

WJD-1B (1 cubic meter) UG Wheel Loader (BEV)



KAMACH MINING developed this battery drive underground wheel loader, is more advanced than the electric loader with cables, and it represents the highest technology globally.

1 cubic meter battery drive underground wheel loader with 2 metric ton rated loading capacity, may be upgraded to 3 metric ton loading capacity. Pure battery drive, strong force, quick reaction, zero emission, low heat output, low noises, are the advantage of battery drive loaders, it highly deduces the ventilation requirement and cost, help you to realize cleaner, safer, and quieter tunnel working environment.

Pure Battery Dive.

- Stable Lithium Iron Phosphate (LiFePo4) battery, 90 kwh or optional 120 kwh electricity volume, may support the loaders to work 4~6 hours continuously.
- May achieve 1 hour fast charging, 20 minutes fast battery replacing.

Safe, and operator-friendly design

- Battery system has 3 layer protection, smoke alarm, and extinguishing system, to make the vehicle safer and more reliable.
- Forced water-cooling system, to keep the battery stable.
- Operator-friendly design instrument panel, and control system, easier for the operation.

Economic, High Efficiency

- Brake energy recycling technology, highly deduces the energy waste, and improves the continuous working period.
- Maximumly match the diesel drive loaders components, easier for maintenance.

1. Technical Specifications

Machine length	6380mm/6070mm
Machine width	1360mm
Machine height	2040mm
Tread	2220mm
Wheel base	1000mm
Ground clearance	210mm
Steering radius (Inner/External)	2480mm/4400mm
Bucket volume (SAE)	1m ³
Maximum lifting height	3180mm
Maximum unload height	1170mm
Maximum unload angle	37°
Departure angle	14°
Time (Load+lift+unload)	10.5s

2. Machine weight

Empty weight	7500kg
Rated loading capacity	2000kg
Maximum weight full load	9500kg

3. Travelling

Forward/Reverse	Gear 1 /2	8km/h 15km/h
Maximum speed		21km/h
Full load at 14% slope		17km/h
Full load at 25% slope		10km/h

4. Loader parameter

Traction force (Continuous /Peak)	35kN/75kN
Shovel force	48kN
Grade ability (Continuous)	25%

5. Drive motor

Type	Permanent magnet synchronous motor
Rated/Peak power output	75kW/135kW
Rated/Peak torque output	750Nm/1700Nm

IP Protection class	IP67
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6. Pump motor

Travelling method	Permanent magnet synchronous motor
Continuous traction force	60kW/120kW
Rated/Peak torque output	400Nm/800Nm
Protection class	IP67

7. Battery

Battery power installed	90kWh (90.2 kWh ~105.3 kWh optional)
Voltage	550 VDC
IP Protection class	IP67
Power pack weight	1200kg

8. Tires

Tire size	10.00-20
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9. Bucket

Volume (SAE)	1 m ³
Blade	#500 wear resistance

Appendix 2

WJD-1B battery drive loader packing list

- 1) WJD-1B Nude packing× 1 set
- 2) Tools with delivery ×1 set
- 3) Operator's manual ×1 set
- 4) Parts catalogue ×1 set

Appendix 3

Options:

- 1) Quick charger 60KW:
- 2) Travel aid system
- 3) Quick release system

Dimensions:

