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› [NOVABOT N1000 Robot Lawn Mower Instruction Manual](#)

NOVABOT N1000

NOVABOT N1000 Robot Lawn Mower

Perimeter Wire Free RTK, TOF, Vision Robotic Lawnmower

Model: N1000 | Brand: NOVABOT

1. INTRODUCTION

The NOVABOT N1000 is a revolutionary robot lawn mower designed for precision and autonomous lawn care. Utilizing advanced RTK-GPS, TOF sensors, and Vision enhancement, it offers wire-free operation, AI-assisted mapping, virtual boundary creation, and multi-zone management. This manual provides detailed instructions for setting up, operating, and maintaining your NOVABOT N1000 to ensure a flawlessly trimmed lawn.



Figure 1: NOVABOT N1000 Robot Lawn Mower

2. WHAT'S IN THE BOX

Upon unboxing your NOVABOT N1000, verify that all components are present. The package includes the main robot unit, charging station, RTK receiver, power adapter, user manual, and various accessories for installation and maintenance.

Your browser does not support the video tag.

Video 1: NOVABOT Robot Lawn Mower Unboxing and Components Overview (Duration: 5:16)

- NOVABOT N1000 Robot Unit
- Charging Station (Base)
- RTK Receiver with Cable
- Power Adapter/Charging Cable
- User Manual
- Ground Stakes for Charging Station and RTK Receiver
- Replacement Blades and Screws
- Canopy (for charging station protection)

NO BOUNDARIES, NO WORRIES!

