

审核 26. 02. 27

洪扬 王靖程 刘文慰

邢可礼 马斌 王超 黄虎

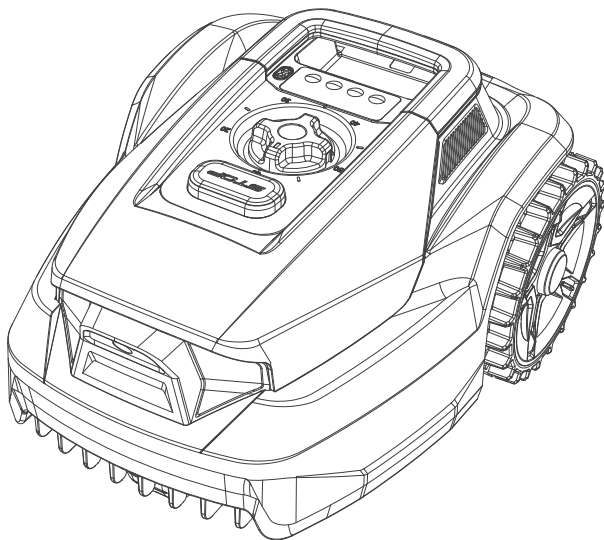
设计：孙振强

材质：封面100g铜版纸，内页80g双胶纸，全部黑白印刷

# ROBOTIC LAWNMOWER

## Instruction Manual

**TYM V3**



# CONTENT

- 1. ABOUT THIS PRODUCT .....03
- 2. SAFETY WARNINGS .....04
  - 2.1 General Safety Rules .....04
  - 2.2 Important .....05
  - 2.3 Symbols And Decals.....07
- 3. PRODUCT INTRODUCTION .....08
  - 3.1 Packing List.....08
  - 3.2 Specifications.....10
- 4. PLANNING AND PREPARATION ..... 11
  - 4.1 Precautions Before Use ..... 11
  - 4.2 Prepare And Define The Mowing Area ..... 11
  - 4.3 Install/Remove The Battery Pack .....15
- 5. DAILY OPERATIONS .....15
  - 5.1 Control Panel .....16
  - 5.2 Cutting Modes .....18
  - 5.3 Setting The Cutting Height.....19
  - 5.4 Battery Pack Operation .....20
  - 5.5 Charger Operation .....20
  - 5.6 Add Your V3 In APP .....21
- 6. MAINTENANCE .....23
  - 6.1 Cleaning The Mower .....23
  - 6.2 Replacing The Mower blades .....24
  - 6.3 Battery And Charger Maintenance .....24
  - 6.4 Storage And Transportation .....25
  - 6.5 Updating The Software.....25
- 7. WARRANTY .....26

## **1. ABOUT THIS PRODUCT**

- Thank you for choosing the V3 robotic lawnmower.
- The product is light weight and works on the lawn without damaging the lawn.
- Collection of grass is not necessary because the fine grass clippings can serve as a natural fertilizer.
- The mower can independently and randomly mow lawns without boundary lines or charging stations, and it only operates during the day.

### **ATTENTION!**

The lawnmower belongs to the category of lawn maintenance robots. Prior to use, it is necessary to clear away any debris such as stones or tree branches on the lawn. Additionally, grass taller than 6cm should be manually cleared with a grass cutter before operation.

### **WARNING!**

Read all safety instructions carefully before assembling and operating this machine. Ensure the machine has been assembled correctly and safely. Keep the instructions safe and pass them on to any subsequent user so that the information is always available.

## **2. SAFETY WARNINGS**

### **2.1 General Safety Rules**

- The purpose of the safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.

#### **WARNING!**

- Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury. Save owners manual and review frequently for continuing safe operation and instructing others who may use this tool.
- This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

## 2.2 Important

*READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE.*

- Be sure to install and operate the mower according to the instructions.
- The mower has many built-in safety sensors, but safety risks still exist. Inform your family and neighbors about the risks for accidents or hazards.
- When using the mower on a public lawn, or when your lawn is open to your neighbor or street, protect or fence the lawn, or put up a warning sign around the working area that says.

