

# **FLM5070ZYSDG6C Wet Waste Collection Truck**

## **Product Specification**

2021.5

## 1. Introduction

The truck adopts the EQ1075SJ3CDF chassis of Dongfeng Co., Ltd., which complies with the China 6 emission standard. The truck has a large loading capacity, and the side lifting mechanism is adapted to the setting of roadside trash cans, and the feeding operation is convenient, especially suitable for the collection and transportation of urban and rural roadside trash cans.

The truck has fast loading speed, high lifting efficiency, large garbage tank volume, and reliable performance.



Right 45°



Left



Front



Rear

## 2. Function

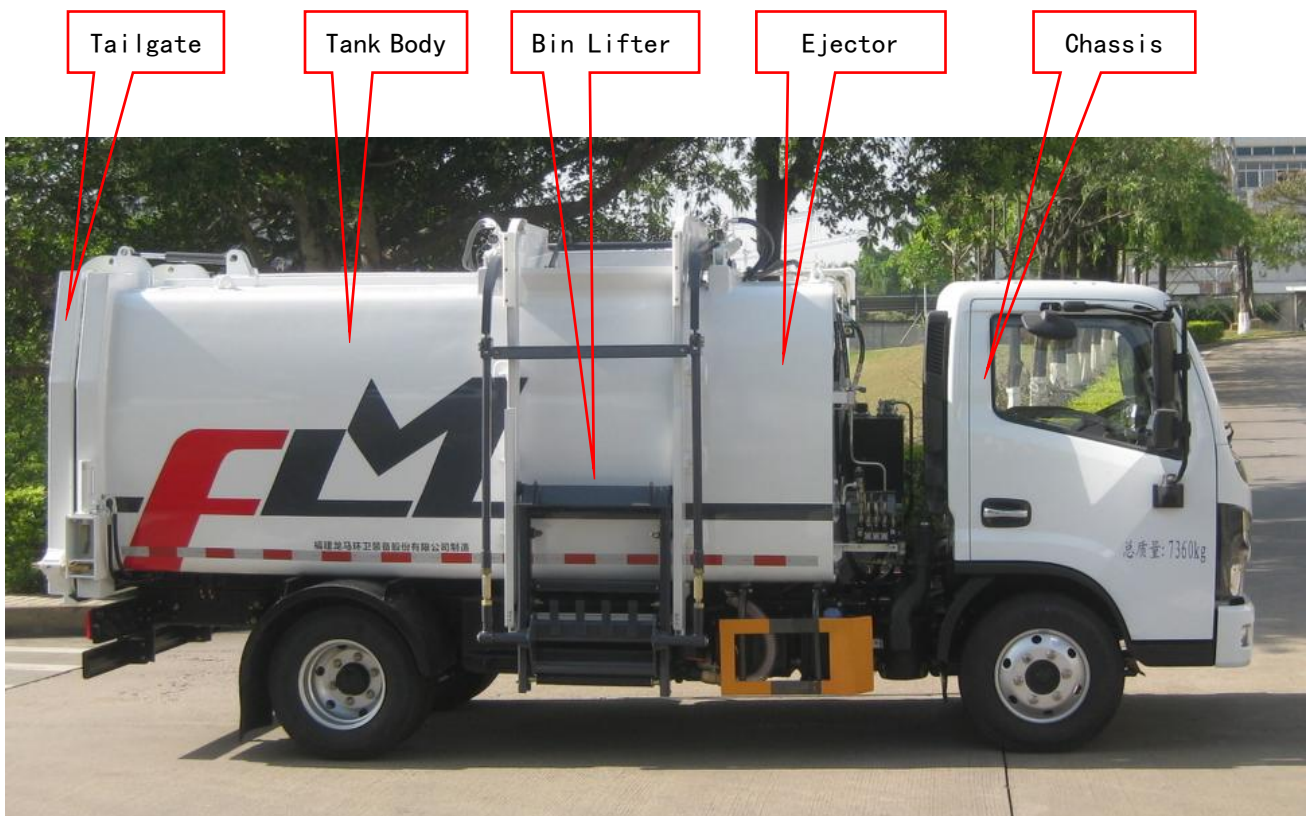
The truck uses the lifting mechanism on the side to carry out the loading operation of the trash can. The top cover is linked with the lifting mechanism and automatically opens when loading. The ejector inside the garbage tank will perform garbage compression and

unloading operations. The tank has a built-in filter screen, which can filter the sewage in the garbage to the sewage tank on the side of the truck, and the sewage holding capacity is strong. The tailgate is also designed with a drip-proof sewage tank to prevent sewage from dripping to the ground. At the same time, a rear sewage tank can be optionally installed.

### 3. Range of Application

This product has more advantages in terms of operation convenience, loading capacity, loading efficiency, etc., and is more suitable for collecting garbage in urban and rural roadside garbage bins. The car has a large box volume, which can meet the two modes of docking and direct transportation.

### 4. Main Structure & Characteristics



#### 4.1 Chassis

Chassis. It is modified with EQ1075SJ3CDF chassis, which has strong power and strong carrying capacity.

Engine. It adopts the Quanchai Q28-130E60 diesel engine with a rated power of 96kW and a rated speed of 2800r/min, and its emissions reach the National Sixth Standard.

## **4.2 Tank Body**

The tank body is made of high-strength manganese plate, and the whole body is a frame-like structure with a large curved side arc, which has a strong anti-deformation ability, long service life, beautiful appearance, and good strength. The unique design of the tank is convenient to clean up the garbage at the rear of the ejector and facilitate the maintenance of the ejector cylinder. The tank has a large volume with an effective volume of 7.5m<sup>3</sup>.

## **4.3 Compression Mechanism**

Use ejector to compress garbage. The ejector adopts the overall inclined plate design, which improves the effective volume of the garbage tank and the garbage climbing ability, improving the compression rate. The side of the ejector adopts a detachable sealing plate to prevent garbage from leaking to the rear of the tailgate.

## **4.4 Bin Lifter**

There is a bin lifter on the right side of the tank, which can lift 120, 240 liters of standard trash cans. The lifting process has low friction and smooth movement. The bin lifter and the upper cover form a linkage mechanism through a connecting rod and a swing arm, which not only saves costs but also improves work efficiency. The tilting angle of the trash can and the height of the tooth plate from the ground can be adjusted by the angle adjustment mechanism and the adjustable connecting rod at the upper end of the lifting rail to avoid the problem that the garbage cannot be dumped cleanly. The use of a dedicated lifting mechanism anti-drip device can effectively avoid the problem of sewage dripping during the lifting process, reduce secondary pollution, and be environmentally safe. Equipped with a feeding buffer, the trash can turning time can be adjusted, the loading is stable.

## **4.5 Tailgate**

The tailgate cylinder seat is vertically arranged, which is convenient for installation and maintenance, and a sequence valve is used to control the opening and closing sequence of the tailgate and the latch, which is reliable in action and reduces costs. The special tailgate rubber strip and rubber strip groove can prolong the service life of the rubber strip and improve the sealing performance of the tailgate. A special anti-drip device is adopted to

collect the sewage leaking from the tailgate, and the structure is simple and safe. At the same time, a rear sewage tank can be optionally installed, which has a strong sewage holding capacity.

#### 4.6 Control

The control valve set is located on the right side of the truck, and the action of the superstructure is realized by operating the handle on the valve set, including the lifting mechanism, the ejector, and the tailgate.



### 5. Main Specifications

Model		FLM5070ZYSDG6C
Chassis Model		EQ1075SJ3CDF
Chassis Manufacturer		Dongfeng Motor Co., Ltd.
Emission Standard		China VI
Chassis Engine	Model	Q28-130E60
	Maximum Net Power/Rotation Speed (kW)	93/2800
	Rated Power/Rotation Speed (kW/(r/min))	96/2800
	Maximum Torque/Rotation Speed (N.m/(r/min))	400/1200-2200


Dimensions	External Size	Length (mm)	5960
		Width (mm)	2095
		Height (mm)	2615
	Wheelbase (mm)		3308
	Front/Rear Wheel Track (mm)		1519/1498
	Front/Rear Overhang (mm)		1055/1597
	Minimum Ground Clearance (mm)		190
	Approach Angle (°)		27.7
	Departure Angle (°)		15
Weight	GVW (kg)		7360
	Curb Weight (kg)		4450
	Payload (kg)		2780
	Front/Rear Axle Load (kg)		1800/2650
Driving Performance	Turning Radius (m)		≤14.7
	Top Speed (km/h)		110
	Gradeability (°)		≥20
	Brake Distance (50km/h. full load) (m)		≤10
Working Mechanism	Unloading Cycle Time (s)		≤45
	Bin Lifter Cycle Time (s)		≤15
	Garbage Tank Volume (m <sup>3</sup> )		7.5
	Hydraulic System Maximum Pressure (MPa)		16



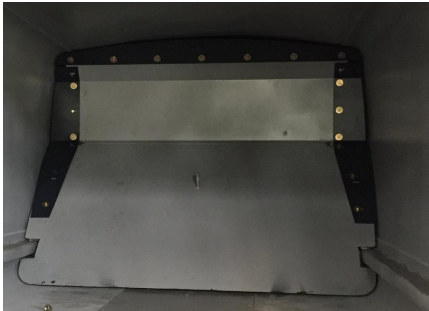
## 6. Product Advantage

No.	Advantage	Description
1	Prior	The product adopts ejector compression mechanism, which

	Performance	has strong compression capacity, large tank volume and high loading capacity.
2	Good Quality	The box body is made of high-strength manganese steel plate to ensure that it is not rusty and has a long service life. The frame structure guarantees the overall strength and beautiful appearance.
3	Reliable	Various safety devices such as hydraulic locks, proximity switches, and safety struts are designed to ensure safe operation. Equipped with side protection guard and rear protection guard to ensure driving safety.
4	Friendly Operation	The side bin lifter is convenient for loading, and the operating mechanism and bin lifter are on the same side, so the operator can observe in real time.
5	Easy Maintenance	The front panel of the tank has an opening design, which is convenient to clean up the garbage at the rear of the ejector and facilitate the maintenance of the ejector cylinder.

## 7. Working Mechanism


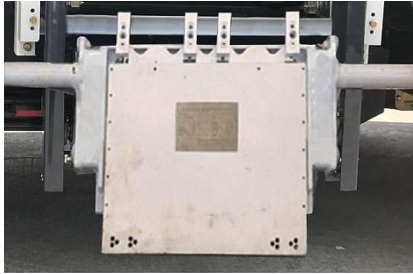
No.	Items	Picture	Functions
1	Bin Lifter		Used to lift the trash can
	Description	Compatible with 120L and 240L standard trash cans, the linkage lifting mechanism has stable performance and is convenient for maintenance and cleaning	

2	Top Cover		Used to seal the garbage tank entrance
	Description	The top cover plate is linked with the lifting mechanism, which is easy to operate and avoids mis-operation	
3	Tailgate		Used to seal the garbage tank
	Description	The tailgate cylinder seat is arranged vertically, which is convenient for installation and maintenance, and the sequence valve is used to control the opening and closing sequence of the tailgate and the latch, which is reliable in action and reduces costs.	
4	Ejector		Used for garbage unloading
	Description	The bottom of the ejector is designed with sloping shape, which is convenient for the arrangement of the oil cylinder and enhances the effective volume of the tank. It can also increase the climbing capacity of the garbage to increase the loading	



		capacity.
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### 8. Optional Selected

No.	Items	Picture	Functions
1	Rear Sewage Tank		Used to collect sewage leaked from the tailgate to prevent secondary pollution
	Description	Large volume, easy to clean	
2	Weighting System		Used to weight the trash can
	Description	The structure is beautiful, the weighing data is accurate, and the error is less than 3%.	