

CHENGLI SPECIAL AUTOMOBILE CO., LTD.

Lifting Intelligent Environmental Protection Garbage Collection and Storage Equipment

升降式智能环保垃圾收储设备 | Buried Lifting Compaction & Storage Unit



Installed unit — buried lifting hopper in raised position with solar-powered monitoring post

Overview

This equipment is a new-generation, high-tech environmental protection device developed specifically for the current sanitation market. It uses a buried installation design and is intended to be paired with a rear-loading garbage compactor truck as the primary transfer vehicle, while also accommodating small collection vehicles for unloading. The unit holds multiple patent certificates.

At a Glance — Key Features

No Water or Electricity Required Fully self-contained operation with no need for a water or power connection at the installation site.	Compact Footprint Buried design keeps the visible surface footprint minimal, suiting tight urban and community sites.
Simple Construction Straightforward installation process with minimal site preparation or civil works.	High Environmental Performance Enclosed, buried structure limits odor, pests, and visual impact on surrounding areas.
Strong Practicality Pairs with rear-loading compactor trucks or small collection vehicles for flexible unloading.	Remote Control Operation Equipment can be operated remotely, reducing manual handling and labor exposure.

Optional add-ons include solar-powered surveillance monitoring, automatic spray deodorization systems, and advertising LCD display panels — configurable to the site's operational and revenue requirements.

Technical Parameters

Available in two standard configurations; dimensions and capacity can be further customized to customer requirements.

Parameter	Specification 1	Specification 2
Volume	3.2 m ³	5 m ³
Payload	Approx. 1 tonne	Approx. 2 tonnes
Equipment Dimensions	L 2.45 × W 1.95 m	L 3.7 × W 2.15 m
Motor	DC 24V	DC 24V
Maximum Working Pressure	21 MPa	21 MPa
Feed Opening Size	1.4 m	1.4 m
Material	Q355 steel / stainless steel	Q355 steel / stainless steel
Service Life	10 years	10 years

Application & Reference Photos

The unit pairs with market-standard rear-loading compactor trucks, enabling seamless docking and direct waste transfer — a one-vehicle, multi-site collection model that reduces fleet requirements and energy consumption.



Seamless docking — the hopper tips waste directly into the compactor truck



Direct transfer connection between the buried unit and the collection vehicle



Matched with market-standard rear-loading compactor trucks



One vehicle, multiple sites — lowering fleet and energy costs



Roadside installation with solar monitoring kiosk — suited to small front-end collection vehicles using market-standard rear-loading compactor trucks

AT A GLANCE — KEY FEATURES

Smart Design. Clean Environment. Efficient Operation.

01 No Water or Electricity Required

Fully self-contained operation with no need for a water or power connection at the installation site.




02 Compact Footprint

Buried design keeps the visible surface footprint minimal, suiting tight urban and community sites.




03 Simple Construction

Straightforward installation process with minimal site preparation or civil works.




04 High Environmental Performance

Enclosed, buried structure limits odor, pests, and visual impact on surrounding areas.




05 Strong Practicality

Pairs with rear-loading compactor trucks or small collection vehicles for flexible unloading.




06 Remote Control Operation

Equipment can be operated remotely, reducing manual handling and labor exposure.




OPTIONAL ADD-ONS



Solar-Powered Surveillance Monitoring
24/7 monitoring for safer and smarter operations.



Automatic Spray Deodorization System
Reduces odor and maintains a fresh surrounding environment.



Advertising LCD Display Panels
Supports information release and generates additional revenue.



 Efficient & Reliable

 Clean & Odor-Free

 Safe & Smart

 Low Maintenance

 Built for Communities

BIB

Manufacturer

Chengli Special Automobile Co., Ltd. is a core enterprise of the CLW Group and a government-designated large-scale manufacturer of special-purpose vehicles and environmental equipment, holding ISO 9001, ISO 14001, and ISO 45001 (OHSAS 18001) certifications alongside China Compulsory Certification (3C) and other international qualifications.