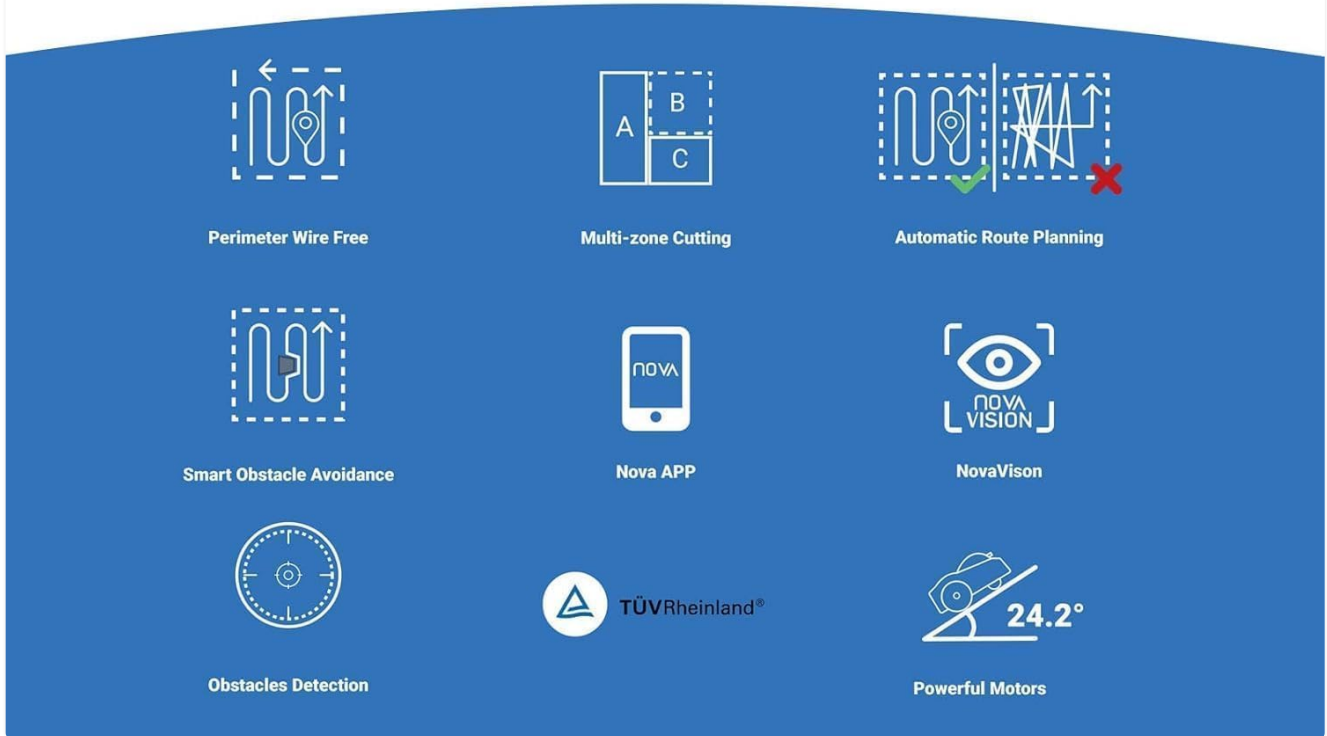


Figure 2: Key Features and Components Overview

3. SETUP

3.1 Charging Station Placement

Select a suitable location for the charging station. It should be on a flat, level surface with access to a power outlet and clear line of sight to the sky for optimal RTK signal reception. Avoid placing it near large metal objects or dense foliage that could interfere with signals.

3.2 RTK Receiver Installation

Install the RTK receiver in an elevated position with an unobstructed view of the sky. Connect it to the charging station using the provided cable. This receiver is crucial for the mower's centimeter-level positioning accuracy.

RTK+TOF+VISION

No Perimeter Wire



Figure 3: RTK + TOF + Vision Technology for Wire-Free Operation

3.3 Initial Charging

Place the NOVABOT N1000 onto the charging station. Ensure it makes proper contact with the charging pins. Allow the robot to fully charge before its first operation. The app will indicate the charging status.

3.4 App Connection & Mapping

Download the NOVABOT app on your smartphone. Follow the in-app instructions to connect to your robot. Use the app to create a virtual boundary for your lawn by walking the perimeter with the robot or by manually drawing it on the map. Define any no-go zones or multi-zone areas as needed.



Figure 4: Creating Virtual Boundaries via App

Multi-Zone & No-go Zone Management



Efficient and
Accurate Mapping

Figure 5: Multi-Zone & No-Go Zone Management

4. OPERATING INSTRUCTIONS

4.1 Starting a Mowing Session

Once the setup is complete and boundaries are defined, you can initiate a mowing session through the NOVABOT app. Schedule mowing times, directions, and heights according to your preferences. The robot will automatically follow the planned route.



Figure 6: Control From App

4.2 Smart Obstacle Avoidance

The NOVABOT N1000 uses a high-definition camera and TOF sensor for precise obstacle avoidance. It can detect and navigate around various objects such as fences, walls, pets, trees, and vehicles, ensuring safe and efficient mowing.

