Tracked Air-Assisted Sprayer

Model LDPB-DYJ — Instruction Manual

MODEL	LOAD CAPACITY	OVERALL SIZE
LDPB-DYJ	**500KG**	**169*90*99CM**



Please read this manual carefully before operating the machine. Improper operation may cause injury or equipment damage. Keep this manual for future reference.

1 Product Overview



The LDPB-DYJ is a tracked air-assisted sprayer for orchards, greenhouses and farmland. It combines an electric drive chassis with an air-assisted spray system, so chemical mist penetrates the canopy evenly while the operator walks behind at a safe distance.

Main applications

- Orchard pest and disease control
- Greenhouse and vegetable spraying
- Field crop protection
- Disinfection in breeding plants

Key features

✓ Rubber tracked chassis for soft and rough ground

✓ Air-assisted spray boom

✓ Air-assisted mist penetrates the canopy evenly

✓ Electric drive, quiet and zero emission

✓ Large-capacity tank for long working time

What's in the box

- Complete machine
- Battery charger
- Wireless remote control
- Instruction manual

2 Specifications

Product name	Tracked Air-Assisted Sprayer
Model number	LDPB-DYJ
Lifting height	/
Overall dimensions (L×W×H)	169*90*99CM
Board size	130*90CM
The board surface is off the ground	42CM
Load range	500KG
Electric motor	800W*2
Controller	800W
Battery	48V80A Lithium battery
Control method	Wireless remote control

All parameters are manually measured and may have slight errors. Please refer to the received product for details. Specifications can be customized — contact the seller for special requirements.

Package list

Complete machine	× 1
Battery charger	× 1
Wireless remote control	× 1
Instruction manual	× 1

Optional configuration

Customizable items	Lifting height / platform size / battery capacity / body color — contact the seller with your requirements before ordering.
Spare parts	Batteries, chargers, controllers, hydraulic seals, wheels / tracks are available from the seller.

3 Before First Use

Complete the following checks before operating a new machine. Do not skip any step.

01 Packaging inspection	Check the package for damage during transport. Unpack carefully with the machine upright.
02 Contents check	Confirm the machine, charger, remote control (if equipped), keys and accessories are complete.
03 Visual inspection	Check for deformation, loose bolts or damaged cables caused by transport. Tighten and repair before use.
04 Battery status	The battery is shipped charged at about 60–80%. Fully charge it before first use (see Chapter 7).
05 Tire / track check	Check tire pressure or track tension. Remove wires, stones or ropes wound on the wheels.
06 Function test	Test travel forward / backward, steering, lifting / lowering (or dumping) at low speed without load.

Site requirements

- Use on firm, flat ground with a slope of no more than 15°; avoid steps, ditches and obstacles.
- Keep bystanders, especially children, at least 3 meters away from the working area.
- Do not operate in heavy rain, thunderstorm or on ground covered with ice or grease.
- Ensure adequate lighting and visibility when working indoors or at night.

4 Operating Instructions

Preparation	Fill the tank with well-mixed chemical solution. Wear protective clothing, gloves and a mask.
Starting	Turn on the power, start the spray system and check the nozzle spray pattern.
Spraying	Walk the machine along the crop rows at constant speed. The air flow carries the mist into the canopy.
Adjusting	Adjust the spray volume and air assist according to crop density and wind.
After use	Empty and rinse the tank with clean water. Flush the pump and nozzles to prevent clogging.
Parking	Turn off the power and store the machine away from sunlight and frost.

> Never allow untrained persons to operate the machine. The operator must be 16 years or older and in good physical condition.

Working conditions

- Rated load: **500KG**. Overloading is strictly prohibited.
- Maximum climbing ability depends on load and battery level — always climb slowly and straight.
- Stop using the machine immediately if abnormal noise, smoke or smell occurs.

Transport & storage

- Fix the machine with straps during transport; do not lift it by the hoses, cables or guardrails.
- Store indoors in a dry, ventilated place, away from rain, direct sunlight and corrosive materials.
- For long-term storage, fully charge the battery and recharge it at least once a month.
- Lower the platform / bucket completely and turn off the main power before storage.

