

ZISHU-2000-ATV Drainage/Water Supply Robot



一、 Overview

The ZISHU-2000-ATV type waterlogging/water supply robot is a new type of waterlogging/water supply robot that is equipped with a large displacement waterlogging/water supply pump set directly driven by an engine on the chassis of an electric drive amphibious ATV. It is developed for areas with deep and large water accumulation such as low-lying areas, underground shopping malls, and underground garages in urban waterlogging areas; It can also be used for beach water intake in remote water supply systems.

二、 System characteristics

The ZISHU-2000-ATV amphibious drainage and water supply robot has the advantages of compact vehicle size, large flow rate, and high lift. The system also has the characteristics of good trafficability and strong adaptability.

三、 System composition

The ZISHU-2000-ATV type drainage/water supply robot consists of the following parts:

1. Amphibious ATV chassis
2. Electric four-wheel drive walking system
3. Engine direct drive drainage pump set
4. Control system

四、 Main technical parameters of the system

1. ATV walking mechanism type: wheel four-wheel drive
2. ATV chassis ground clearance: 150mm
3. Drainage flow rate: 2000m³/h
4. Drainage head: 15m-20m

5. Particle passing diameter: 20mm
6. Engine power: 220 HP
7. Fuel tank capacity: 120 L
8. Walking speed: 0-6 km/h
9. ATV weight: 1600 kg
10. ATV overall dimensions: L2700mm, W2000mm,
H1500mm
11. Drainage diameter: DN300 × two
12. Maximum drainage/water supply distance: 1000
meters
13. Remote control distance: 0-200 meters

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六、 System Configuration

1. ATV Chassis

Type: Electric drive type

Total mass: 1600kg

Traveling speed: 0-6km/h

Climbing ability: 30%

Chassis ground clearance: 150mm

2. High power engine

Power: 220HP

Speed: 5500RPM

3. High head drainage pump

Flow rate: 1000m³/h

Lift: 15-20m

Type: mixed flow type

Material: Pump casing impeller high-strength aluminum alloy

Quantity: 2 units

Outlet diameter: 300mm

Interface type: DN300-3 type 3-tooth interface

4. Remote control and control system

Brand: Imported

Type: wireless+wired

Remote control distance: 200m

Function: Control ATV ground, water travel, steering, engine speed control

5. Floating body

Material: Lightweight anti-corrosion material

Structure: Abnormal structure

6. Water walking system

Function: adapt to water surface displacement for drainage needs

Steering: left and right differential steering

7. Supporting tools and equipment

No	Item	Code	QTY	Remark
1	Water hose interface wrench	DN300	2pcs	
2	Water hose protective pad	0.5M*1M	4pcs	
3	Traction rope	30M	2pcs	
4	Wheel anti slip device		2pcs	
5	Escape board	1050*300	2pcs	
6	Water pants life jacket	Big	2sets	

Product Information

ZISHU-2000-ATV Flood Relief /Water Supply Robot is manufactured by ZISHU, which is a large-displacement Flood Relief /water supply pump unit equipped with an engine on an electric-driven amphibious ATV chassis. It is mainly developed for low-lying areas in the city, underground shopping arcades, basement carparks. It also applies for long distance water relay. ZISHU-2000-ATV Flood Relief /Water Supply Robot has the advantages of small size, large water flow and high suction height. It also characterized with good drainage and strong adaptability.

Technical Specifications

- Motion type: wheeled four-wheel drive
- Drainage flow: 2000 cubic meters per hour
- Drainage head: 15-20 meters
- Engine power: 220 hp
- Walking speed: 0-6 km/h
- Weight: 1600 kg
- Dimensions: Length: 2700mm; Width: 2000mm; Height: 1500mm
- Maximum drain/water supply distance: 1000 meters
- Remote control distance: 0—200 meters

- Gradient Ability: 30°
- Remote control type: wireless + wired

* All pictures and specifications are for reference only.

* ZISHU is always ready to customize the above technical specifications for your choice.