### **WARNING!**

Automatic lawnmower! Keep away from the machine! Supervise children!

- Do not repair the mower by yourself. Repair may interfere with the mower operations, resulting in serious injury and damage.
- Please contact a qualified specialist and use the approved parts and accessories.

### **WARNING!**

Never allow children, persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.

Before mowing:

- Before each mowing session, check that all parts of the mower can function normally.
- For the best mowing results, it is recommended to mow in dry weather. Mowing in the rain can make the grass stick on the product and the mower may slip. Do not mow in bad weather such as heavy rain, thunderstorm, or snow.
- Periodically inspect the area where the machine is to be used and remove all stones, sticks, wires, bones, and other foreign objects. The Limited Warranty does not cover damages caused by objects left on the lawn.
- To avoid possible damage, keep the operating mower at least 1 m (3.2 feet) away from sprinkler heads. The mower and the sprinkler should not work simultaneously. Time the mower so that it works at a different time from the sprinkler.
- Never allow children to touch the power supply unit, charger, blades, the battery compartment, or any parts with gaps such as the wheels.
- Keep away from the rotating blades! Do not put hands or feet under or near the rotating blades.
- Watch out for throwing objects! Keep a safe distance from the mower when operating.

- Do not leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.
- Do not overreach. Always keep your balance and be sure of the footing on slopes. Never run while operating the machine or its peripherals.
- Instructions on when, where, and how to inspect the machine and its peripherals, connecting cords, and extension cords for signs of damage or aging and, if permitted, how to make repairs.
- A note not to connect or touch a damaged connection line to the power supply before it is disconnected from the power supply, because damaged connection lines can lead to contact with active parts.
- Connect the machine and/or its peripheral devices only to supply circuits protected by a residual current device with a tripping current of not more than 30 mA.
- The device must not be used at altitudes higher than 2000 m.
- A note not to lean forward when operating the machine and its peripherals, and always to maintain balance and a firm footing on slopes; and always to walk and not to run.
- Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.

### **WARNING!**

If the mower makes an abnormal sound, abnormally vibrates, or signals an alarm, press the STOP button immediately.

### **WARNING!**

Do not touch moving dangerous parts before the mower is powered off.

### **WARNING!**

Do not touch moving dangerous parts before they have come to a complete standstill.

### **WARNING!**

Ensure that you always wear sturdy shoes and long trousers when operating the machine.

### **WARNING!**

Cut off the power:

- Before blocking it.
- Before the machine is tested, cleaned, or processed.
- Before cleaning foreign objects in the machine.
- When the machine starts to shake violently, please stop the machine immediately for inspection.

## 2.3 Symbols And Decals

Please study the symbols on the product and labels carefully and understand their meaning.



**⚠ WARNING!** Read instruction manual before operating the machine.



**⚠ WARNING!** Operate the disabling device before working on or lifting the machine.



**⚠ WARNING!** Keep a safe distance from the machine when operating.



**⚠ WARNING!** Do not ride on the machine.



**⚠ WARNING!** Keep hands and feet away from the blades.



**⚠** Remove (or operate) the disabling device before working on or lifting the machine. Make sure the mower is locked by the PIN code before lifting or operating.



**⚠ WARNING!** It is not permitted to dispose of this product as normal household waste. Ensure that the product is recycled in accordance with local legal requirements.



This product conforms to the applicable Ec Directives.



This product conforms to the regulations of Restriction of Hazardous Substances.



Before charging, read the instructions.



Class II appliance.



SMPS incorporating a short-circuit-proof safety isolating transformer(inherently or non-inherently).



SMPS (Switch mode power supply unit).



