



Salient Features:

- Turbo charged BEML BS6D170-1 Engine
- Power Shift Transmission
- Sturdy construction of Track frames & Mainframe
- Operator Comfort with Arm Chair steering
- Pilot Operated Hydraulic System for work attachment
- Wet Multiple disc steering clutches and brakes
- Durable work attachment
- Segmented sprockets
- Reduced vibration and noise levels
- Hexagonal ROPS-FOPS Cabin for better visibility



BD155

Flywheel Power (FHP) : 242 kW (324 HP) @ 2000 rpm

Operating Mass : 39,105 kg

(With Straight tilt Dozer)

BD155

CRAWLER DOZER

Salient Features:

BEML BS6D170-1 Engine: Engine is environment friendly as it ensures low level of vibration, noise and smoke.

Power Shift Transmission: Smooth and responsive gear shift with single-lever control for instant speed and directional

Operator Comfort: Conveniently located armchair steering control for enhancement operator comfort with Hexagonal sound suppressive cabin.

Pilot Operated Hydraulic System: It offers effortless fine control blade through joystick.

Wet multiple disc steering clutches and brakes: Hydraulically inter linked steering clutch and brakes provide excellent maneuverability during gradual and pivot turns.

BEML unique engine speed control mechanism through braking (patent pending) gives better equipment control and helps reduces brake band wear and oil contamination.

Sturdy Construction: Track-roller frames are made of high tensile steel for maximum rigidity

Durable Work Attachment: High tensile steel blades of different configurations available for varying types of working conditions and applications. The attachment is sturdy in construction to withstand adverse ground conditions.

Segmental Sprockets: Bolt-on type segmented sprocket permits quick on site replacement. Special grooved type floating seals and unique dust seals provide extended undercarriage life.

Reduced vibration and noise levels: Radiator, fuel tank, floor frame, Engine and cabin are mounted on antivibration rubber cushions to isolate vibration and reduce noise levels.

Groove-type Floating Seals: These special seals are used in the idlers, track and carrier rollers to keep dirt out and lubricant in for extended undercarriage life, as well as reduced maintenance cost.



OPTIONAL FEATURES:

Electronic Governed engine is available. Electronic transmission with joystick control for Steering and Transmission is available.



Make & Model	BEML BS6D 170-1 / BS6D170EG(optional)		
Type	6 inline Diesel,	6 inline Diesel, 4 stroke, water cooled, turbo	
	charged, direct in	charged, direct injection, Mechanical Governed	
	(Electronic Gove	rned as optional)	
Flywheel Power	242 kW (324 hp)	@ 2000 rpm in accordance	
	with IS:13116 / IS	SO:9249	
Max. Torque	1456N-m (148.5	1456N-m (148.5 kg-m) at 1400 rpm	
No. of cylinders	6, inline		
Bore x Stroke	∞ 170 x 170 mm		
Displacement	23.15 ½ (0.02315m³)		
Electrical	Alternator	24 V, 100A / 140A	
	Starting Motor	24 V / 9 kW	
	Battery	2x12 V, 200 Ah / 160 Ah	



Torque Convertor	Stall Ratio	2.4
	Type	3 element, single stage single
		phase
Transmission	Type	3F/3R, Planetary powershift
		transmission (Electronically
		controlled as optional.)



FINAL DRIVE

Туре	Spur gear d	Spur gear double reduction		
Lubrication	Splash type			
Total reduction	40.104			
Travel Speeds	Range	Forward	Reverse	
m/sec (km/h)	1st	0-1.03 (0-3.70)	0-1.25 (0-4.50)	
	2nd	0-1.89 (0-6.80)	0-2.30 (0-8.20)	
	3rd	0-3.28 (0-11.8)	0-3.81 (0-13.7)	



HYDRAULIC SYSTEM

HYDRAULIC	PUMP	
Туре	Gea	ar pump
Capacity	335	∮pm
Relief Pressu	ure 13.7	73 MPa (140 kg/cm²)
HYDRAULIC	CYLINDERS	
Type Do	uble acting pist	on type
Blade Lift	2 cylinders	
Blade Tilt	1 cylinder (In)	

STANDARD EQUIPMENT

Hydraulic Track Adjusters Air cleaner inner element lock Track roller guard (each side) Decelerator pedal 7 roller track frame Lower guard (3 pieces) Fixed type draw bar Joystick for work attachment Adequate lighting system Front pull hook In-line radiator **Toolkit** Audio visual backup alarm Lighting system (including 4 front and 1 rear lights) Safety lock for blade lever Straight Tilt Blade Hex. ROPS-FOPS cabin

METERS AND GAUGES

(Out) Ø 225 mm x 500 mm (Bore x stroke)

Engine Oil Pressure **Engine Water Temperature** Torque converter oil temperature Engine tacho meter, hour meter Volt meter Transmission Oil Pressure Fuel Level Engine oil temperature

WARNING INDICATORS Engine Oil filter Clog

Battery Charging (indicator only) Engine oil pressure Torque converter oil temperature Engine coolant level Engine coolant temperature Engine oil temperature Dust Indicator (mechanical on engine) Seat belt Indicator Engine Auto shut off for low engine

oil pressure and high water temperature abnormalities

OPTIONAL ATTACHMENTS / SYSTEMS

Semi-U Blade U Blade Angle Blade Coal Blade Giant Ripper Pin-puller equipment (for Giant ripper) Track shoe of 610mm Track shoe of 660mm Rear vision system

Pusher plate for straight tilt dozer Scoria Disposal Multi Shank Ripper Rake dozer Auto Lubrication System Fast fill fuel System Warning System for Operator's Fatigue. Automatic temperature control unit for AC Auto fire detection & suppression system AC with Heater & Defroster



Туре	Wet, Multiple disc hydraulically actuated and require no adjustment
Min turning radius	3.8 m
Steering Control	Hydraulic through linkages (Joy stick as optional)



Suspension	Oscillation type equalizer bar
Track frame	Box section High tensile strength steel construction
Track Pitch	2140 mm
Track Roller	7 No. Each side
Carrier Rollers	2 No. Each side
Track Shoes	41 No. Each side
Grouser Height	80 mm
Shoe type	Single Grouser
Shoe Width	560mm
Ground Pressure	84.13kPa (0.86kg/cm²) - Bare Tractor
Ground contact area	3.528m²



Engine	Double element dry type with pre-cleaner & automatic dust ejector for intake air. Cartridge type filter for oil & fuel.
Transmission	Magnetic oil strainer and pressure line filters.
Steering & brake	Magnetic oil strainer and pressure line filters.
Hydraulic System	Magnetic iron particles separator & return line filters. Pilot filter with cleanable element.



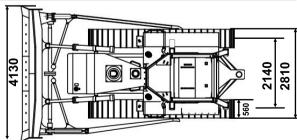
Operating Mass	39105kg
(Standard equipment with straight tilt dozer)	
Shipping Mass	30525ka

(Basic tractor with lubricants, Hydraulic system, cooling system and 10% of fuel tank capacity)



DOZER ATTACHMENT

Dozer type	Straight	Angle	Semi-U	U	Coal
Overall length with Dozer	6555	6630	6560	6970	7015
Blade Length x	4130x	4850x	4130x	4225x	5260x
Height	1590	1140	1790	1590	1795
Max. Lift above ground	1560	1475	1560	1560	1625
Max. Drop Below ground	560	625	560	560	545
Max. Tilt Adjust	1000	400	1000	1020	-
Blade Capacity (Cum)	7.9	4.2	9.7	10.1	17.4
Addl. Gr. Pressure Kpa	18.15	15.20	18.54	20.11	17.66
(Kg/cm	²) (0.185)	(0.155)	(0.189)	(0.205)	(0.180)
Mass (kg) Dozer Eqpt.	5740	4800	5930	6480	5730
Mass (kg) Hyd.Control un	it 760	700	760	760	770



Ground Clearance: 500mm

SYSTEM FLUID CAPACITY

System	Specific amount (ltr.)	Refill capacity(ltr.)
Cooling System	165	
Fuel tank	590	
Engine Oil Pan	58	43
Transmission, Bevel Gea		40-
Torque Converter & Stee	ering 185	135
Final Drive (each side)	55	55
Hydraulic oil	295	185



Туре	Wet, Contracting band	
Actuation Type	Foot operated Mechanical linkage assited by hydraulic booster for light touch and easy actuation. Brakes and steering clutches are hydraulically interconnected for easy steering	
Parking Brake	Hand operated with mechanical linkage	



Hexagonal shaped, ergonomically designed ROPS-FOPS cabin provides excellent visibility and operator comfort.

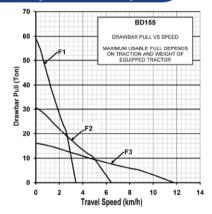


INSTRUMENTATION

LCS based centralized monitority system within the operator's cabin has in-built diagnostics which allow fast daily checks and also keeps the operator constantly informed of any abnormality during operation. All important equipment parameters and warning indicators are displayed in the LCS display unit. The display unit is suitable for day and night visibility.

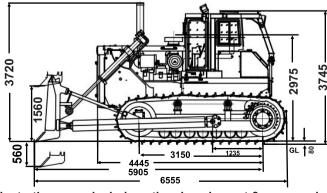


Drawbar pull Travel Speed



TRAVEL SPEED





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



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Crawler Dozers From BEML : | BD50 | BD65-1 | BD80 | BD85 | BD155 | BD355 | BD475