

FLM5030XTYDG6

Lift-gate Garbage Truck

FULONGMA GROUP CO., LTD.

2021.02

INTRODUCTION

1. Overview

FLM5030XTYDG6 is modified with DONGFENG EQ1035SJ16QC truck chassis. The body is equipped with a closed carriage with a vehicle-mounted hydraulic lifting tailgate and a liftable top cover. The closed carriage can avoid secondary pollution caused by sewage dripping and garbage floating. This model integrates loading, unloading, and transporting of trash cans, and is the best collection and transportation equipment for urban and rural and street trash cans.



Right



Left



Front



Rear

2. Functions

The vehicle operation mainly lifts the trash can to the height of the bottom of the truck through the hydraulic tailgate at the rear of the truck, and manually loads it into the carriage. During the operation, the lift cover on the top of the carriage will be opened, and the height of the truck after opening is 1850mm, which is convenient for personnel to move the trash can

in the compartment.

3. Applications

This truck integrates the loading and unloading and transportation functions of barreled garbage, and is widely used in the collection and transfer of barreled garbage in urban streets, residential areas and other areas.

4. Structure & Characteristics



4.1 Chassis

Chassis: Modified with DONGFENG EQ1035SJ16QC chassis, which has strong power and strong bearing capacity.

Engine: Equipped with a WULING LJ4A15Q6 petrol engine with a rated power of 83kW, a rated rotation speed of 6000r/min. It can also be optional selected with DONG'AN DAM16KLQ petrol engine with a rated power of 90kW and a rated rotation speed of 6000r/min. Both of the engine meets the China VI emission standard.

4.2 Carriage

The carriage adopts a closed structure and is equipped with a top cover that can be lifted in parallel. After the cover is opened, the height of the carriage reaches 1850mm, which is convenient for personnel to work inside. The bottom of the carriage is equipped with two sewage collection compartments at the front and the rear and a water intercepting tank at

the rear, which can effectively collect the sewage. There is a side door at the front of the right side of the carriage, which can facilitate the loading and unloading of trash cans. Optional trash can positioning rods can be installed to fix the trash can and prevent the trash can from moving during transportation.

4.3 Hydraulic Tailgate

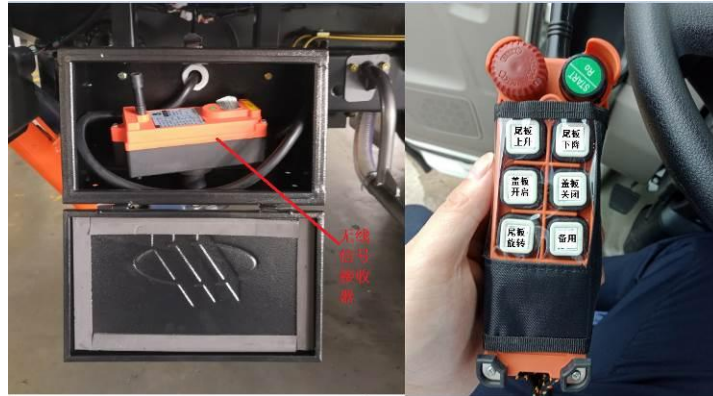
Tailgate: The rear of the truck is equipped with a self-developed electronically controlled hydraulic tailgate with a number of patented technologies. The size of the tailgate platform (length × width) is 1170 × 1800mm, which can lift two 240L trash cans or one 660L trash can at the same time. The rated lifting capacity of the tailgate is 300kg.

Tailgate hydraulic: The tailgate hydraulic system adopts vehicle-mounted hydraulic power unit, which is simple, efficient and highly reliable.

4.4 Control

The vehicle is equipped with two operation modes: fixed operation control box and rear wire control, and optional wireless remote control operation handle.