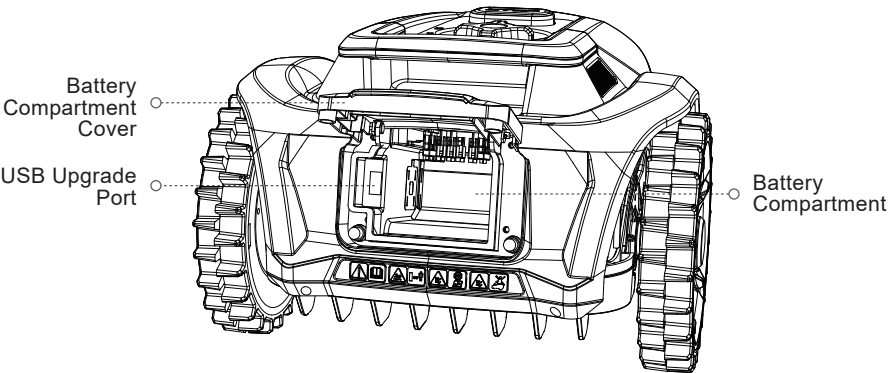
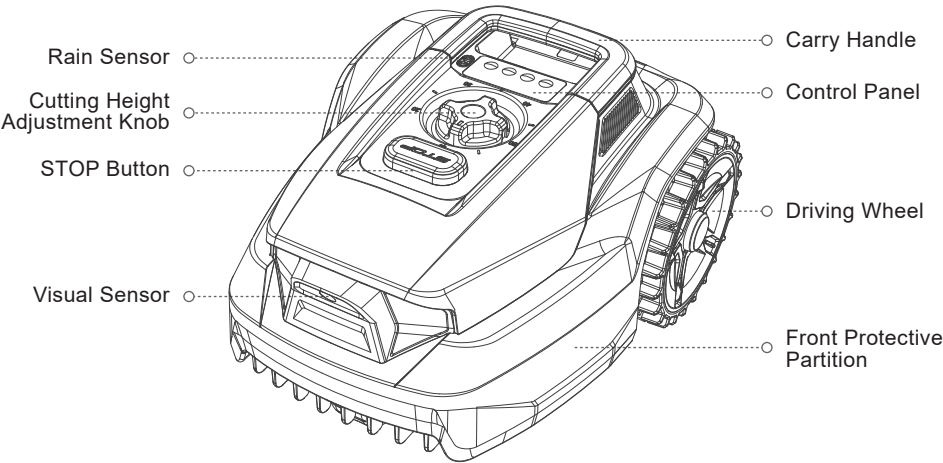
Direct current.

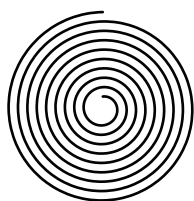
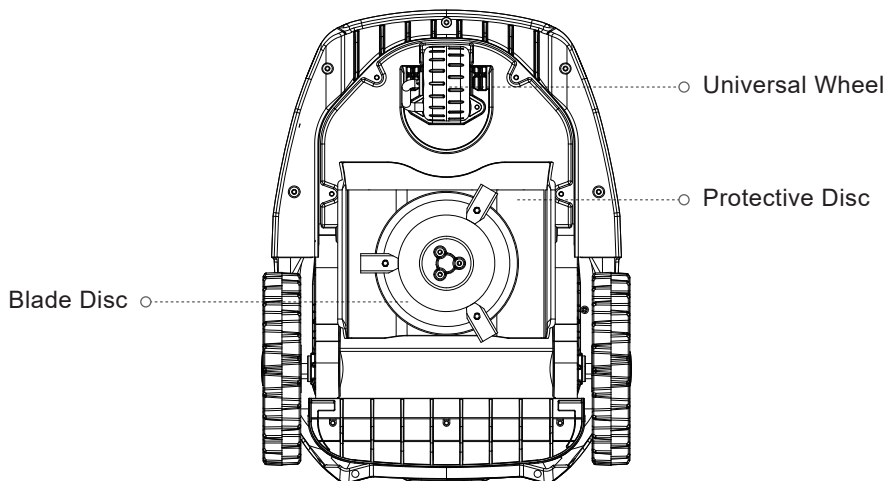


Alternating current.

# 3. PRODUCT INTRODUCTION

## 3.1 Packing List





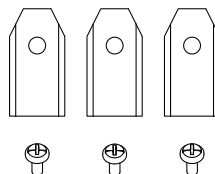
5m X 2

Magnetic Stripes<sup>①</sup>



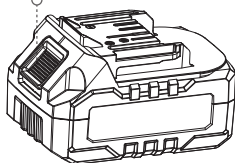
X 20

Ground Nails

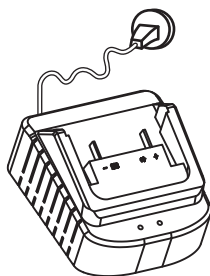


Spare Cutting Blades \* 3pcs  
& Spare M4 screws of cutting  
blade \* 3pcs

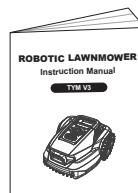
Battery Release Button



Battery Pack



Battery Charger



Instruction Manual

<sup>①</sup> Magnetic strips help delineate no-mowing zones and guide or prevent lawnmowers from moving within specific or temporary areas.

## 3.2 Specifications

| DIMENSIONS                       |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Product Dimensions               | 441*345*232 mm                                                                     |
| Packing Dimensions               | 490*380*290 mm                                                                     |
| Weight (with 4.0Ah battery)      | 6.85 kg                                                                            |
| MOWING                           |                                                                                    |
| Voltage                          | 18 V DC                                                                            |
| No Load Speed                    | 3300 r/min                                                                         |
| Cutting System                   | 3 Pivoting Cutting Blades                                                          |
| Cutting Width                    | 16 cm                                                                              |
| Cutting Height Adjustment        | 20~60 mm                                                                           |
| Maximum Slope for Cutting Area   | 35%(20°)                                                                           |
| Working Capacity                 | 100 m <sup>2</sup>                                                                 |
| Average Mowing Time              | 80 min                                                                             |
| IP-Classification                | IPX4                                                                               |
| CHARGER                          |                                                                                    |
| Charger Input                    | AC 100-240 V, 50~60 Hz, 65 W                                                       |
| Charger Output                   | 21 V DC, 2.3 A                                                                     |
| Charging Period                  | 90 mins                                                                            |
| Insulation Protection of Charger |  |
| BATTERY                          |                                                                                    |
| Rated Voltage of Battery         | 18 V DC                                                                            |
| Capacity of Battery              | 4.0 Ah                                                                             |
| Battery Type                     | Lithium-Ion                                                                        |

## 4. PLANNING AND PREPARATION

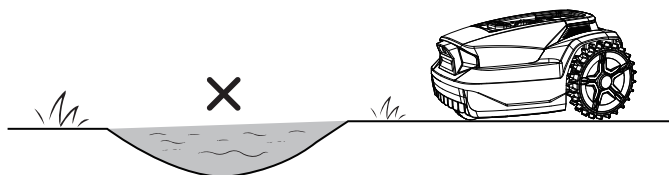
### 4.1 Precautions Before Use

- Carefully remove all contents from the product packaging.
- The mower is supplied fully assembled.
- Fully charge the battery using the included charger before first use.

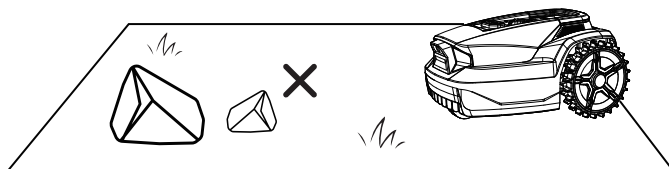
### 4.2 Prepare And Define The Mowing Area

#### 4.2.1 Prepare The Mowing Area

- The lawn surface should be as uniform as possible. Bare patches and leaves can disrupt the operation of the mower. Clear leaves at regular intervals and repair dead patches with grass seed.
- Inspect the lawn for holes or hollows. Fill them with topsoil to prevent rainwater from forming pools of water on the lawn and to prevent the mower from becoming stuck. The mower may be damaged if it is operated in pools of water.



