

# FLM5250TDYDF6NG Multi-functional Dust Suppression Truck



## 1. Main parameter introduction

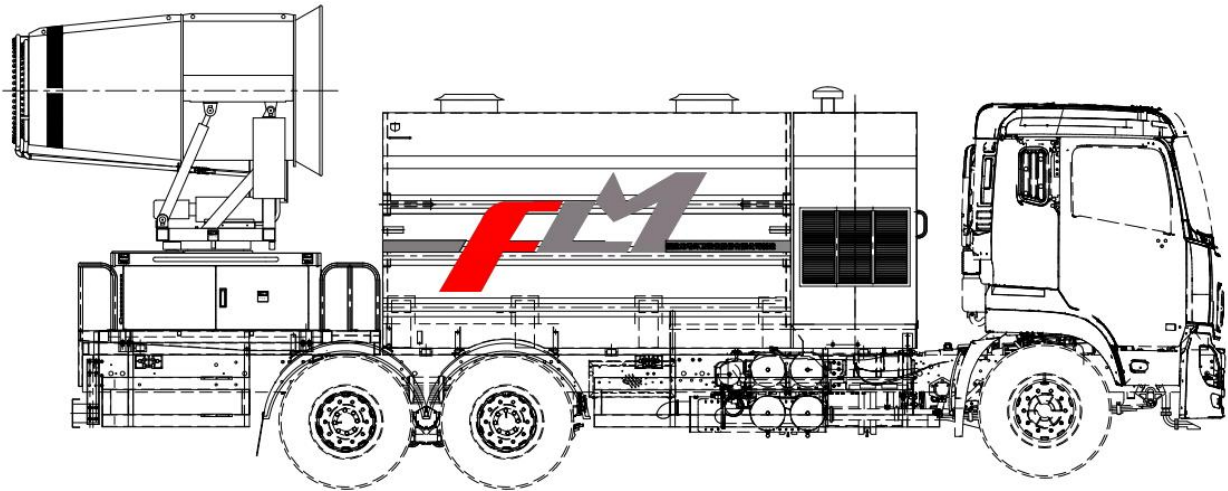
Items	Specifications
Chassis Model	Dongfeng DFV1258GP6NJ (China VI)
Chassis Engine Model	YCK11340N-60
Chassis Engine Rated Power/Rotation Speed (kW/(r/min))	250/1700
Chassis Engine Maximum Net Power/Rotation Speed (kW/(r/min))	245/1700
Wheelbase (mm)	4350+1350
Top Speed (km/h)	89
Water Tank Volume (L)	14000, 14000, 11580
Sprinkler Pump Model	65QZB-50/110N
Sprinkler Pump Flow (L/min)	833
Washing Width (m)	≥24
Sprinkling Width (m)	≥16
Air Conditioning	Warm/Cold
Optional A-type Mist Cannon (Optional 120m)	
Dimensions (L×W×H) (mm)	10420×2520×3980
GVW (kg)	25000
Curb Weight (kg)	15970
Payload (kg)	8900

Front/Rear Overhang (mm)	1480/2250
Approach/Departure Angle (°)	15/12
Generator Set Rated Power (kw)	150
Generator Set Rated Voltage (V)	400/230
Mist Cannon Model	FW-D120
Maximum Spraying Range (m)	120
Maximum Spraying Height (m)	45
Start Method	Inverter Start
Spraying Volume (L/min)	0~240
Spraying Pressure (Mpa)	2.5
Mist Cannon Pitch Angle(°)	-10 ~ 60
Mist Cannon Horizontal Rotation angle (°)	-90 ~ 90
Remote Control Distance (m)	≥75
Noise (dB)	≤90
Optional B-type Mist Cannon (Optional 100m)	
Dimensions (L×W×H) (mm)	9890×2520×3980
GVW (kg)	25000
Curb Weight (kg)	15450
Payload (kg)	9420

Front/Rear Overhang (mm)	1480/2250
Approach/Departure Angle (°)	15/12
Generator Set Rated Power (kw)	120
Generator Set Rated Voltage (V)	400/230
Mist Cannon Model	FW-D100
Maximum Spraying Range (m)	100
Maximum Spraying Height (m)	30
Start Method	Inverter start
Spraying Volume (L/min)	0 ~ 160
Spraying Pressure (Mpa)	2
Mist Cannon Pitch Angle(°)	-10 ~ 60
Mist Cannon Horizontal Rotation angle (°)	-90 ~ 90
Remote Control Distance (m)	≥75
Noise (dB)	≤88
Optional C-type Mist Cannon (Optional 60m)	
Dimensions (L×W×H) (mm)	9030×2520×3530
GVW (kg)	25000
Curb Weight (kg)	13300
Payload (kg)	11570

