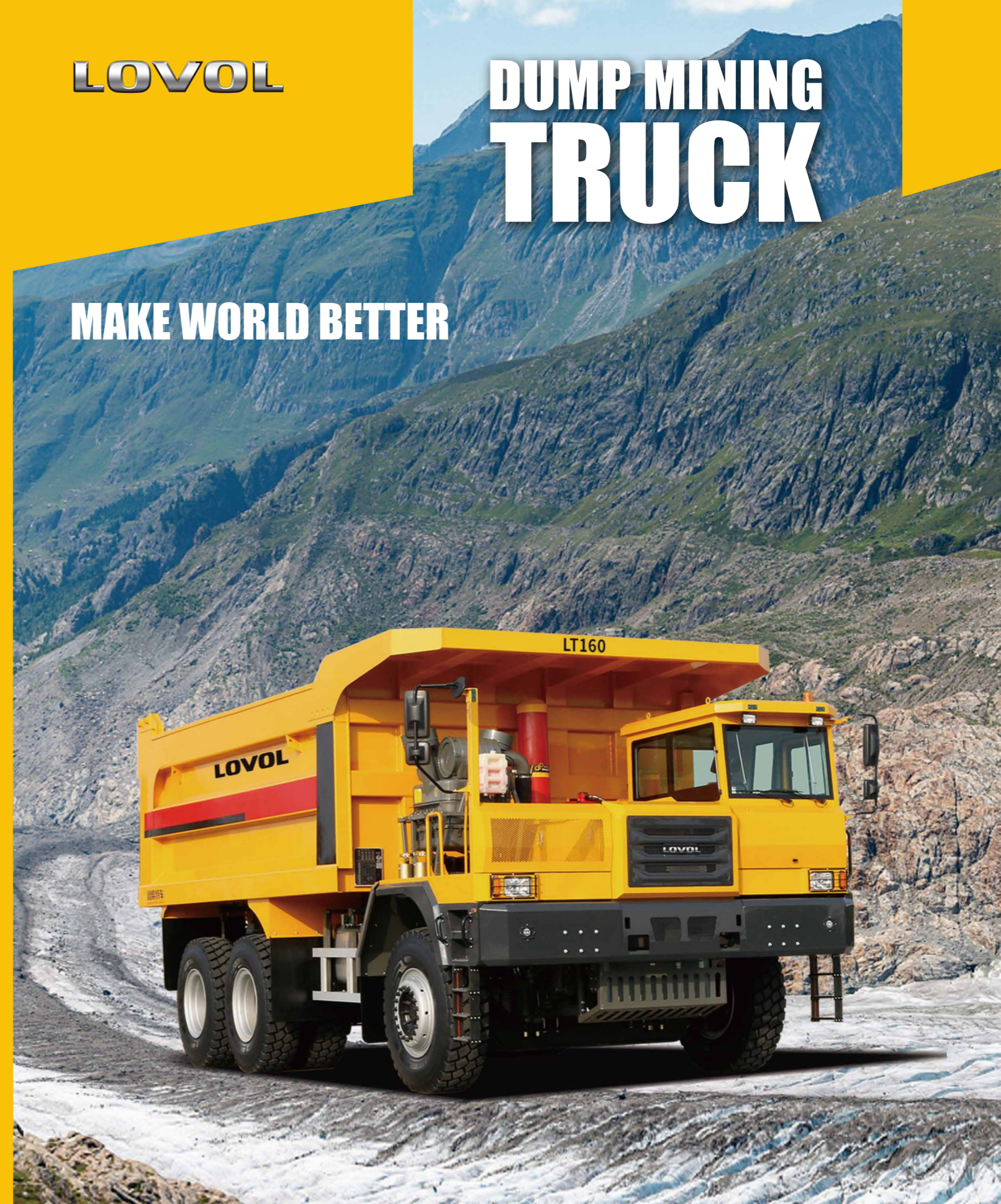


LOVOL

DUMP MINING TRUCK

MAKE WORLD BETTER

WE AIM AT CUSTOMERS' SATISFACTION



LOVOL

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THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THE PICTURES MAY INCLUDE OPTIONS. THE ACTUAL COLOR & APPEARANCE OF THE PRODUCT MAY DIFFER FROM WHAT IS SHOWN.