Identify Various Types Of Obstacles



Systematic
Mowing Pattern

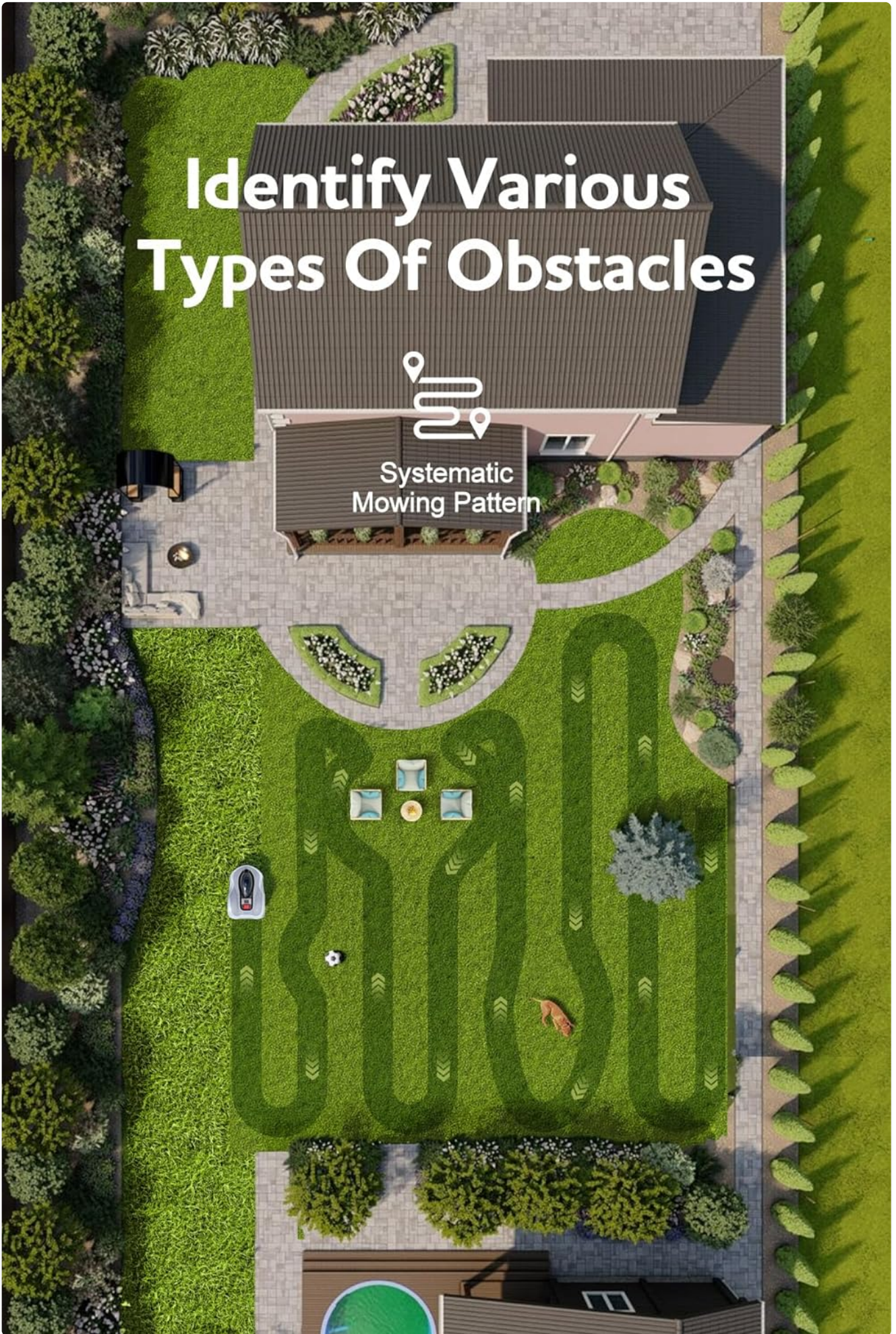
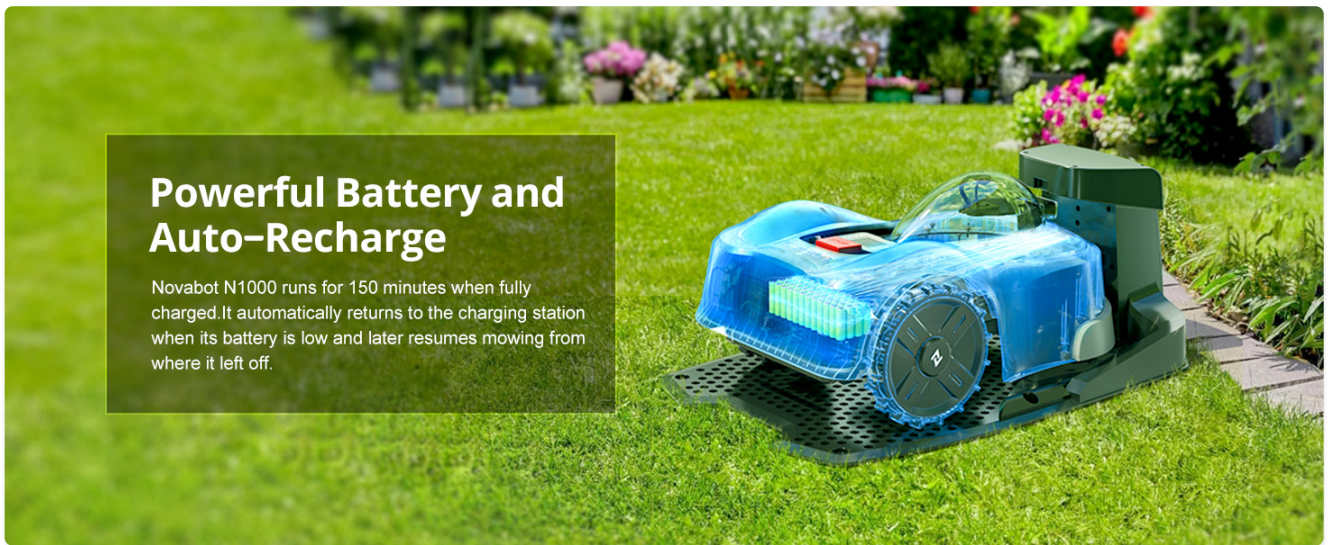


