
Nagpur - 440 010, Maharashtra.

T + 91 712 2248435 / 2248343
F + 91 712 2249997
E-mail: mn@beml.co.in

New Delhi

Flat E,F,G,H, 'Vandana', 11th Floor,
11, Tolstoy Marg, Connaught Place,
New Delhi - 110 001

T + 91 11 2344 3511 / 3528 / 2331 6500
F + 91 11 2332 5085
E-mail: ml@beml.co.in

Ranchi

206/D-1, Bhagirathi, (Behind NCC Campus)
Rameshwaram Colony, Bariatu Road,
Ranchi, Jharkhand - 834 009

T + 91 651 2540710 / 94311 08531
E-mail: mr@beml.co.in

Sambalpur

BEML Complex, NH-6, Panchagachhia,
Baraipalli Post, Sambalpur 768 006
Odisha.

T + 91 663 2521604 / 2521389
E-mail: mb@beml.co.in

Singrauli

PB No. 5, Jhingurdha Colliery,
Singrauli - 486 889
Madhya Pradesh.

T + 91 7805 272668 / 272318
F + 91 7805 272282
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, Emakulam 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,
Azad Society, Ambawadi,
Ahmedabad - 380 015, Gujarat

T + 91 79 26445523 / 94264 13620
F + 91 79 26423950
E-mail: rm.ahmedabad@beml.co.in

Asansol

3, Bumpur Road,
Asansol - 713 304
West Bengal

T + 91 341 2252480
F + 91 341 2250601
E-mail: mca@beml.co.in

Bacheli

Behind Central Stores of NMDC Ltd.,
Depot 5, Bacheli - 494 553.
Chhattisgarh

T/F + 91 7857 230005
E-mail: rm.bacheli@beml.co.in

Bhilai

Room no 22/C, BSP Expansion Building,
Near Ispat Bhavan, Bhilai 490 001, Chhattisgarh

T + 91 788 2223880
F + 91 788 2221652
E-mail: mnb@beml.co.in

Bhubaneswar

252/A, Lewis Road
Bhubaneswar - 751 014
Odisha

T + 91 674 2434427 / 99373 83950
E-mail: mbb@beml.co.in

Chandrapur

Mamidwar, Tiles Factory Compound
Ghugus Road, Padoli
Chandrapur - 442 406 Maharashtra

T + 91 7172 287230
F + 91 7172 287560
E-mail: mnc@beml.co.in

Chennai

Flat No. 10, Supriya Estates,
No.3, Sterling Road, Nungambakkam,
Chennai - 600 034, Tamil Nadu,

T + 91 44 28220844
F + 91 44 28257319
E-mail: rm.chennai@beml.co.in

Guwahati

No.11, Ward 43, Hengrabani Road,
Ganesh Puri, Dispur,
Guwahati - 781 006 Assam

T + 91 361 2232966
F + 91 361 2232967
E-mail: rm.guwahati@beml.co.in

Hospet

No.1431, Manjunatha Complex,
Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,
Dam Road, Hospet - 583 203, Karnataka

T/F + 91 8394 230172
E-mail: rm.hospet@beml.co.in

Jammu

62C, Block D/C, Gandhi Nagar,
Jammu tawi - 180 004
Jammu and Kashmir

T + 91 191 2459 437
F + 91 191 2430 447
E-mail: mlj@beml.co.in

Kothagudem

Old Project Planning Department,
Near SCCL Corporate Office,
Kothagudem - 507 101, Telangana

T + 91 8744 245572
F + 91 8744 245530
E-mail: rm.kothagudem@beml.co.in

Leh

174-B, (Near Royal Enfield Showroom),
Housing Colony, Leh, Ladakh -194 101

T + 91 1982 258828 / 94198 71008
E-mail : mll@beml.co.in

Ramagundam

Near SCCL TTC, Jawahar Nagar,
Behind CISF Camp, Godavarikhani - 505 209.
Peddapalli Dist., Telangana

T + 91 8728 248299 / 94408 58441
E-mail: mhr@beml.co.in

Udaipur

20-B, Uchhab Bhavan, Bedla Road,
Fatehpura, Udaipur - 313 001.
Rajasthan

T + 91 294 2452054
E-mail: mww@beml.co.in

Visakhapatnam

No. 8-45-11, 4th Lane,
Vidyanagar Chinna Waltair Colony
Visakhapatnam - 530 003, Andhra Pradesh

T/F + 91 891 2754608 / 83320 54590
E-mail : rm.vizag@beml.co.in

www.bemlindia.in

Represented by:

बी ई एम एल लिमिटेड
BEML LIMITED

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