LGMG Corporate Profile and Off-road Truck
Contents

- Corporate profile

- Off-road trucks and their features
LGMG and SDLG

- Among world’s 50 largest construction equipment producer;
- World’s largest loader manufacturer;

Volvo CE

Signing Ceremony in Oct. 2006
Corporate overview

- Lingong Machinery Group was founded in 1972 and is one of China’s leading manufacturers of construction equipment. It is particularly well known for its construction machinery, for which it is one of the world’s leading suppliers. The company uses its own world-class manufacturing program, the Lingong Production System, to ensure the quality, efficiency and reliability of its range of construction machinery products.

- Its headquarters are based in Linyi, Shandong Province, China.

- Registered capital: RMB1.54 billion
Awards and honors

- World’s Top 50 Construction Machinery Enterprises
- Top 500 Asia Brand
- China’s 500 most Valuable Brand
- Top 100 Chinese Machinery Enterprises
- National Class Technical Center Award
# Product range

**Under LGMG brand name**
- Wheel Loader
- Excavator
- Road Machinery

**Under LEADWAY brand name**
- Off-road Truck
- Tire

## Off-road Truck
- Payload range 40T-80T

## Tire
- Off-the-road Tires
- Truck and Bus Tire

## Wheel Loader
- Operating weight range 1 - 12t
- 30 models in total

## Excavator
- Operating weight range 6 - 46t
- Cutting-edge technology

## Road Machinery
- 14 - 22t single-drum road roller
- 12t double-drum hydraulic road roller
- 18 - 21t three-drum static road roller
- 8t backhoe loader
- 180-200hp series motor grader

### 2014 sales volume rank 1st, market share 18.9%
- Under LGMG& SDLG brand name

### 2014 sales volume 26,000 units. Largest loader manufacturer in the world.

### Lowest quality feedback among Chinese brand.
Construction machinery manufacturing facility – Linyi.

The world-class manufacturing facility covers a total area of 1,127,000 m².
Off-road truck manufacturing facility – Jinan

The largest manufacturing facility covers a total area of 200,000 m².
Tire manufacturing facility

- 5.8 million truck tire and 150,000 OTR tire per year
- Technical cooperate with Japan famous tire producer
- Ultra large radial OTR tires up to 57 inch
- One of Top 10 tire manufacturers in China
Employees – 2014

Total employees: 3,368

- Engineers and others: 467
- Production / manufacturing: 277
- Administrative / back office: 409
- Sales: 2,215

Percentage of education levels:

- PhD: 1
- Master: 132
- Bachelor: 877
- Others: 2,358

(0% - 4%: 26% of total employees)
Contents

- Corporate profile

- Off-road trucks and their features
1. Off-road Truck and Their Features

Choices of Traditional Transport Solutions in Mining
New Choice-----China’s Off-road Truck
China’s off-Highway truck market

Market Share of the Three Categories in China’s Market

2004

2014
Classification of products and their features

On-highway dump truck

Light, Mid & Heavy: payload range 2T-20T.

Strengths: Low cost in purchasing, repair and maintenance
Weaknesses: Small payload and poor safety.

Classical Dump Truck

Rigid Dump Truck (Payload 25T to 100T);
Electric Wheel (Payload 120T to 360T);
ADT (Payload 23T to 42T).

Strengths: Large payload, good safety;
Weaknesses: Expensive in purchasing, repair and maintenance
Off-road Truck

Feature

Convergence of the strengths of rigid dump truck and on-highway dump truck, featuring large payload, good safety, high reliability, low purchasing price, low maintenance cost.

