

LOVOL
HYBRID (SHEV)

DUMP MINING TRUCK

MAKE WORLD BETTER

WE AIM AT CUSTOMERS' SATISFACTION



LOVOL

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Curb weight (kg):50600

Max. gradeability (%):30

Engine Power (kW):426

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PRODUCT FEATURES

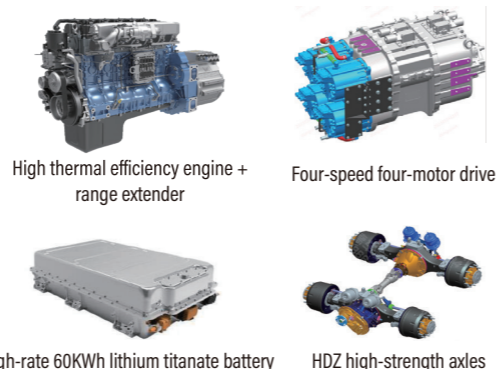
130 Ton Fuel Range-Extended Mining Truck

- **Weichai Premium Powertrain:** Equipped with Weichai Power WP14T + Weichai New Energy 430KW alternator + 4 drive motors 4-speed gearbox (520kw) + 60 KWh power battery, the shifting power is uninterrupted, and the whole vehicle control is independently developed.
- **Strongest Flexible Main and Auxiliary Frame Structure:** Double-layer beam structure, frame size 1300×450×130 (12+12), high bending and torsional resistance, wider frame for more stable driving and faster unloading.
- **Original Front Suspension Technology:** The front suspension adopts a five-link non-independent hydro-pneumatic suspension, which is more reliable, durable, has a longer service life, and offers better comfort.
- **Revolutionary Rear Suspension:** Integrated maintenance-free balance shaft with safety rod + pin structure thrust rod, completely solving the maintenance of the axle head and the problem of thrust rod bolt fracture.
- **Extra-Large Capacity:** The cargo box volume reaches 50m³, providing high transportation efficiency.
- **Comfortable Driving and Riding Experience:** Brand-new semi-floating cab design, noise reduction and sound insulation, space utilization 30% higher than competitors.
- **Transverse Full Hydraulic Steering System:** Reliable performance, lighter double steering, and better handling.
- **Brand-New High-Power Mechanical Air Conditioning:** Cooling power of 4800w, tested in the high temperatures of Hami, Xinjiang region, ensuring better reliability.
- **German VOSS Braking System + Military Aviation Quick-Connect Electrical System, providing better overall vehicle safety.**

PRODUCT FEATURES

Powertrain

- WP14T range extender assembly, high-elasticity coupling, dual-input dual-output single main drive controller, simplified control.
- Four-motor four-speed gearbox, uninterrupted power during shifting, achieves motor torque decoupling to better utilize the motor's optimal efficiency range.
- 30-ton front axle, 50-ton drive axle (ratio: 18.722), proven primary reduction, providing the mining truck with highly reliable transmission performance.
- Fuel range-extended hybrid, highly efficient and energy-saving, low operational costs, transportation efficiency increased by 15.4%, operational cost savings of 15%!



Cab



- **Robust Framework:** Mine-specific cab framework and skin, with a 30% increase in space utilization compared to competitors, spacious and comfortable.
- **More Comfortable:** The sound insulation noise reduction performance reaches industry benchmark levels (noise test sound insulation effect is comparable to coach bus standards, with side ear noise at 74dB at the highest gear of 40km/h).
- **High Seal:** The vehicle doors use an integral double-seal structure, and stringent smoke test evaluations effectively prevent dust entry, offering superior sealing effects!

VEHICLE PARAMETER

Gross vehicle weight (kg)	130000
Curb weight (kg)	50600
Payload mass (kg)	90000
Overall dimensions (L×W×H) (mm)	10650 × 4000 × 4450
Wheelbase (mm)	4600+1840
Tread (mm)	3100/2850/2850
Max. gradeability (%)	30
Min. turning diameter (m)	30
Min. ground clearance (mm)	410
Max. vehicle speed (km/h)	45

AXLE LOAD

Laden (t)	30/50/50
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ENGINE

Model	WP14TG765E304
Power (kW)	426
Speed (r/min)	1900
Torque (N*m)	2700/ (1200-1400)

CLUTCH

Model	/
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TRANSMISSION

Model	4TR180
Gear position	15.491/10.812/7.594/4.073
Max. input torque (N.m)	1840

DRIVE AXLE

Type	Central, hub planetary two-stage reduction, with inter-axle differential lock
Overall gear ratio	18.722
Rated axle load (kg)	50000
Brake type	Cam drum brake

FRONT AXLE

Rated axle load (kg)	30000
Brake type	Cam Drum Brake

AIR FILTER ASSEMBLY

Model	Multi-stage dust air filter
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WHEEL

Tyre Size	16.00R29 ★★★
Rim Size	11.5-29

RADIATOR

Structure	Plate-fin Radiator
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FUEL SYSTEM

Volume (L)	700L fuel tank
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STEERING SYSTEM

Booster type	Full Hydraulic Steering
System pressure(Mpa)	17
Flow(L/min)	40

BRAKING SYSTEM

Service brake	Double-circuit drum type air brake
Parking brake	Spring energy-storage air-break braking with emergency braking
Auxiliary brake	Engine exhaust braking+WEVB
System pressure (bar)	11
Parking slope (%)	30 (uphill)/20 (downhill)

SUSPENSION

Front suspension	Five-thrust rod hydro-pneumatic suspension
Thickness / width / number of leaf springs	180/150-220
Rear suspension	leaf spring balanced suspension

Thickness / width / number of leaf springs	34/100/15
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DUMPING LIFT MECHANISM

Type	Front lift-214
Rated pressure (MPa)	20
Max. dumping angle (°)	46

DRIVER'S CABIN

Type	Left hand drive, semi-floating
Shock-absorbing seat	Upward/downward, forward/rearward adjustable, backrest angle adjustable

FRAME

Type	High-strength steel flexible frame (1300×450×130 (12+12))
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ELECTRICAL SYSTEM

Power supply	24V single wire system, negative earth
Starting method	Key switch

CARGO COMPARTMENT

L×W×H(mm)	7200*3700*1700
Carriage box volume capacity (m3) (Flat carriage)	45
Plate thickness	DH (NM400) 、B10 (T700) D:Bottom plate thickness H:Back door thickness B:Front plate and side plate thickness