



TECHNICAL DATA

BEML BD355 CRAWLER DOZER

- Environmental friendly BEML BS6D170-1
- Power shift Transmission
- Operator Comfort with Arm Chair steering
- Pilot Operated Hydraulic System
- Wet Multiple disc steering clutches and brakes
- Durable work attachment
- Segmented sprockets
- Grooved type Floating Seals
- Reduced vibration and noise levels
- Pilot operated Hydraulic System
- Hexagonal Cabin for better visibility

Flywheel horsepower (net) : 310 kW (416HP) @ 2000 rpm
Operating mass : 43990 kg (with Semi-U dozer)

BEML BD355

CRAWLER DOZER

Salient Features

- **BEML BS6D170-1 Diesel Engine :**
Features a generous power to weight ratio for dynamic dozing performance.
- **Powershift Transmission :**
Smooth and responsive gear shifts with single-lever for instant speed and directional changes.
- **Operator Comfort :**
Conveniently located armchair steering control for enhanced 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.
- **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.
- **Segmented sprockets :**
Bolt-on type segmented sprocket permits quick on site replacement. Special grooved type floating seals and unique dust seals provide extended under-carriage life.
- **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.
- **Reduced vibration and noise levels :** Radiator, fuel tank, floor frame, Engine and cabin are mounted on anti-vibration rubber cushions to isolate vibration and reduce noise levels.

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

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CRAWLER DOZER

Accessories & Dimensions

STANDARD ACCESSORIES

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
Tool kit
Audio visual backup alarm
Lighting system (including 4 front and 1 rear lights)
Safety lock for blade lever
Semi-U Blade
Hex. Cabin

Meters and gauges
Engine oil Pressure
Engine water temperature
Torque converter oil temperature
Engine tachohour meter
Voltmeter
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
Engine Auto shut off for low engine oil pressure and high water temperature abnormalities

OPTIONAL ATTACHMENTS

AC with heater
ROPS/FOPS guard
Semi-U Blade
U-Blade
Angle Blade
Coal Blade
Gaint Ripper
Pin-puller equipment (for gaint ripper)

Pusher plate for straight tilt dozer
Towing winch
Scoria Disposal
Multi shank Ripper
Rake Dozer
Auto Lubrication system
Auto fire suppression system
Automatic temperature control unit for AC

Electronic engine is also available

Electronic transmission with single joystick control for steering and Transmission is also available.

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CRAWLER DOZER

Technical Specifications

ENGINE

Make _____ BEML
Model _____ BS6D170-1
Type _____ 6 inline, Diesel 4 stroke, water cooled, turbo charged, direct injection
Flywheel power** 310 kW (416 hp) @ 2000 rpm
Max Torque _____ 1780 N-m (181.5 kg-m)@1400 rpm
Cylinders _____ 6, inline

Bore x Stroke _____ Ø170x170mm
Displacement _____ 23.15L (0.02315m³)
Electricals
Alternator _____ 24V, 100 A / 140 A
Starting motor _____ 24V, 9kW
Battery _____ 2 x 12V, 200 Ah

TRANSMISSION

Torque converter
Model _____ TCS-46-1A
Type _____ 3 element, Single Stage, Single phase,
Stall Ratio _____ 2.6

Transmission
Type _____ 4F/4R, Powershift Transmission

FINAL DRIVE

Type _____ Spur and planetary gear, double reduction
Lubrication _____ Splash Type
Total Reduction _____ 33.74

Travel speed _____ m/sec (km/h)

Range	Forward	Reverse
1 st _____	0-0.92 (0-3.30)	0-0.89 (0-3.20)
2 nd _____	0-1.42 (0-5.10)	0-1.39 (0-5.00)
3 rd _____	0-2.36 (0-8.50)	0.2.35 (0-8.47)
4 th _____	0-3.53 (0-12.7)	0-3.50 (0-12.6)

HYDRAULIC SYSTEM

Hydraulic pump
Type _____ Gear pump
Capacity _____ 419.3 l / min.
Relief pressure _____ 13.73 MPa (140 kg/cm²)
Hydraulic Cylinders
Type _____ Double acting piston type
Blade Lift _____ 2 cylinders
Bore x Stroke (mm) _____ Ø160 mm x 1440 mm

Blade Tilt _____ 1 cylinder
Bore x Stroke _____ Ø250 mm x 180 mm
For optional ripper attachment
Ripper lift _____ 2 Cylinders
Bore x Stroke _____ Ø225 mm x 600 mm
Ripper tilt _____ 2 Cylinders
Bore x Stroke _____ Ø225 mm x 500 mm

** Flywheel power is the rated BHP less the average accessory losses. Accessories included are fan, alternator and hydraulic, pump at no load.

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CRAWLER DOZER

Technical Specifications

STEERING

Type _____ Wet, multiple disc steering clutches are hydraulically actuated and require no adjustment

Min. Turning Radius _ 3.7 m

FILTRATION

Engine _____ Replaceable cartridge type filter for lubrication as well as for fuel line.

Transmission _____ One magnetic oil strainer and one replaceable element pressure line filter.

Steering & Brake _____ Magnetic oil strainer is common to transmission, steering & braking system. Separate replaceable element type pressure line filters are provided.

Hydraulic System _____ Magnetic plug & replaceable element type filter is provided. Pilot filter with cleanable element.

UNDER CARRIAGE

Suspension _____ Oscillation type equalizer bar

Track Frame _____ Box section, high tensile strength steel construction.

Track Pitch _____ 2260 mm

Track Rollers _____ 7 no. each side

Carrier Rollers _____ 2 no. each side

Track Shoes _____ 39 no. each side

Grouser Height _____ 88 mm

Shoe width _____ 610 mm (standard)

Ground Pressure _____ 82.58 kPa (0.84 kg/cm²)

Ground contact area _ 4.099 m²

MASS (approximate)

Operating Mass _____ 43990 kg
(Standard equipment with Semi-U dozer)

Shipping Mass _____ 34520 kg
(Basic tractor with lubricants, Hydraulic system, cooling system and 10% of fuel tank capacity)

BRAKE

Type _____ Wet, contracting band

Parking Brake _____ Hand operated with mechanical linkages.

Control _____ Foot operated steering brakes with hydraulic booster for light-touch actuation and long service life. Brakes and steering clutches are interconnected for easy steering.

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CRAWLER DOZER

Technical Specifications

DOZER ATTACHMENT

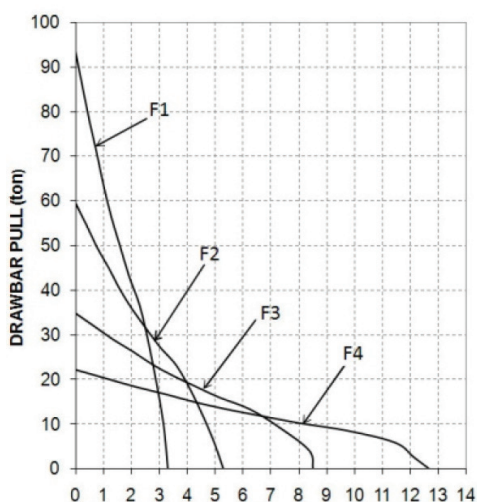
Dozer type	Straight tilt	Angle	Semi-U	U	Coal
Overall length with dozer (mm)	7120	7215	7163	7600	7540
Blade Length x Height (mm)	4315 x 1875	5230 x 1350	4315 x 1955	4715 x 1875	5530 x 2125
Max. Lift above ground (mm)	1545	1640	1545	1545	1565
Max. drop below ground (mm)	700	720	700	700	650
Max. tilt adjustment (mm)	1000	550	1000	1000	*
Blade Capacity (m ³)	11.6	5.9	13.0	15.6	24.5
Additional ground pressure kPa (kg/cm ²)	20.6 (0.21)	19.6 (0.20)	20.6 (0.21)	23.54 (0.24)	19.62 (0.20)
Mass in kg					
Dozer Attachment	7830	7200	8590	8830	7660
Hydraulic Control Unit	880	870	880	880	680

* Tilt Cylinder for coal dozer is optional

SYSTEM FLUID CAPACITY

System	Specific amount	Refill Capacity L	System	Specific amount	Refill Capacity L
Cooling System	180	-	Transmission, bevel gear torque converter & steering	230	190
Fuel Tank	760	-	Final Drive (each side)	68	68
Engine Lub Oil	58	43	Hydraulic System	280	142

DRAWBAR PULL Vs TRAVEL SPEED



Note : Usable pull will depend upon traction and weight of equipped tractor

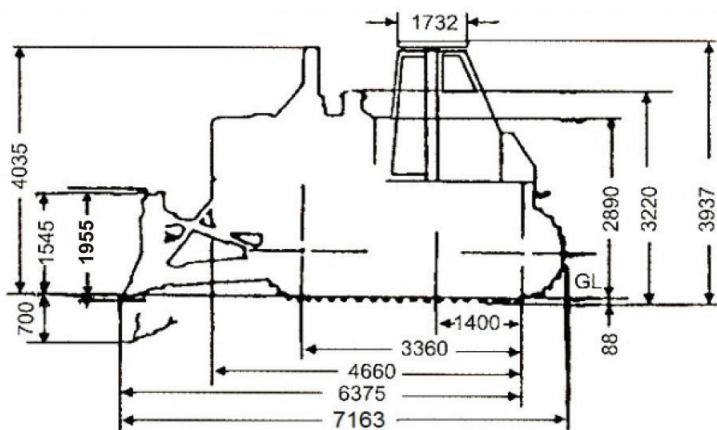
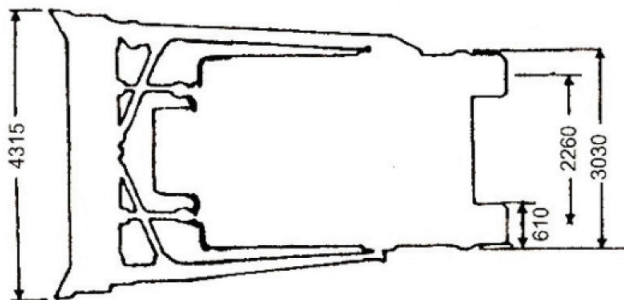
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Technical Specifications

DIMENSIONS (in mm)

Ground clearance _____ 575 mm



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