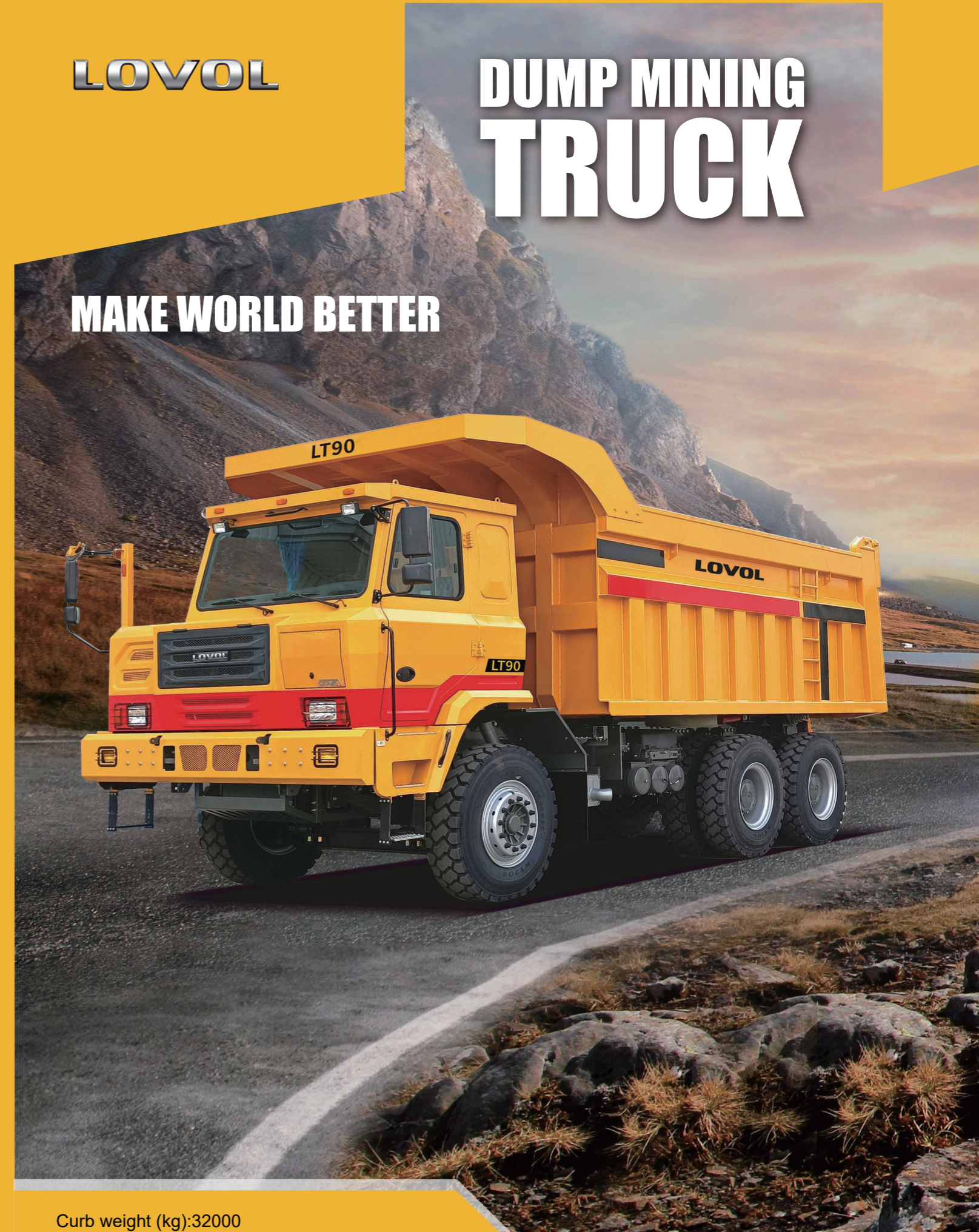


**LOVOL**

# DUMP MINING TRUCK

**MAKE WORLD BETTER**

**WE AIM AT CUSTOMERS' SATISFACTION**



**LOVOL**

**LOVOL HEAVY INDUSTRY GROUP CO.,LTD.**

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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):32000

Max. gradeability (%):30

Power (kW):316/338/390

**LOVOL HEAVY INDUSTRY GROUP CO.,LTD.**

## PRODUCT SELLING POINTS

### Solid and reliable

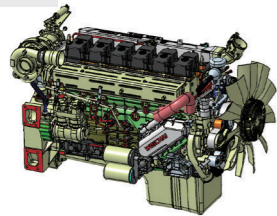
- **Super power** - up to 390kW
- **Extra wide frame** -1200mm
- **Super load capacity** - bigger tires, stronger load capacity

### Flexible and efficient

- **Better matching** - 13L gold power chain assembly :Weichai Engine;Fast Gearbox ;Hande Axle
- **Larger cargo box** - standard 32m<sup>3</sup>
- **Maneuverable and flexible** - high ground clearance and small turning radius
- **Flexible policies** - multiple financing platforms

## PRODUCT HIGHLIGHTS

### ENGINE



- The development of Weichai's WP12 off-road four-stage engine started early, has a high degree of maturity, and has been verified by three high experiments.
- Silicone oil clutch suction fan, low energy consumption.
- The transmission speed ratio is 1:1, the steering oil pump has a low speed and high reliability.
- Long-lasting fuel filter with longer maintenance interval (5000km/500h).

