

Advanced Sweeper Truck With Integrated High Pressure Washing And Sweeping Capabilities

Our Product Introduction

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Basic Information

- Place of Origin: Hubei
- Brand Name: itruck
- Certification: ccc
- Minimum Order Quantity: 1
- Price: 57800
- Packaging Details: nude with waxing
- Delivery Time: 30-35 working days
- Payment Terms: L/C, D/A, T/T, Western Union
- Supply Ability: 50 units per month



Product Specification

- Drive Model: 4x2
- Gross Weight Vehicle: 18,000 Kg
- Dumping Method: Rear Dump
- Transmission: 6 Gears
- Water Tank Capacity: 5600 Liters
- Waste Suction Tank: 7000 Liters
- Curb Weight: 11,350 Kg
- Fuel Type: Diesel
- Spare Engine: EQB160-20
- Clean Speed: 3-20 Km/h
- Clean Width: 3.5m
- Water Pressure: 10 MPa
- Water Pump Flow: 154 L/min
- Cleaning Efficiency: ≥95%
- Maximum Suction Particle 110 Mm



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Product Description

Multi-Functional Sweeper Truck Combining Sweeping and Washing

High pressure washing and sweeping truck.

1. Working principle of washing and sweeping truck

The cleaning and sweeping vehicle combines the functions of a road sweeper and a high-pressure cleaning vehicle. Generally, it comes standard with two center mounted brushes (equipped with a V-shaped high-pressure water spray rod in front of the brushes) and a center mounted suction nozzle (with a built-in high-pressure water spray rod). The washing and sweeping vehicle sprays high-pressure water from the high-pressure water spray rod during operation, which can flush stubborn attachments on the road surface. The water and garbage are sucked into the garbage bin together with the suction nozzle. Due to the high water consumption of the washing and sweeping vehicles during the operation, the water tank is relatively large. Therefore, the washing and sweeping vehicles are all modified from chassis with a wheelbase of 3800 mm or more. The washing and sweeping vehicle is equipped with a 17 meter high-pressure water flushing reel and a high-pressure water gun, making it more convenient and efficient to clean roads, sidewalks, and small advertisements.

Our Product Introduction

2. Applicable environment for washing and sweeping truck

The cleaning truck has good cleaning effect and convenient maintenance, and is suitable for mechanized cleaning, sweeping, spray dust reduction and other cleaning operations of urban roads, highways, squares, airports, docks, tunnels, bridges, separation walls, curbs and curb facades.

Main Technical specifications

Overview	
Chassis model	DFL1160BX3
Wheelbase	4700mm
Front/rear suspension	1430/2150 mm
Chassis engine	B190-33
Spare engine	EQB160-20
Chassis engine	140kw, 5900cc, 190hp
Spare engine	155 kW
Max upgrade angle	30%
Emission standard	Eu 3
Accelerating outside noise	≤84dB(A)
Max speed	103 km/h
Approach angle	20°
Departure angle	13°
Kurb weight	11350 kg
Whole weight	16000kg
Whole dimension	8580×2490×3100mm
Minimum height above ground	230 mm
High pressure clean	
Clean speed	3~20 Km/h
Clean width	3.5 m
Water pressure	10 MPa
Water pump flow	154 L/min
Clean and suction performance	
Cleaning efficiency	≥95%
Maximum suction particle size	110 mm
Clean and suction width	3.5 m
Max clean capacity	70000 m ² /h
Disc brush size	≥400 mm
Clean and suction speed	3-20 km/h
Tank capacity	
Water tank volume	9 m ³
Dust tank volume	7 m ³
Dump bin tilting angle	≥46°
Discharge door opening angle	≥85°
Hydraulic Hydraulic system	
Model	Open, electrical control

Major parts	Gear pump, hydraulic motor, hydraulic cylinder, solenoid valve
System pressure	16 MPa
Oil tank	60 L
Oil temperature	60 °C
Electrical system	
Model	DC24 V
Voltage	24 V
Battery	24 V
Sweeping devise	
Modle	Center two swabs, driven by a hydraulic motor, and the front right can be controlled independently, with a evasive reply function.
Brush diameter	850 mm
Brush angle	Tilt forward: 4-6 degrees Tilt: 4-7 degrees
Sucking plate	
Model	Double suction, hydraulic control, spring suspension.
Suction plate diameter	180 mm
Suction plate width	1800mm
High pressure water system	
Model	post pump
No.:	Germany PT36
System pressure	10 MPa
Speed	1150 r/min
Water valve model	Hydraulic pressure ball valve.
Water valve pressure	7 MPa
Spray nozzles model	High pressure washing type
Water filter	Mesh type
Water spray system	Electric diaphragm pumps, water filters, nozzles, etc.