- If there are stones on the lawn that may damage the mower, they should be removed or excluded from the working area.

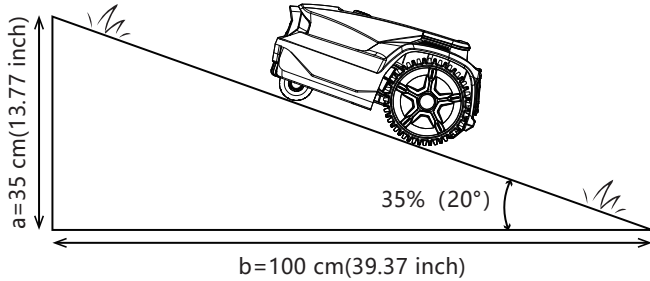


#### Note:

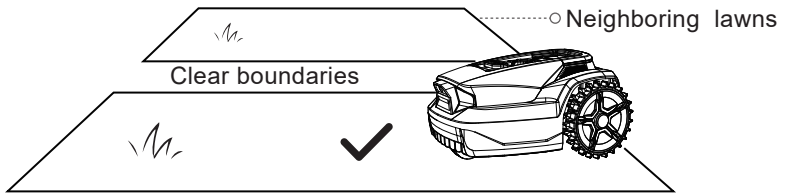
- For best performance, mow or trim grass down to 60mm before use.
- It is recommended to mow 20 mm in a single mow.
- It is recommended to mow once or twice a week during the interval period, as long or wet lawns may affect the mower's performance, so it is crucial to maintain a regular mowing frequency.

#### 4.2.2 Define The Mowing Area

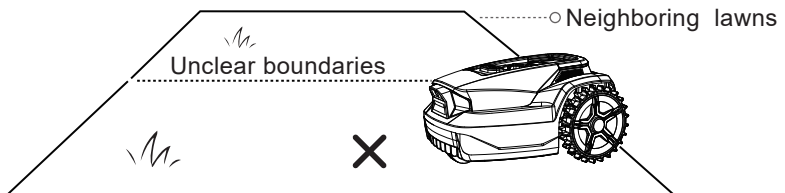
- The mower has the ability to safely climb slopes of 35%, areas with a slope above this value should be isolated using a magnetic stripe or other physical barriers. You can calculate the slope of your lawn by referring to the following figure:



- The mower is designed for small residential lawns with clearly defined boundaries, such as those bordered by concrete paths, fences, crossroads, or flowerbeds.



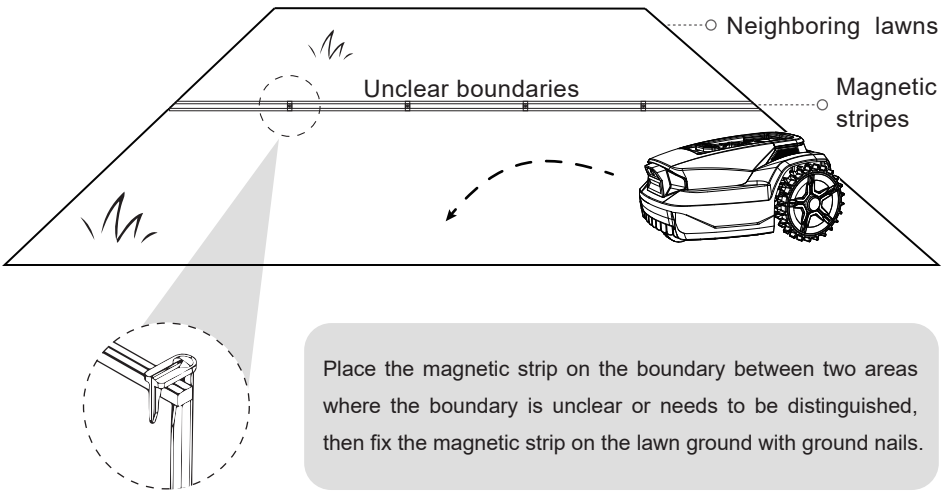
- Lawns with flush-edged swimming pools, lawns with steep slopes, steps, drainage ditches, and other hazardous areas with unclear boundaries, lawns with slopes greater than 20 degrees, lawn borders bordering neighboring lawns or public areas. In these areas with unclear boundaries the mower may be unable to work properly, and it could even cause serious damage to the mower itself.