Curb weight (kg):54600

Max. gradeability (%):29

Power (kW):566

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PRODUCT INTRODUCTION

The LT160 large mining truck has a high reserve power and specific power of the vehicle, stronger climbing and heavy load starting ability, and higher operating efficiency. Mainly used for the mining and transportation of various large and medium-sized open-pit mines, to meet the development needs of large-scale mining equipment.

Manual:

Equipped with Weichai's "Gold Power System for Mining Trucks" with a 17 liter engine, a 300N. m high torque 8-speed gearbox, and an HDZ drive axle, it is the first in China and internationally leading.

Powerful-Manual

- Engine WP17.770, torque 3000N. m, large torque range, large power reserve, stronger heavy load starting and climbing ability.
- The transmission is 8DSS330 with a torque of 3300N. m. It features a three center shaft design, high reliability, long service life, and a small difference in low gear ratio, making it more suitable for mining conditions.
- 35 ton front axle, 60 ton drive axle (speed ratio: 18.722/21.398), mature main reducer, providing high reliable transmission performance for mining trucks.
- Weichai Group's Golden Power Chain features a brand new upgrade in power, which is fuel-efficient and highly efficient. One unit replaces two units, resulting in a 10% reduction in energy consumption per unit

Flexible frame - good adaptability

- The main beam has three layers of 12+12+10mm plates, which have high bending and torsion resistance, and stronger load-bearing capacity
- The section height of the main beam is 450mm, with small twisting amplitude and stable driving
- The widest width in the industry is 1460mm, with a belly plate width of 130mm. The vehicle has excellent lateral stability
- Dacromet bolts and Schbiler nuts are used to connect the frame connecting plate and crossbeam, with a high coefficient of friction and no looseness
- High strength flexible frame suitable for various road conditions in mining areas
- The main and subframe structure + X-shaped structure at the rear of the subframe have strong overall torsional resistance and good stability when lifting the cargo box

New Benchmark for Wide-Body Trucks Leads the Way for Large-Scale Mining Equipment

Solid and reliable chassis

- 1460mm wide flexible frame for high stability
- Reliable and comfortable with two options of dual sliding plate suspension or hydrocarbon front suspension
- Rear leaf spring balanced suspension with high load carrying capacity

Comfortable and relaxed drive

- Semi-suspension cab, excellent sealing and dustproof
- Special seat for comfortable ride
- Full hydraulic steering is light and precise

Power Upgraded

- Weichai 17L 770 high-horsepower engine, more powerful Weichai 17L 770 high-horsepower engine, more powerful
- Faster 8-speed high-torque transmission/allison 6620ORS automatic transmission, smooth shifting, high reliability
- 35-tonne front axle, 60-tonne centre and rear axles for reliable load-carrying



Automatic:

Equipped with Weichai 17 liter engine, Allison 6620ORS, and HDZ drive axle, the Allison transmission has high reliability, good compatibility with foreign parts; Automatic transmission models can effectively reduce driver labor intensity and improve efficiency.

Powerful-Automatic

- Engine WP17.770, torque 3000N. m, wide range of large torque, large power reserve, stronger heavy load starting and climbing ability
- Allison 6620 ORS automatic transmission, with high reliability, long service life, simple operation, smooth shifting, and high efficiency
- 35 ton front axle, 60 ton drive axle (speed ratio: 18.722/21.398), mature main reducer, providing high reliable transmission performance for mining trucks.

