

BD30W-1

WHEEL DOZER



Salient Features :

- Productivity
- Reliability
- Manoeuverability
- Serviceability & Maintainability
- Comfort
- Electronic Monitoring System



BD30W-1

Blade Capacity	: 4.7 m ³
Operating Mass	: 30,000 kg
Fly Wheel Horse Power (net)	: 224 kW (300 fhp) @ 2100 rpm

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BD30W-1 WHEEL DOZER

Salient Features :

Productivity:

High power engine, rugged Electric Shift Transmission featuring 3 forward and 3 reverse speeds, heavy duty planetary axle for high tractive effort and gradeability at all operating conditions.

Reliability:

Attention free wet multiple disc brakes for front and rear axles, and box type chassis for uniform stress distribution. The cutting edges, end bits, pins and bushings are highly reliable and durable.

Manoeuvrability:

Articulation with power steering, optimum combination of travel speed, turning radius and wheel base ensures very high level of manoeuvrability.

Serviceability & Maintainability:

Electronic display and monitoring system helps to prevent minor problems from becoming major ones.

Comfort:

Roomy walk-through cab, with ergonomically arranged manually operated control lever for speeds in forward / reverse selections, cushioned suspension adjustable seat and excellent visibility assures easy dozing and leveling.

Electronic Monitoring System:

The EMS is designed to monitor the health of the equipment and to provide an audio visual warning to prevent equipment breakdown through early detection. The entire operator controls, warning displays and control switches are fitted on a FRP dashboard with a high degree of ergonomics and comfort. Besides gauge and electronic hour meter, other warning parameters are monitored to provide audio-visual signal. Also a "SYSTEM CHECK" facility stimulates all faults together to check proper functioning of the electronic unit and warning lamp assemblies.



ENGINE

Make	BEML
Model	BS6D140-1
Type	Diesel, 4 cycle, Water cooled, Direct injection
Aspiration	Turbo charged
Net Power	224 kW (300 fhp)@2100 rpm(As per ISO:9249)
Maximum Torque	1247.8 Nm (127.2 kgm) @ 1400 rpm
No. of cylinders	6
Bore x Stroke	∅ 140 x 165 mm
Piston Displacement	15.24 ℓ
Compression ratio	15.0:1
Governor	Mechanical
Lubrication system	Forced lubrication, gear pump
Air cleaner	Dry type
Electricals	
Alternator	24 V / 100 A
Starting motor	24 V / 7.5 kW
Battery	2 x 12 V / 200 Ah

TRANSMISSION

TORQUE CONVERTER			
Type	3 element, single stage single phase		
Transmission			
Type	Full power shift planetary gear electro hydraulic control valve		
Gear	3 F / 3R		
Stall torque ratio	3.23 : 1		
Max. Drawbar pull	22,000 kg		
Travel speed (km/h)			
Gear	1st	2nd	3rd
Forward	6.67	12.9	24.75
Reverse	6.4	12.57	23.72

DRIVE & AXLES

Drive System	Four wheel drive
Front & rear axle	Full floating type
Reduction & Differential gear	Spiral bevel gear reduction
Final Drive	Planetary gear
Oscillating angle	15° both sides (total 30°)

FILTRATION

Engine fuel & oil	Full flow spin-on type
Air	Double element, dry type with pre-cleaner and auto dust ejector
Transmission	Pressure line filter
Hydraulic steering & Braking	Return line filter

STANDARD ACCESSORIES

Engine : Starter , Alternator
Lights : Head lights ,Rear working lights, Turn indicators (front & rear) ,Stop & tail lamp, Back-up lamp
Gauges : Fuel level, Engine oil pressure, Coolant temperature, T/M oil temperature, RPM Meter, Trans oil pressure, Ammeter, Air pressure, Hour meter
Pilot Lamps : High beam , Turn indicators
Caution Lamps : Engine oil pressure ,Transmission oil pressure, Air Pressure, Coolant temperature, Parking brake applied, Battery charging .
Others : Wind shield wiper & washer, Tool kit, Dust indicator, Parking and emergency brake, Tyres 29.5 x 29-28PR(L-3), Straight blade (4.7 m²), Fire Extinguisher-6 kg, Back-up alarm, Sight gauge, Seat belt, Floor mat, Sun visor, Fan, Rear view mirror, Roof lamp, ROPS & FOPS Cabin.

