

On Board Truck Scales

— LABIRINTH

Lascaux Microelectronic Device (Tianjin) Co., Ltd. is one of the professional companies that produces load cells, sensor accessories, and provides complete solutions for weighing, industrial measurement, and control. We are willing to become your ideal partner. Not only in the field of sensor products, but also in the application of industrial measurement and control and related products, we have more than 20 years of exploration and practice. We are also very happy to share this experience with our partners.

Product introduction

Selection guideline

Installation scheme

Function introduction



On board truck scales play a crucial role in modern transportation and logistics fields. It provides accurate, efficient, and safe weight management solutions for vehicle transportation business, helping enterprises achieve cost control, operational optimization, and compliance management.

What problems can the on board truck scales help you solve?

- Improve loading efficiency and reduce capacity loss caused by overloading or underloading.
- High concurrency and massive data storage, capable of real-time online monitoring and management of thousands of vehicles.
- Avoid fines and losses caused by cargo transportation due to overloading.
- Combating theft of goods.

In what vehicles can on board truck scales be installed?

- Widely used in various vehicle models such as sanitation garbage trucks, cement trucks, oil tank trucks, coal trucks, trucks, kitchen garbage trucks, and construction garbage trucks.
- We can customize according to user installation needs, vehicle types, communication requirements, and other customer needs.

What are the application scenarios of on board truck scales?

1. Real-time weighing
2. Number of trips
3. Data statistics and efficiency analysis
4. Overload alarm
5. Partial load warning
6. Flow control
7. In-transit weight change monitoring
8. Settlement of transportation charges
9. Traffic volume information

Technological advantage

- Easy to install, stable and reliable, quick debugging and calibration.
- High precision sensor designed for nonlinear deformation of vehicle body.
- The damaged sensor can be found in time through the background management system, without affecting the normal operation.
- Record user load monitoring and export reports by day, month and year.

Industry comparison

- Super research and development capability - Professional load cell R & D, manufacturer, 20 years of sensor industry solution provider.
- Fully qualified - We have passed 50 applications and patent certifications
- Perfect after-sales service - One year warranty, 7 days no reason to return, free software upgrade, 7x24 after-sales service.

Selection guideline

Option 1: This option is applicable to various vehicle models such as waste truck weighing, truck, logistics truck, coal truck, and slag truck.



Load cell model: 607A
Number of installations: 4-6 or more



Optional model:



Junction box



Vehicle terminal



Background management system



Server

Model	Capacity	Precision	Rated output	Repeatability	Excitation voltage	Material
607A	10-30T	±0.1%F.S.	1mV/V	±0.1%F.S.	5-15VDC	Alloy steel

Selection guideline

Option 2: This option is suitable for various vehicle models such as single bin weighing of garbage trucks, bucket mounted garbage trucks, and self loading and unloading garbage trucks.



Load cell model: LVS
Number of installation: 1



Junction box

Vehicle terminal



Background management system

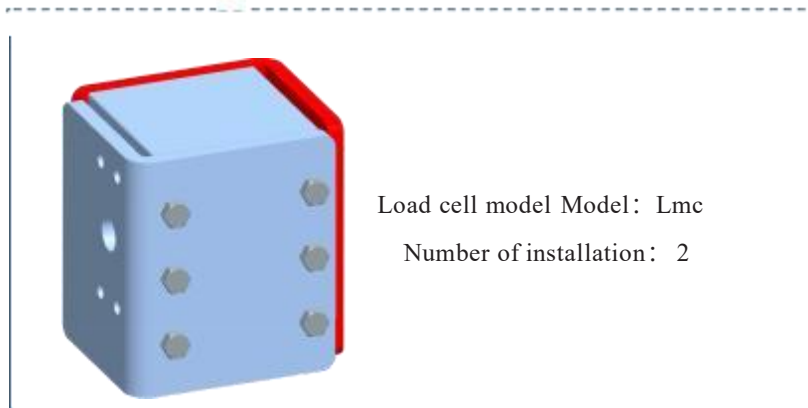


Server

Model	Capacity	Precision	Rated output	Repeatability	Excitation voltage	Material
LVS	500KG	±0.5%F.S.	1mV/V	±0.1%F.S.	5-15VDC	Alloy steel

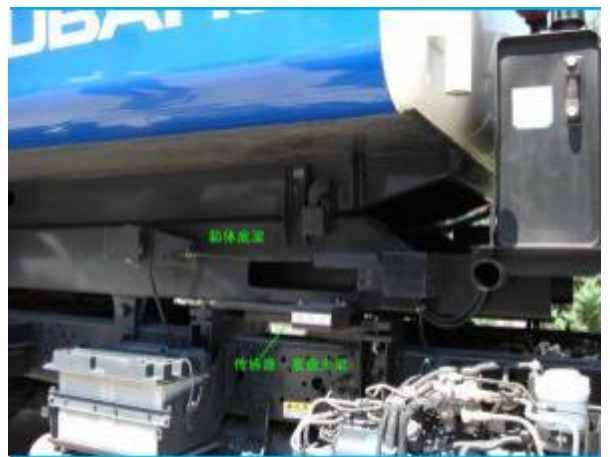
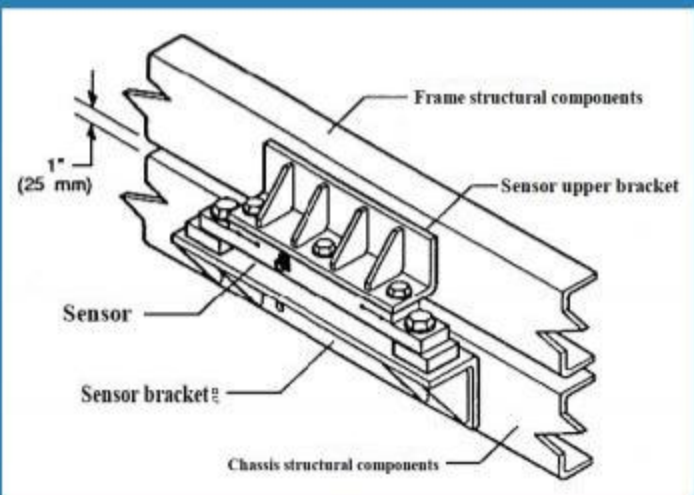
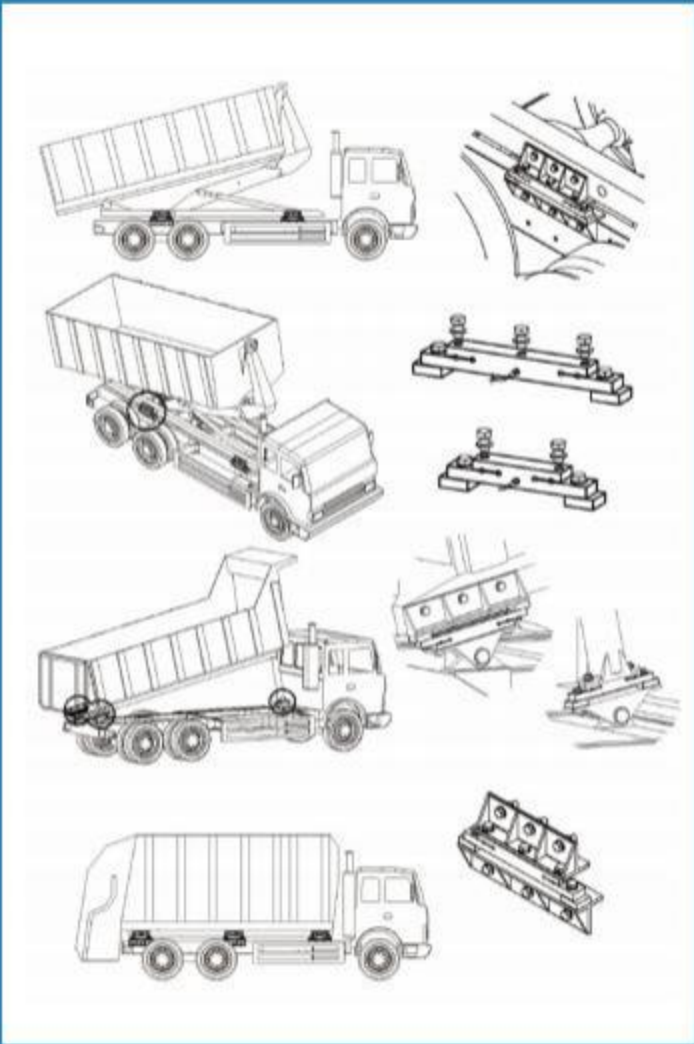
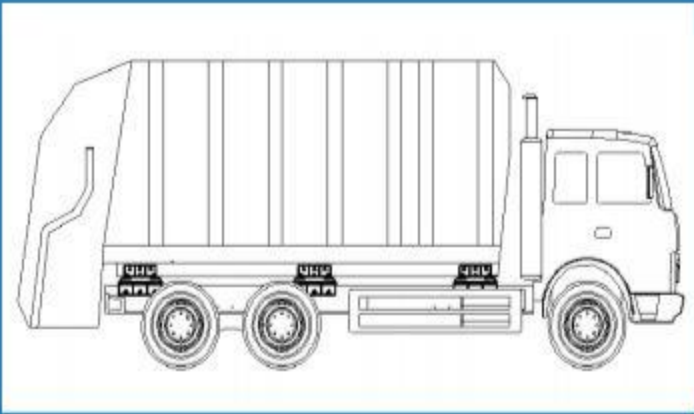
Selection guideline

