

BD14W WHEELDOZER

SALIENT FEATURES

- Sturdy, direct injection type, turbocharged Cummins India diesel engine for sustained power and fuel economy.
- Greater drawbar pull and faster cycle time for higher production.
- Limited slip differentials on both front & rear axles for positive traction while dozing.
- Rear axle oscillation for greater stability on rough and uneven terrains.
- Articulated power steering for higher manoeuvrability and faster cycles.
- Centre point articulation for safer steering operation since the rear wheels always track the front wheels.
- Neutral start switch in the circuit to avoid engine starting when gear shift is not in neutral.

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






Operating mass : 15000 kg

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BD14W WHEEL DOZER SPECIFICATIONS



 Engine		 Transmission			
Model	Cummins (India) NT-495-C (NT-180)			Troque Converter	
Type	water cooled, 4 cycle, overhead valve, direct injection type, turbo charged diesel engine.			Model	TC270
No. of cylinders	4			Type	Single stage, single phase, 3 - element
Bore x Stroke	130.2 x 152.4mm			Stall ratio	3.095:1
Displacement	8.12 litres			Transmission	
Rated power	108kW (145 HP)@ 2000 rpm			Model	Clark 13MHR 28422-4.
Fly power(net) power	94 kW (126 HP)@ 2000 rpm			Type	Counter shaft full power shift with 4 forward, 4 reverse speeds.
Maxmium torque	565 Nm (58 kgfm) @ 1400 rpm			 Final Drive & Axles	
Fuel System				Axle Type	Front axle fixed, rear axle oscillates up or down 12 degrees, total 24 degrees for greater machine stability.
Type	Cummins PT fuel system.				
Governor	Mechanical, all speed control			Final Drive Type	Four wheel drive full floating with planetary reduction in each wheel.
Lubrication system					
Method	gear pump, forced lubrication			Travel speeds km/h(m/sec)	
Cooler	Water cooled			Range	Forward / Reverse
Cooling system					km / h m/sec
Radiator	Continuous finned flat tube de-aeration type top tank.			1st	6.0 1.66
Fan	Pusher type			2nd	12.3 3.42
Air cleaner				3rd	20.7 5.75
Type	Dry, 2-stage horizontal type			4th	31.6 8.77
 Steering		 Brake			
Type	Articulated full power steering 30 degree on each side.				
Steering pump				Service brakes	Wet multiple disc type
Type	Gear pump				
Flow	130 litres / min @ 2000 r / min. .			Parking cum emergency brake	Shoe type spring applied and air released
Relief Valve					
Setting pressure	12.26 MPa(125 kgf/cm ²). .				

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 Hydraulic System		 Blade	
Main pump	Gear pump 176 l/ min @ 2000 r/min	Type	Anguling & tilting
Control valve (Dozer & Winch)	Double spool type	Mass	1645kg
Positions		Digging angle	55°
		Blade angle	22.5°
Blade	Raise, hold, lower & float.	Blade length X height	3540mm x 980mm
Winch	in, hold & out.	Max. lift above ground	1050mm.
 Refill Capacity		Max. drop below ground	660mm
		Max. tilting adjustment	400mm
System	Litres	 Electrical	
Cooling system	45	Starting method	Electric
Fuel Tank	185	Alternator	24V, 30A
Crank case	18	Starting motor	24V, 5kW
Transmission(inclusive of drop box)	25	Battery	24V (2 x 12V) 150 Ah
Front axle	33	 Tyres & Rims	
Rear axle	28		
Brake oil tank	2.8		
Hydraulic tank	195		
 Filtration		Tyres	
Engine	Replaceable micro paper element filter for lubrication as well as for fuel line is provided	Standard	18.00 x 25 - 24 PR L - 3 (Tube less
Transmission	Replaceable element type of filter is provided	Optional	1) 20.50 x 25 - 20 PR 2) 23.5 x 25 - 20 PR
Steering system	One Magnetic oil strainer and a filter with replaceable element is provided	Sand tyres	21.0 x 25 - 15 PR
Hydraulic System	Magnetic plug & replaceable element type filter is provided.	Rims	
		Type	Flange type
		Size	13.00 x 25
		 Operating Mass (approximate)	
		Operating mass	15000 kg
		Max. Rimpull	100062N

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DIMENSIONS (mm)	
Basic machine length	6425(8675 with trench digger & Winch)
Width	2500
Height over exhaust	3330 (Max. height 5840 with trench digger.)
Ground clearance	400
Track gauge	2044
Wheel base	2700
Min. turning radius	6000



STANDARD ACCESSORIES

Ammeter, Engine oil pressure gauge, Water temperature gauge, Transmission oil temperature gauge, Transmission oil pressure gauge, Tachohour meter, Air pressure gauge start switch, Horn, Key switch, Engine oil temperature gauge, Working and travelling lights, Foot Throttle, Fenders, Starting motor, Alternator, Regulator, Batteries, Canopy, Backup light & alarm, Turn signal indicator lamps, Fire extinguisher, Tool box, Cold starting kit, Brake and Tail lamp, Battery charging indicator, High-beam indicator, Parking brake applied indicator, Low air pressure warning.

OPTIONAL ACCESSORIES

Cabin

OPTIONAL ATTACHMENTS

Towing winch

Steel rope length	50m
Traction force	8000kg
Traction speed	10.5m / min (1st layer)
Winch length	900mm
Width	700mm
Height	825mm



Crane Hook

Lifting capacity	2 tonne
Max. lifting height from the ground level	6150mm
Swing arc(Arm turning angles)	180 degrees



Note :

- 1) Materials & Specifications are subject to change without notice.
- 2) Illustrations may include optional equipment and accessories and may not include all standard accessories.
- 3) All the specifications meet relevant ISO standard.