Large Tonnage: Payload ≥ 50 Metric Ton
Small & Medium Tonnage: Payload 30—50 Metric Ton;
## Some Indicators on the function and economy of the three categories

<table>
<thead>
<tr>
<th>Indicators on function</th>
<th>CAT</th>
<th>Terex</th>
<th>On-highway Truck</th>
<th>Off-road truck</th>
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</thead>
<tbody>
<tr>
<td>Engine power/Payload (Kw/t)</td>
<td>8.5</td>
<td>8.5</td>
<td>8.5</td>
<td>8.2</td>
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<tr>
<td>Engine Torque Output/Payload (Nm/t)</td>
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<td>45</td>
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<tr>
<td>Payload/Curb weight (t/G)</td>
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<td>1.3</td>
<td>1.8</td>
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<td>Price/Curb Weight (USD1,000/t)</td>
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<td>11.6</td>
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<tr>
<td>Price/Payload (USD1,000/t)</td>
<td>9.5</td>
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<td>1.5</td>
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<tr>
<td>Service Life</td>
<td>8-10</td>
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<td>2</td>
<td>4—5</td>
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<td></td>
<td>Classical Truck</td>
<td>Off-road Truck</td>
<td>On-highway Truck</td>
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<tr>
<td>Payload</td>
<td>30T—360T</td>
<td>30T—70T</td>
<td>10T—30T</td>
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<tr>
<td>Service Life</td>
<td>8-10 Years</td>
<td>5 Years</td>
<td>2—3 Years</td>
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<tr>
<td>Security</td>
<td>+++</td>
<td>++</td>
<td>+</td>
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<tr>
<td>Price</td>
<td>+</td>
<td>++ (1/4 of Classical Trucks)</td>
<td>+++</td>
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<tr>
<td>Repair &amp; Maintence Cost</td>
<td>+</td>
<td>++ (1/4-1/5 of Classical Trucks)</td>
<td>+++</td>
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<tr>
<td>Wage</td>
<td>+</td>
<td>+++</td>
<td>+++</td>
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<tr>
<td>Fuel Consumption</td>
<td>+</td>
<td>++ (1/2 of of Classical Trucks)</td>
<td>+++</td>
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2. Products Range and the General Specification

2.1 Product Range

- **Off-road Truck**
  - MT48: Payload 30T
  - MT60: Payload 40T
  - MT76: Payload 50T
  - MT80/MT80C: Payload 55T

- **Rigid Dump Truck**
  - MT83: Payload 55T
  - MT86/MT86C: Payload 60T
  - MT90: Payload 65T
  - MT100: Payload 80T
2, General Specification

2.1, Techniques

Combination of off-road truck and construction techniques in the following aspects:

1. Damping
2. Tightening
3. Converging of Hydraulic Flows
4. Heat Radiation
5. Driver’s Cab
2.2, Feature of Lingong Off-road Trucks

1. Combination of off-road truck and construction machinery techniques

2. Redesigns over main parts or assemblies to meet the requirements of harsh working condition.

High Reliability
Large Payload
All Working Conditions

3. Upgrading in product configurations.
### Parameters

**MT86**

- **Gross Weight**: 88000kg
- **Curb Weight**: 28000kg
- **Payload**: 60000kg
- **Engine Power**: 420ps
- **Max. Gradeability**: 36%
- **Highest Speed**: 57km/h
- **Body Volume (Tail-Warped)**: 34m$^3$
19T+37T+37T in bearing capacity

10JSD220(A), Forward 10 gears, Backward 2 gears

14.00-25

Riveted Frame fabricated from high strength plate, 380*120*(10+10)mm

Framed body, 1000Mpa in Yielding strength

Roll-over Protection Design

Pushing Rod: Ø78mm
Balance Shaft: Ø130mm
Parameters

- **Gross Weight**: 76000kg
- **Curb Weight**: 26000kg
- **Payload**: 50000kg
- **Engine Power**: 375PS
- **Max. Gradeability**: 36%
- **Highest Speed**: 55km/h
- **Body Volume (Tail-Warped)**: 32m³
1. 16T+35T+35T in bearing capacity
2. 7DS180, Forward 7 gears, Backward 2 gears
3. 14.00-25
4. Riveted Frame fabricated from high strength plate, 380*120*(10+6)mm
5. Framed body, 1000Mpa in Yielding strength
6. Pushing Rod: Φ70mm, in V-shape layout
7. Balance Shaft: Φ130mm

Roll-over Protection Design