OPTIONAL ACCESSORIES

ROPS Canopy, Air conditioners, Heater, Defroster, Fire Extinguisher- 2kg, Canopy, Tyre inflation kit, Pre- heater, 5.9 m³ Blade, Auto Fire Suppression System



HYDRAULIC SYSTEM

Hydraulic Pump

Main pump	Gear Pump
Capacity	235 l / min @ 2100 rpm
Relief Pressure	13.73 MPa (140 kg/cm ²)

Cylinders :

Lift Cylinder	Two, Double acting type
Bore x Stroke	∅ 140 x 990 mm
Tilt	One, Double acting type
Bore & Stroke	∅ 225 x 160 mm



STEERING

Type	Center pivot frame articulation
Steering	Full hydraulic power steering system mechanism independent of engine speed

Relief pressure	17.2 MPa (175 kg / cm ²)
Steering angle	Wide articulation of 30° on each side
Turning radius	9400 mm (outer tip blade)
Steering cylinders	2, double acting type
Bore x Stroke	∅ 110 x 547.5 mm



BRAKES

Service Brakes	4 wheel, enclosed, air over hydraulically actuated, outboard mounted, wet multiple disc brakes, independent front & rear brakes.
Parking brake	Dry disc type applied on intermediate drive shaft
Emergency brake	Automatically actuates the parking brake when the air pressure goes below the rated value

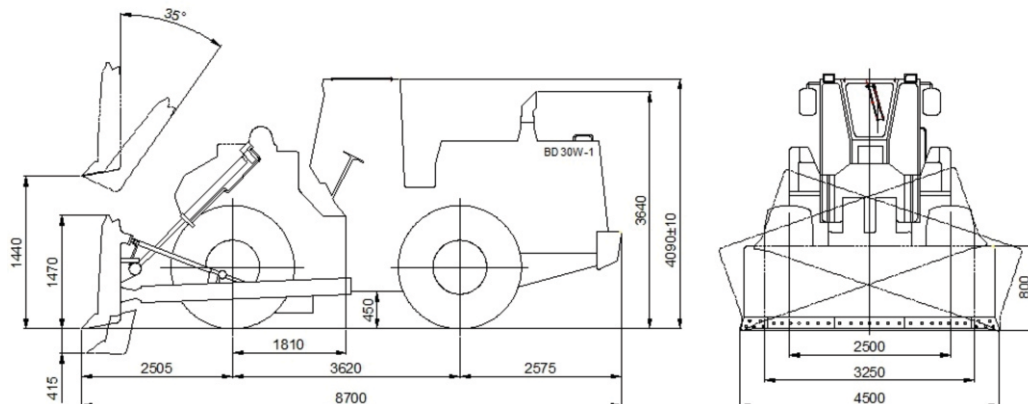


COOLANT & LUBRICANTS CAPACITY (Refill)

System	Capacity (in l)
Engine oil pan	32
Fuel Tank	445
Cooling System	80
Hydraulic System	181
Front Axle	59
Rear Axle	59
Brake oil tank	2.4
Transmission & torque converter	62



DIMENSIONS



BLADE

A large capacity 4.7 m³ blade results in higher and fast production while dozing stock piled material and general earth moving. The complete unit consists of blade, push arms, trunion mounting, reversible cutting edges and hydraulic lift and tilt cylinders. Mono lever at operator's right to control dozer, lift & tilt.

Blade Controls :

Minimum effort is required to operator the blade control mono-lever assuring responsive smooth blade action.

Control Positions :

Blade lift	Raise, hold, lower and float
Blade tilt	Tilt left, hold, tilt right



OPERATING PARAMETERS

Blade type	Straight
Blade Capacity	4.7 m ³
Blade width (over end bits)	4500 mm
Blade height	1470 mm
Max. lift above ground	1440 mm
Max depth of cut	415 mm
Max. Tilt adjustment	800 mm
Min ground clearance	450 mm



OPERATING MASS

Operating mass : 30,000 kg
(Including rated capacity of lubricant, coolant, fuel, 29.5 x 29-28 PR, 4.7 m³ capacity blade and the standard equipment)



CABIN

Spacious ROPS cabin with ergonomically arranged manually operated control lever for speeds in forward / reverse selections, cushioned suspension adjustable seat and excellent visibility assures easy dozing and leveling.



TYRE

Front & Rear 29.5 x 29 - 28 PR (L-3)

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

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