Option 3: This option is suitable for regional weighing, compressed garbage trucks, rear mounted garbage trucks, and other vehicle models.



Model	Capacity	Precision	Rated output	Excitation voltage	Material
Lmc	5T	±0.5%F.S.	1mV/V	5-15VDC	Alloy steel

Installation scheme



What products are included in the vehicle weighing system?

Load Cell

- Capacity: 5T-30T
- Full load weighing: Precision 0.5%
- Port: 485/232 port
- Supply voltage: 12V~24V
- Operating temperature: -40°~85°C
- Protection Class: IP68, Comprehensive waterproof design
- Load status: no load, half load, heavy load, overload
- Loading and unloading status: loading, unloading
- Number of installations: 4-6, according to the different models, the engineer will choose the model for you.

Load cell Junction box: 4 wire, 6 wire, 8 wire, etc

Vehicle terminal

- Operating voltage: Suitable for AC220V or DC12-24V
- Operating temperature range: -25~60°C
- Use 6-digit digital tube display, support peeling, calibration.
- Up to 10 analog sensors can be connected (Need a Junction box)
- Report weighing value and position information by triggering (optional)
- With real-time display function, wireless reception can be selected, and 4Giot module can be installed to realize real-time upload of weight data.

Background management system

Based on Alibaba Cloud's lightweight data management platform, vehicle load information can be summarized. Vehicle load signals are collected by multiple load cells installed at the bottom of the vehicle, and transmitted to the vehicle-mounted weighing terminal through cables. The vehicle-mounted weighing terminal will analyze and process the received analog signals, and finally transmit the processed results to the server. Users can obtain data results in the background management system.

SaaS Platform architecture:

Sensor→ Vehicle terminal→Server→Background management system

Background management system→Data management→Data report→Report export

Optional and customizable

GPS Custom function: Vehicle track playback, location query.

Optional printer, print weighing receipt, convenient for users to leave a record.

Vehicle segmentation: Garbage truck weighing system

Lascaux garbage truck intelligent weighing SaaS platform can respectively conduct detailed query and data statistics for task target objects such as collection and transportation vehicles, production and waste units, processing units, streets, and regions according to time.

Monitoring data, management data, to achieve reasonable environmental sanitation facilities, reasonable planning of collection and transportation mode, to assist the environmental sanitation management department fine management, and accurate decision-making in the future.



Qualification certification

Patent Certificate Invention Certificate CE Certification Explosion-Proof Certification



 To provide you with a full set of weighing force measurement solutions



Technical service and after-sales service

Pre-sale service

Technical services: provide product samples to customers and introduce product performance; To provide customers with technical advice, technical training and technical disclosure, so that customers as much as possible to understand and master the technical performance and operation and maintenance of the product, easy for operators to use correctly.

After-sales service

In the process of product manufacturing, strictly according to the provisions of the supply agreement and product technical conditions to ensure product quality, according to the contract time supply.

Responsible for guiding installation, commissioning and on-site training and other one-stop services. The warranty period is one year, and the company implements three guarantees for the products during the warranty period. If there is a quality problem, the company promises that the service response time is not more than 48 hours. Even after the warranty period, the same quality service is provided, only cost charges.

The company to the demand side free technical training, training personnel (2-3 a time) training location: video online guidance.

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