Front/Rear Overhang (mm)	1480/1850
Approach/Departure Angle (°)	15/12
Generator Set Rated Power (kw)	30
Generator Set Rated Voltage (V)	400/230
Mist Cannon Model	FW-D60
Maximum Spraying Range (m)	≥60
Maximum Spraying Height (m)	≥20
Start Method	Inverter start
Spraying Volume (L/min)	30 ~ 55
Spraying Pressure (Mpa)	≥2
Mist Cannon Pitch Angle(°)	-10 ~ 60
Mist Cannon Horizontal Rotation angle (°)	-90 ~ 90
Remote Control Distance (m)	≥75
Noise (dB)	≤82





## 2. Main performance description

1. The vehicle-mounted natural gas generator set is used to provide power, and the output voltage of the generator is automatically adjusted through an automatic voltage regulator without manual adjustment.
2. It adopts an environmentally friendly dust-removing mist cannon, compact structure, long-range, small fog particles, large coverage area, and can be operated manually or remotely. All tasks can be carried out in the cab through the camera.
3. The mist cannon uses micro-motors to rotate 90° left and right, and the hydraulic system can control the pitch angle up to -10°~60°. The angle change speed is fast and the work efficiency is high.
4. The mist cannon is equipped with an emergency stop button, and the operation is safe and reliable.
5. The self-priming two-stage centrifugal pump is adopted, and the water pump is driven by the power of the chassis engine; adopts the domestic first low-level

flushing mode.

6. It has a front sprinkler function, which can not only be used for daily sprinkling, humidification, and dust reduction but also can be equipped with a rear sprinkler function and a pre-wash function for road cleaning operations.

7. Equipped with left and right columnar side punches, and the nozzle can be adjusted.

8. The waterway control of the whole vehicle adopts a highly reliable, pollution-free advanced pneumatic system, which is convenient and flexible to operate.

9. Optional: The water gun located at the rear of the truck body can be operated flexibly and can be used to spray objects of various heights. It can remove some sanitary corners that are not easy to clean. It also has functions such as paving fire protection and greening water spray. The spray gun can be adjusted It is columnar or mist.

10. Equipped with a coolant switching device, which can start the engine of the chassis or generator set to heat the fuel separately. It is not necessary to start the chassis engine at the same time during fixed-point spraying operations, which reduces the cost of vehicle use.

11. The switch control valves and sprinkler system pipes are made of corrosion-resistant materials, and the tank body is made of Q235B steel plate, and the interior is treated with a special process to prevent corrosion. A stainless-steel tank is also optional.

12. The water tank is equipped with a low water level sensor alarm system, which can automatically alarm when the water level is low.

13. The chassis engine and generator sets are equipped with Yuchai natural gas engine, and the chassis engine reaches the national VI emission. The engine equipped with the generator set has reached the national III emission level. The truck is a clean energy car, and its main advantages are as follows:

① Economy: Each LNG truck saves about 20%-30% of the cost compared with diesel vehicles of the same horsepower. It does not accumulate carbon, does not dilute the oil, does not need to change the oil frequently, reduces maintenance times, reduces repair costs, extends engine life, and reduces normal wear and tear.

② Environmental protection: In LNG, the methane content is more than 90%, desulfurization is more thorough, and emissions are easily up to standard.

③ Safety: low temperature (-162°C), low pressure (below 0.62MPa), high ignition point (623°C).

④ Good driving comfort: LNG octane number is higher than 97# gasoline on the market, with good anti-knock performance, low noise, and smooth operation.

14. The sprayer fan and water pump are started by imported frequency converters, which can steplessly adjust the fan speed and the speed of the water pump. By controlling the air volume and water volume, the range and operating time of the spray system can be controlled.

15. The 200-mesh high-precision water filter is used to effectively filter impurities in



the working water and avoid nozzle blockage.

16. The air duct adopts double-wall silencing technology to effectively reduce the noise of air duct operation. The maximum noise of the whole vehicle is not more than 88 decibels.

17. The spray electric control system adopts the imported PLC as the control core, which is controlled by the touch screen in the cab and the remote control. It can easily control the mist cannon's direction, power output, working mode, etc., and make corresponding constraints on the mist cannon's action limits to ensure the safety of the equipment.

18. The air duct is controlled intelligently, which can realize the functions of automatic centering and automatic left-right cycle operation.

19. The tilting system adopts a double-cylinder hydraulic mechanism, which makes the spray equipment run more smoothly, especially in the process of driving and working. The double-cylinder structure effectively guarantees the safety of the equipment.

20. Both the fan motor and the water pump motor are controlled by imported frequency converters to ensure the energy-saving, stability, reliability, controllability, and safety of the equipment. The electric control box of the mist cannon can monitor the current, voltage, and frequency of the sprayer in real-time. All the key electrical components in the electric control box are imported originals. Imported circuit breakers can also promptly and effectively take corresponding actions to respond to

unsafe currents of the equipment to ensure the overall safety of the equipment.

21. The spray system uses a three-cylinder plunger high-pressure water pump with a maximum pressure of 2Mpa, which enhances the atomization effect during spray operation. Ensure the operating range of the mist cannon.

22. It can be used as an emergency power supply vehicle and can provide two voltages of 220V and 380V.