Braking Safety

- Germany VOSS pipe systems with high sealing reliability
- Three relay valves, independent control of each bridge, rapid and effective response
- Standard with hydrodynamic retarder to improve driving safety and enhance the life of tyres and brake shoes

Enhanced load-carrying capacity

- Large cargo box capacity, high transport efficiency
- Unique 480/95R29 tyres, good wear resistance, strong carrying capacity
- 1000L magnesium-aluminium alloy fuel tank, ultra-long range to meet the double-shift operation

VEHICLE PARAMETER	LT160	LT160A
Gross vehicle weight (kg)	160000	
Curb weight (kg)	54600	
Payload mass (kg)	110000	100000
Overall dimensions (L×W×H) (mm)	10450×4360×4550	10760×4360×4500
Wheelbase (mm)	4600+1900	
Tread (mm)	3342/3080/3080	3380/3080/3080
Max. vehicle speed (km/h)	38	40
Max. gradeability (%)	29	30
Min. turning diameter (m)	30	28
Min. ground clearance (mm)	410	

AXLE LOAD	LT160	LT160A
Laden (t)	35/60/60	

ENGINE	LT160	LT160A
Model	WP17G770E304(Stage 3)	
Power (kW)	566	
Speed (r/min)	1900	
Torque (N*m)/speed (rpm)	3000/(1200-1600)	

CLUTCH	LT160	LT160A
Model	Imported Double Disc Clutch	

TRANSMISSION	LT160	LT160A
Model	8DSS330+FHB400	Allison 6620ORS
Gear position	8.46、6.41、4.64、3.33、2.37、1.55、1、0.71、R8.02	F: 4、2.68、2.01、1.35、1、0.67 R: 5.15
Max. input torque (N.m)	3300	3078

DRIVE AXLE	LT160	LT160A
Type	Central, hub planetary two-stage reduction with inter-axle differential lock	
Overall gear ratio	21.398	
Rated axle load (kg)	60000	
Brake type	Cam drum brake	

FRONT AXLE	LT160	LT160A
Rated axle load (kg)	35000	
Brake type	Cam Drum Brake	

AIR FILTER ASSEMBLY	LT160	LT160A
Model	Oil Bath Air Filter	

WHEEL	LT160	LT160A
Tyre Size	480/95R29 ★★ ★	
Rim Size	13.00-29	

RADIATOR	LT160	LT160A
Structure	Plate-fin Radiator	

FUEL SYSTEM	LT160	LT160A
Volume (L)	1000L aluminum fuel tank	

STEERING SYSTEM	LT160	LT160A
Booster type	Full hydraulic steering	
System pressure(Mpa)	17	17.5
Flow(L/min)	40	

BRAKING SYSTEM	LT160	LT160A
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	10
Parking slope (%)	30 (uphill)/20 (downhill)	

SUSPENSION	LT160	LT160A
Front suspension	front rolled lugs and back slide plate+push rod structure	
Thickness / width / number of leaf springs	22/100/15	
Rear suspension	Leaf spring balance suspension	
Thickness / width / number of leaf springs	36/120/15	

DUMPING LIFT MECHANISM	LT160	LT160A
Type	Front lift-240	
Rated Pressure (Mpa)	20	
Max. dumping angle (°)	46	

DRIVER'S CABIN	LT160	LT160A
Type	Left hand drive, semi-floating	
Shock-absorbing seat	Upward/downward, forward/rearward adjustable, backrest angle adjustable	

FRAME	LT160	LT160A
Type	High-strength steel flexible frame (1460×450×130)	

ELECTRICAL SYSTEM	LT160	LT160A
Power supply	24V single wire system, negative earth	
Starting method	Key switch	

CARGO COMPARTMENT	LT160	LT160A
L×W×H(mm)	7400×4000×1850	7400×4000×1700
Carriage box volume capacity (m3) (Flat carriage)	55	50
Plate thickness	D16H14(NM400)- B14(Q355B) D16H14 (NM400) Q14C14 (Q345B) D:Bottom plate thickness H:Back door thickness B:Front plate and side plate thickness	