

BD14W

WHEEL DOZER



Salient Features :

- Turbo charged sturdy engine
- Electronic Transmission
- Articulated Power steering
- Limited slip differential
- Center point articulation
- Greater drawbar pull



BD14W

Blade Capacity : 2.4m³

Flywheel Power (net) : 94kW(126 HP) @ 2000 r/min

Operating Mass : 15000 kg

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WHEEL DOZER

Salient Features :

Sturdy direct injection type, turbo charged BEML Diesel Engine for sustained power and fuel economy.

Articulated power steering for higher maneuverability and faster cycles.

Limited slip differential front and rear axles for positive traction while loading.

Rear axle oscillation offers stability to the machine on rough and uneven terrains.

Centre point articulation for safer steering operation. The rear wheels always track the front wheels.

Neutral starter switch in the circuit to avoid engine starting when transmission gear shift lever is not in neutral.

Greater drawbar pull and faster cycle time for higher production.



ENGINE

Make	BEML LTD.
Model	BS6D105-1
Type	Water cooled 4 cycle, over head valve, direct injection type, turbo charged diesel engine.
No. of Cylinders	6
Bore & Stroke	ø 105 x 125 mm
Displacement	6.5 l (6,499 cc)
HORSE POWER	
Rated BHP	110 kW (148 HP) @ 2000 rpm
Flywheel power	94 kW (126 HP) @ 2000 rpm
Maximum Torque	565 Nm (58 kgm) @ 1400 rpm
FUEL SYSTEM	
Type	BOSCH type, MICO FIP system
Governor	Mechanical, all speed control
LUBRICATION SYSTEM	
Method	Gear pump, forced lubrication
Cooler	Water cooled
ELECTRICALS	
Starting Method	Electric
Starting Motor	24V, 4.5kW
Alternator	24V, 45A
Battery	24V (2x12V), 150 Ah



TRANSMISSION

TORQUE CONVERTER	
Model	W340
Type	Hydrodynamic
Stall Ratio	3.095 : 1
Transmission	
Model	4WG190 ERGO POWER
Type	Rear mounted multi speed power shift electronic control transmission with four forward & three reverse speeds
Controls	Manual Range Selector



AXLES & FINAL DRIVE

Type	Front axle is fixed, and Rear axle oscillates up or down by 10°, (total 20°) for greater machine stability.
Final Drive	
Type	Four wheel drive, full floating with planetary reduction in each wheel.

Travel Speeds	
Forward km/h (m/s)	Reverse km/h (m/s)
1st 6.28 (1.74)	1st 6.61 (1.84)
2nd 11.66 (3.24)	2nd 12.24 (3.4)
3rd 21.43 (5.95)	3rd 22.34 (6.2)
4th 31.4 (8.72)	—

STANDARD ACCESSORIES

Ammeter, Engine oil pressure gauge, Water temperature gauge, Transmission oil temperature gauge, Engine hour meter, Horn, Starter key switch, Engine oil temperature gauge, Working and traveling lights, Foot Throttle, Fenders, Starting motor, Alternator, Regulator, Batteries, Canopy, Reverse light and alarm, Side indicator lamps, Fire extinguisher, Tool box, Brake and Tail lamp, Battery charging indicator, High beam indicator, Parking brake applied indicator, Low air pressure warning.

OPTIONAL EQUIPMENT

Steel cabin

Pre Heater

Tyre inflation kit



HYDRAULIC SYSTEM

Pump Type	Vane Pump
Capacity	176 litres/min @ 2000 rpm
Relief Pressure	13,73 MPa (140 kg/cm ²)
Control Valve Type	Double spool type
Positions	
Lift System	Raise, Hold, Lower and Float
Winch (Optional)	In, hold and out



FILTRATION

Engine	Replaceable micro paper element filter for lubrication as well as for fuel line is provided.
Transmission	Replaceable element type of filter is provided.
Hydraulic System	Magnetic plug and replaceable element type filter is provided.