5. Main Specifications




Items		Units	Specifications	
Vehicle	Curb Weight	kg	2200	
	GVW	kg	3495	
	Dimension (L×W×H) (mm)	mm	5750×1885×2260	
	Ground Clearance	mm	171	
Superstructure	Loading Quantity	MGB120 Trash Can	24	
		MGB240 Trash Can	15	
		MGB660 Trash Can	5	
	Tailgate Weight		kg	195
	Tailgate Overturn Angle		°	90
	Lifting Cycle Time		s	≤30
	Tailgate Lifting Capacity		kg	≥300
	Tailgate Size (L×W)		mm	1170×1800
Driving Performance	Gradeability (Full-loaded)		%	--
	Top Speed		km/h	100
	Turn Radius		m	12.4
Chassis	Chassis Model		DONGFENG EQ1035SJ16QC	
	Passengers		2	
	Standard	Engine	LJ4A15Q6/WULING	


		Model/Manufacturer	
		Rated Power/Rotation Speed	83 kW/6000r/min
		Maximum Torque/Rotation Speed	147 N·m/3750-4250r/min
	Optional	Engine model/Manufacturer	DAM16KLQ/ANDONG
		Rated Power/Rotation Speed	90kW /6000 r/min
	Tires	Front	175R14LT 8PR
Rear		175R14LT 8PR	

6. Advantages

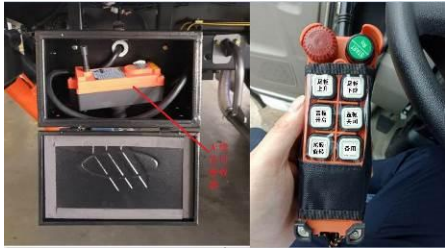

No.	Advantages	Descriptions
1	Outstanding Performance	The product adopts modular design, excellent maintenance performance, and can be equipped with wireless remote-control operating system, trash can positioning rod and other devices.
2	Good Quality	The carriage is made of Q235B high-strength and high-quality carbon steel material, and the internal beam and panel reinforcement are added to strengthen the structural design. The bottom frame adopts frame structure, which ensures the overall structural strength and rigidity. The top of the whole truck adopts high-quality spraying anti-rust treatment, and the outer side adopts three-layer spraying anti-rust treatment on the bottom, middle and surface.
3	Safe & Reliable	This product pays attention to the safety of use, and the tailgate and top cover plate are designed with multiple operation safety devices. Among them, the tailgate comes with the warning flag in line with international standards, and adopts the self-reset button operation, which is fast, reliable and safe in response.


7. Working Devices

No.	Items	Descriptions
1	Carriage	
	Functions	Used for loading trash cans.
	Structure & Characteristics	The carriage adopts a closed structure and is equipped with a top cover that can be lifted in parallel.
2	Sewage Tank	
	Structure & Characteristics	The sewage tank sinks to the bottom of the bottom plate to keep the layout flat. It is also designed with a cover, which can be removed to clean the inside of the sewage tank. The drain is controlled by a copper ball valve.
3	Right-sided Door	
	Functions	Easy access to the truck to load and unload empty trash cans.
	Structure &	Side door size (width × height) 760 × 1240. And adopts the

	Characteristics	through-type door lock of the van compartment, which is firm and durable.
4	Lift-gate	
	Functions	For loading and unloading trash cans.
	Structure & Characteristics	The platform size (length×width) is 1170×1800mm, which can lift two 240L trash cans or one 660L trash can at the same time. The rated lifting force of the tail plate is 300kg.

8. Optional Selected

No.	Items	Descriptions
1	Remote Control	
	Functions	Operate the work mechanism of the vehicle.
	Structure & Characteristics	Flexible and convenient operation.
2	Positioning Rod	
	Functions	The main function is to prevent the trash can from sliding back and forth.

	Structure & Characteristics	Simple and lightweight structure.
3	Two-speed Descending Control System for Tailgate	None
	Functions	Control the no-load, light-load and heavy-load descending speed of the tailgate, especially to reduce the heavy-load descending speed to improve safety.
	Structure & Characteristics	Improve the no-load and light-load descending speed of the tailgate, control and reduce the heavy-load descending of the tailgate, and improve work efficiency and safety.
4	Disinfection Device	
	Functions	Disinfect the trash can in the carriage.
	Structure & Characteristics	An independent and detachable spray disinfection system is added in the carriage. A diaphragm pump is used as the power to spray the system disinfectant.