5 Control Method

All travel and working functions are operated with the wireless remote control, so the operator can stand clear of the machine while working.

Control method	Wireless remote control
Power switch	Main power key switch on the battery box / frame
Emergency stop	Press the red emergency stop button to cut all power instantly
Charging port	Charging socket on the machine body — see Chapter 7

6 Safety Precautions

General

- Read this manual completely before first operation.
- Do not modify the machine or its electrical system by yourself.
- Keep hands, feet and clothing away from the scissor arms, wheels and moving parts.
- Do not operate the machine under the influence of alcohol or medicine.
- Do not carry passengers unless the machine is designed with a seat.
- Keep children and untrained persons away from the machine.

Electrical & battery

- Only use the original charger and correct voltage.
- Keep the battery away from fire, water and metal objects.
- Do not touch exposed wires or the controller with wet hands.
- Turn off the power before cleaning or maintenance.
- Stop charging immediately if the battery heats abnormally or smells.
- Do not use the machine during thunderstorms.

> **WARNING:** Never exceed the rated load, and keep bystanders clear during operation. Failure to follow the safety instructions may cause serious injury.

Emergency handling

- **Machine out of control:** press the emergency stop button immediately and keep away from the machine.
- **Unexpected lifting / tipping:** keep all persons clear of the danger zone; do not try to catch the load by hand.
- **Battery smoke or fire:** cut off the main power and use a dry-powder extinguisher; never use water.
- **Injury:** stop the machine and seek medical help at once; keep the accident scene for after-sales analysis.

7 Battery & Charging

Battery configuration: **48V80A Lithium battery**. Follow the rules below to extend battery life.

- Charge the battery after each use. Avoid deep discharge below 20%.
- Charging time is typically 6–10 hours. Disconnect the charger when fully charged.
- Charge in a dry, ventilated place away from flammable materials.
- If the machine is stored for a long time, charge the battery at least once every month.
- Do not replace the battery with a different voltage or capacity without consulting the seller.

8 Maintenance Schedule

Daily	Check tire / track condition, clean the machine, check the power connector.
Weekly	Check and tighten bolts on scissor arms, wheels and guardrail; lubricate pins.
Monthly	Check hydraulic oil level and leakage; test the emergency stop and brakes.
Every 6 months	Replace hydraulic oil if contaminated; have the controller checked by a professional.

> Always turn off the main power and remove the key before any maintenance. Repairs to the hydraulic and electrical systems should be performed by qualified technicians only.

Long-term storage

- Clean the machine and park it indoors on a flat, dry surface.
- Charge the battery fully and disconnect the main power switch.
- Recharge the battery at least once a month to prevent deep discharge damage.
- Check and lubricate all pivot points before using the machine again.

9 Troubleshooting

Machine does not start	Battery low / main switch off — charge the battery, turn on the main switch.
Weak power on slopes	Low battery or overload — recharge or reduce the load.
Abnormal noise	Wheel bearing or chain dry — clean and lubricate, tighten loose bolts.
Battery drains quickly	Aging battery or charger fault — test the charger output, replace the battery if needed.

10 After-sales Service

If the problem cannot be solved with the table above, please contact the seller via AliExpress order message and provide:

- Order number and product model (LDPB-DYJ)
- Photos or a short video of the problem
- Purchase date and a description of how the problem occurred

Spare parts (batteries, chargers, hydraulic seals, controllers, wheels / tracks) are available from the seller. Do not disassemble the core components by yourself, otherwise the warranty may be void.

Warranty & support

- Core components (motor, controller, hydraulic cylinder) are covered by the seller's warranty policy — contact the seller for details.
- Free technical guidance for installation, operation and maintenance via AliExpress order message.
- Consumable parts can be purchased separately at any time.

Thank you for your purchase!

We wish this machine brings you safe and efficient work. Your feedback on AliExpress is highly appreciated.