

WJD-3B Battery Drive Underground Wheel Loader



Main features: Central articulated chassis with box type boom, with rear set cabin, and FOPs & ROPs standard Roof. Hardox front and side blade bucket. Main transfer system with DANA brand.

➤ **Power:Battery**

Brand: LiFePO4

Volume: 173 Ah

Total Power installed: 200.54 kWh

Electric motor power: 80/150KW

Hydraulic drive motor: 70/135KW

Protection class: IP68

Battery core recycling life: 3000 charging times

Heating method: Inserted heating film

Cooling method: air-cooling

Cooling motor power: 8KW

Full charge time: 45~60 minutes

Full charge electricity consumption: 220.59 kW-h

➤ **Power Transfer:**

Transmission: DANA R32000 Series 4 speed transmission

Drive axle: DANA 16D spring brake hydraulic release with forced cooling;

Wet multi-discs

Tires: 17.5-25-20 smooth surface cut-resistance mining tires

Inflation pressure: 575 kPa

Rim size: 14.00

➤ **Brake system**

Service brake: spring brake hydraulic release

Parking brake: spring brake hydraulic release

➤ **Steering system**

Type: Pilot valve control multiple directional valve.

Model: BYZ₁-320

Steering cylinder: 2

Steering angle: 40° R/L

➤ **Service hydraulic system**

Type: Pilot valve control multiple directional valve

Gear pump: Parker or other imported brands

Other main hydraulic components using imported brands like Mico, Permco, Sauer Danfoss, etc.

➤ **Electric system**

Mining safety electric cabinet with high current, low voltage, leakage and cut protection.

PLC system make the operation reliable and easy to target failures.

➤ **Liquid volume**

Transmission oil: 50 Liter 6#, 8# hydraulic power oil

Hydraulic oil tank: 330 Liter 46# or 68# wear resistance hydraulic oil

Drive axle: Main shell 29.8 Liter for each axle;

Wheel size reducer 4.7 Liter on each side

Lubrication oil: GL-4 85W/90 heavy duty gear oil

Specifications:

1. Rated bucket volume: 3 cubic meter
2. Rated loading capacity: 6500 KGS
3. Maximum traction force: 180 KN
4. Maximum shovel force: 120 KN
5. Travelling speed with full load on none slope road: 0 ~ 18±2 km/h
6. Turning Radius: 3300mm Inner, 6100 mm Outer
7. Maximum off load height (Bucket dumping): 2851mm
8. Off load distance: 1650±150mm
9. Off load angle: 40°

10. Ground clearance: 330 mm

11. Timing:

Hoist: 6 sec

Descent: 4.5 sec

Dumping: 4 sec.

12. Maximum grade ability (Full load): 14°

13. Machine weight: 17.5 Metric Ton

14. External dimensions when transport: 9150mm*2150mm*1726mm/2350mm

15. Rear axle swinging angle: $\pm 6^\circ$

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