### TRANSMISSION

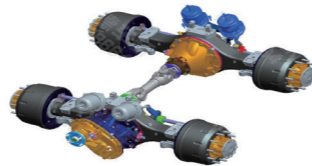
- Double intermediate shaft design, large head gear ratio (up to 9.14), strong climbing ability
- Single-box double-intermediate shaft structure, no sub-box, it is easy to operate and highly reliable



#### 6 major technologies peculiarity

- Large center distance (170), intermediate shaft segment-design, Three-point support, long life of rotating parts
- Inverted bevel tooth design to prevent gear dropping; New positioning method of two-shaft gear + segmented double; Key design, effectively reduce the failure rate
- According to the actual working conditions of mining vehicles, the speed ratio is designed, The low-gear speed ratio is smaller, which is more suitable for mining conditions

### AXLES



- Front axle: 20 tons, middle and rear axles: 35 tons
- Hande axle, market share of more than 90%

### CAB



- The full-skeleton wide-body cab (Figure 1) has greater space utilization than competing narrow-body cabs, is spacious and comfortable, and has an oversized windshield with a wide field of view, improving active safety.
- More reasonable ergonomics: interior, instrumentation, and controls.
- Powerful cooling, with a cooling capacity of 4800W, optimized cab air conditioning outlet piping, which is conducive to the release of cold/heat. The enlarged condenser is supplemented by an imported electronic fan, making the system more stable and reliable.
- The door adopts an integral double sealing structure to effectively prevent dust from entering. It has passed the smoke test and has excellent sealing effect.
- Wide-body driving can be turned forward 46° (Figure 2) to facilitate engine and other vehicle maintenance work.

#### Mechanical air conditioning is standard

- After the test of high temperature in Hami area, Xinjiang, the reliability is better.
- The condenser assembly with large heat dissipation capacity is arranged at the front of the cab platform, with low heat exchange interference and superior heat dissipation performance
- Variable displacement air conditioning compressor assembly, energy saving and fuel saving.



VEHICLE PARAMETER	LT90	LT90A
Gross vehicle weight (kg)	90000	
Curb weight (kg)	32000	
Payload mass (kg)	60000	
Overall dimensions (L×W×H) (mm)	8950×3550×4150	
Wheelbase (mm)	3800+1550	
Tread (mm)	2606( Front 2656)	
Max. gradeability (%)	30	
Min. turning diameter (m)	22	
Min. ground clearance (mm)	380	
Max. vehicle speed (km/h)	40/38	40
AXLE LOAD	LT90	LT90A
Laden (t)	20/35/35	
ENGINE	LT90	LT90A
Model	WP12G/13G	WP12G460E310
Power (kW)	316/338/390	338
Speed (r/min)	2100	
Torque (N*m)	1870/2000/2300	2000/(1200-1600)
CLUTCH	LT90	LT90A
Model	430 Single-chip pull, hydro-pneumatic booster	
TRANSMISSION	LT90	LT90A
Model	7DS200/8DS240A	FC6A210
Gear position	9.14、 6.7、 4.85、 3.6、 2.65、 1.61、 1、 R8.51/B.1 6.01、 4.11、 3.05、 2.12、 1.45、 1、 0.83、 R7.57	F: 4.40、 2.33、 1.53 1.00、 0.72、 0.61 R: 3.97
Max. input torque (N.m)	2000/2400	2000
DRIVE AXLE	LT90	LT90A
Type	Central, hub planetary two-stage reduction	
Overall gear ratio	12.87/16.086/18.385	18.385
Rated axle load (kg)	35000	
Brake type	Cam drum brake	
FRONT AXLE	LT90	LT90A
Rated axle load (kg)	20000	
Brake type	Cam Drum Brake	
AIR FILTER ASSEMBLY	LT90	LT90A
Model	Multi-stage dust air filter	
WHEEL	LT90	LT90A
Tyre Size	14.00R25 ★★ ★	
Rim Size	10.00-25	

RADIATOR	LT90	LT90A
Structure	Plate-fin Radiator	
FUEL SYSTEM	LT90	LT90A
Volume (L)	600L	
STEERING SYSTEM	LT90	LT90A
Booster type	Full Hydraulic Steering	
System pressure(Mpa)	17	
Flow(L/min)	40	
BRAKING SYSTEM	LT90	LT90A
Service brake	Double Circuit Drum Air Brake	
Parking brake	Spring energy-storage air-break braking with emergency braking	
Auxiliary brake	Engine exhaust braking+WEVB	
System pressure (bar)	10	
Parking slope (%)	30 (uphill)/20 (downhill)	
SUSPENSION	LT90	LT90A
Front suspension	Longitudinal leaf spring	
Thickness / width / number of leaf springs	20/100/13	
Rear suspension	Leaf spring balance suspension	
Thickness / width / number of leaf springs	29/100/15	
DUMPING LIFT MECHANISM	LT90	LT90A
Type	Front lift-196	
Rated pressure (MPa)	20	
Max. dumping angle (°)	46	
DRIVER'S CABIN	LT90	LT90A
Type	Left hand drive, semi-floating, forward 46°	
Shock-absorbing seat	Upward/downward, forward/rearward adjustable, backrest angle adjustable	
FRAME	LT90	LT90A
Type	High-strength steel flexible frame (1200×450×130(12+12))	
ELECTRICAL SYSTEM	LT90	LT90A
Power supply	24V single wire system, negative earth	
Starting method	Key switch	
CARGO COMPARTMENT	LT90	LT90A
L×W×H(mm)	5800×3300×1700	
Carriage box volume capacity (m3) (Flat carriage)	32	
Plate thickness	D16H10 (NM400)、 B10 (T700) D:Bottom plate thickness H:Back door thickness B:Front plate and side plate thickness	