- To enhance boundary clarity, it is recommended to use magnetic strips or other physical barriers to clearly define the mowing area.

#### 4.2.2.1 Install the magnetic strip

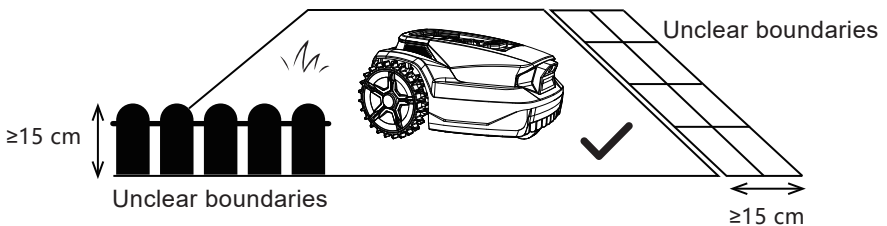
- Function of the magnetic strip: magnetic strips act as "virtual fences", restricting access to restricted areas or providing flexible zoning for the mower. No complicated wiring is required, simply temporarily laying magnetic strips allows for quick definition of restricted areas and it can prevent the mower from entering these dangerous areas, reducing equipment damage and safety incidents.



#### 4.2.2.2 Other physical barriers

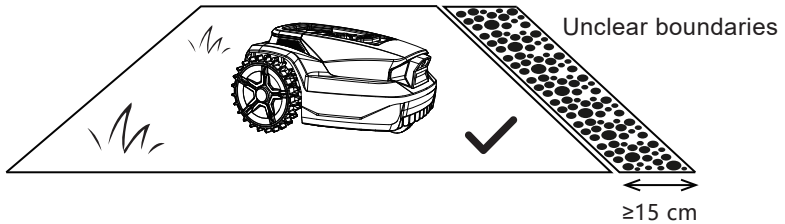
##### Paving

- The lawn requires a paved or wooden edge of at least 15 cm wide for it to stop safely and change direction.
- Paving or wooden edges less than 15 cm wide must be widened, or can be used in conjunction with a barrier. See raised barrier section below.



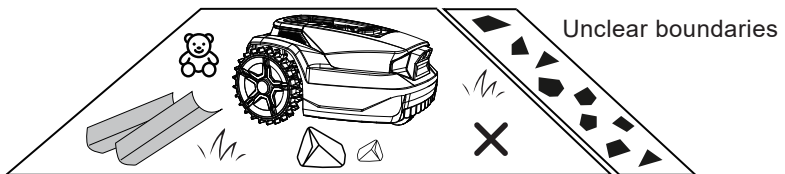
### Fine gravel

- If fine gravel or small stones are used to border the lawn, make sure the width of the border is more than 15 cm wide and has clear edges.



### Note:

- Never use gravel, stones or similar materials with irregular edges for defining the working area. Failure to provide clear edges will result in the mower leaving the mowing area and blade damage.
- Make sure your lawn is free of toys, tools, pebbles, branches, or sprinklers to reduce the mower coverage or damage the mower blades.



### 4.2.2.3 Real cases of pools and ponds

If there is a pool or pond in the mowing area, create appropriate borders to protect it.

- Install the magnetic strip.
- Raised barriers higher than 20 cm.
- Edge paving, gravel, boards wider than 70 cm.

The illustration shows a correctly defined working area for the correct functioning of the mower.