Truck tools

No.:	ITEM	QTY	REMARK
1	Fire hose	2	
2	Fire wrench	1	
3	Water filter wrench	1	
4	High pressure water jet gun	1	
5	Spare tire	1	10.00R20
6	Manual hydraulic pump rocker	1	

Truck spare parts

No.:	ITEM	QTY	
1	Brushing	44	
2	Suction cup front rubber	1	
3	After the suction cup	1	
4	Fan belt	5	
5	Water pump belt	3	
6	Casters	4	
7	O-rings and combination washers		
8	Middle baffle rubber	1	

9	Seal	1	
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Major import configurations

No.	Item	Type	Manufacturer
1	High pressure water pump	PF36	Germany PINFL
2	Automatic unloading after valve	VB200/150	Germany PINFL
3	Flood valve	VS200-180	Germany PINFL
4	Nozzle	B1/4MEG	America spray company
5	Liquid level switch	LME200B5/24V	Italy SOFIMA
6	CPU	6ES7 214-1AD23-OXB0	Germany SIEMENS
7	Digital quantity extension module	6ES7 223-1PH22-OXA0	Germany SIEMENS
8	The central distribution box	DVEC	America COOPER
9	Stepping motor	57H41-2.7-001	America Haydn
10	Switchgear cabinet	NE-AG	Korea HIBOX
11	Switch Control		Japan IDEC
12	Proximity switch	NBB10-30GM50-E0	PEPPRL FUCHS
13	Suction pipe		NORRES
14	Hydraulic motor	BMR125	Brevini
15	Hydraulic valve	SWH-G02-C4-D2H	Radix stemonae machines

1) This car integrates the functions of a cleaning and vacuuming vehicle, and can switch the air duct to change the dust reduction mode. It does not require the use of water for dust reduction and is not limited by the distance of the water source. It is an all-terrain, all-weather road cleaning vehicle, especially suitable for cold and dusty areas.

2) The vehicle adopts a control mode of "display screen+controller+CAN bus operation panel". You can choose the rain and rain working mode. When starting and stopping the homework, the auxiliary engine speed control, suction nozzle lifting, sweeping disk retraction and other homework devices are all controlled by one key, making the operation simple.



3) The layout of the "rear wide suction nozzle". Sweep brush design, capable of removing garbage from dead corners of road steps. The suction nozzle can automatically level according to the ground conditions, with high cleaning ability and fast cleaning speed

4) The left and right scanning disks are designed to work independently or in conjunction, allowing for both independent right scanning and simultaneous left and right scanning.



5) Adopting a dedicated auxiliary engine to drive the fan and hydraulic system, ensuring continuous operation during driving and ensuring the continuity of the cleaning process.

6) The transmission between the auxiliary engine and the fan is equipped with an automatic clutch, which can ensure the automatic disengagement of the auxiliary engine from the fan during no-load starting and stopping, reduce the impact on the auxiliary engine, and improve the reliability and service life of the auxiliary engine.

7) Imported hydraulic valve assembly can ensure the stability and smoothness of the hydraulic action of the entire vehicle..



8) High quality hydraulic motor can ensure the stability and long service life of the sweeping disc.



9) Precision seamless cold bending hydraulic oil pipe, with no oxidation impurities on the inner wall, ensuring clean hydraulic oil circuit and no valve blockage.



10) High definition monitoring probes are installed on the right, left, front, and rear sides, and a high-definition LCD display is installed in the cab to monitor the effectiveness of the operation;



11) Equipped with a reverse protection device, in case of emergency reverse during operation, the intelligent control system will automatically stop the operation and retract the sweeping disc, suction cup, and side spray bar; It has protection against lifting garbage bins and overturning; Equipped with maintenance safety protection.

12) Equipped with a garbage bin lifting safety protection device, it ensures that the garbage bin cannot be lifted when the rear door is not open.

13) When the safety rod is not lowered, the intelligent system will prohibit the garbage bin from returning to its original position, which can effectively prevent accidents during maintenance.



14) Garbage bin, with high strength, can resist general corrosion and increase the service life of the box.



15) The ultra wide rear door with an opening angle greater than 90 degrees is easy to dump garbage and clean the garbage bin.

16) The tipping angle of the garbage bin is greater than 48 degrees, making it easy to dump garbage.

17) High voltage reel.



High pressure road sweeper truck picture



High pressure road sweeper truck function display



High pressure road sweeper truck bulk order



High pressure road sweeper truck loading



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