COOLING SYSTEM

Radiator	Continuous finned flat tube de-aeration type tank
Pump	Centrifugal pump
Fan	Blower type
Air cleaner Type	Dry, 2-stage, horizontal
Air Compressor	
Capacity	160 CC



BRAKES

Service Brakes	Wet multiple disc type. Air over Hydraulic actuated.
Parking Brake	Disc type, spring applied and hydraulic released operating pressure @ 126 kg/cm ² .

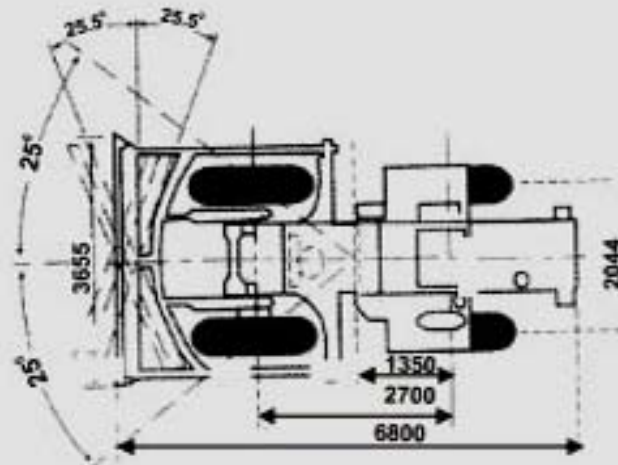
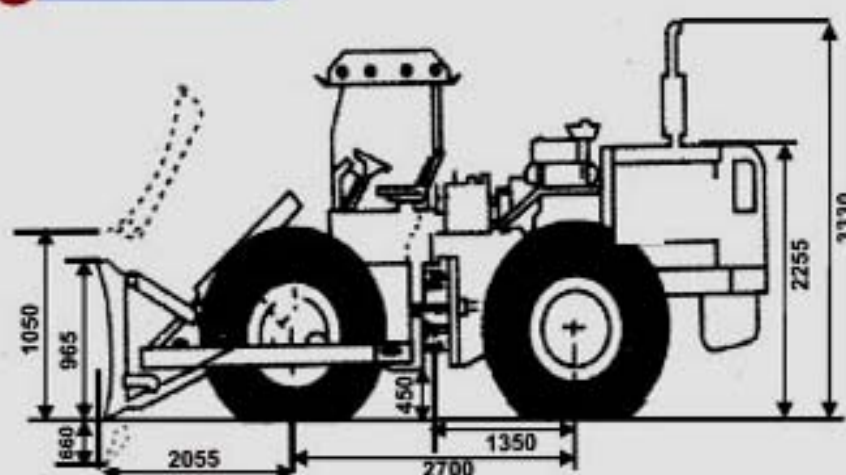


TYRES AND RIMS

Tyres	
Standard	18,00 x 25-24 PR, L-4 (Tubeless)
Optional	20,5 x 25-20 PR
	23,5 x 25-20 PR
Sand Tyres	21,0 x 25-15 PR
Rims	
Type	Flange type
Size	13,00 x 25
Max. gradeability	25% (~14°)



DIMENSIONS



SERVICE CAPACITIES

System	(litres)
Cooling system	45
Fuel tank	185
Crank case engine	25
Transmission (inclusive of drop box)	27
Front axle	35
Rear axle	35
Brake oil tank	2.8
Hydraulic tank	195



BLADE

Type	Angling & tilting
Mass (kg)	1645
Digging angle	55°
Blade angle	25.5°
Blade length x height (mm)	3655 x 965
Max. lift above ground (mm)	1050
Max. drop below ground (mm)	660
Max. tilting adjustment (mm)	400
Blade capacity	2.4m ³



OPERATING MASS

Operating mass	15,000 kg approx.
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STEERING SYSTEM

Type	Articulated, full power steering 25° on either side.
Steering Pump	
Type	Vane Pump
Flow	176 litres/min @ 2000 rpm
Relief Valve Setting Pressure	12.25 Mpa (125 kg/cm ²)
Turning Radius	7200 mm

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

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WHEEL DOZER

TECHNICAL SPECIFICATIONS

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A Govt. of India Miniratna Company Under Ministry of Defence

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