Figure 7: Identifying Various Types of Obstacles



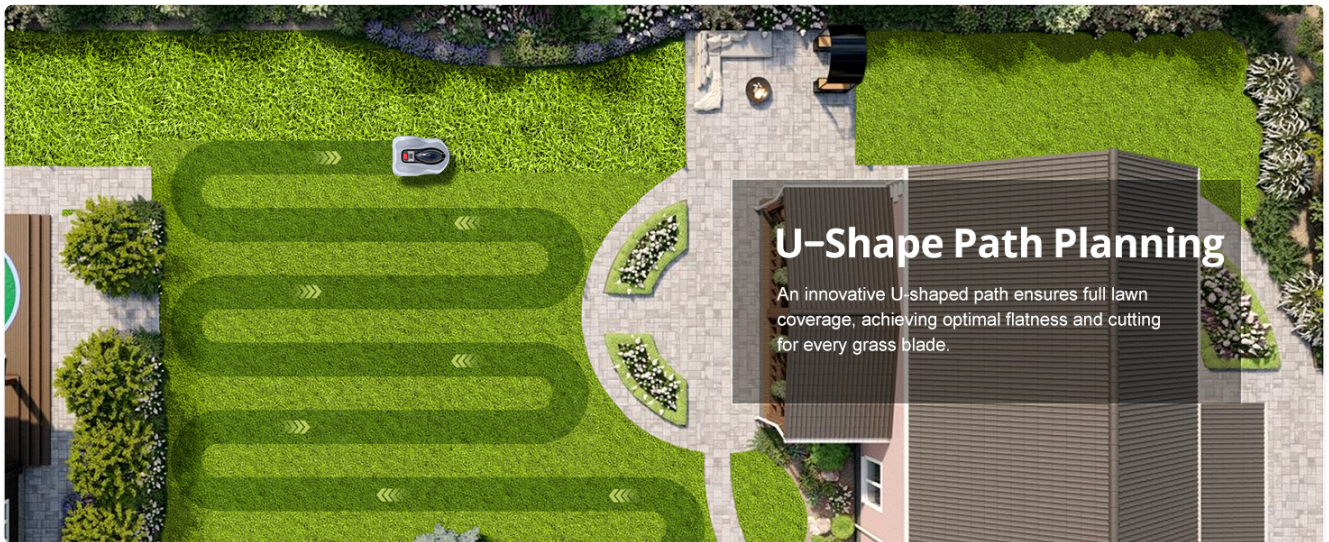
Powerful Battery and Auto-Recharge

Novabot N1000 runs for 150 minutes when fully charged. It automatically returns to the charging station when its battery is low and later resumes mowing from where it left off.

Figure 8: Smart Obstacle Avoidance in action

4.3 Auto-Recharge Function

When the battery runs low, the NOVABOT N1000 will automatically return to its charging station. Once fully charged, it will resume mowing from where it left off, ensuring complete lawn coverage.



U-Shape Path Planning

An innovative U-shaped path ensures full lawn coverage, achieving optimal flatness and cutting for every grass blade.

Figure 9: Powerful Battery and Auto-Recharge

4.4 Watchdog Mode

Activate the 'Guard Dog' or 'Watchdog Mode' via the app. In this mode, the robot will patrol your yard when you're away, deterring intruders and providing alerts for unusual movement.



Figure 10: Watchdog Mode for Security

5. MAINTENANCE

5.1 Cleaning

The NOVABOT N1000 has an IPX5 waterproof body, making it easy to clean. Use a garden hose to spray off grass clippings and debris from the underside and wheels. Ensure the charging pile (IPX4) is not directly sprayed.

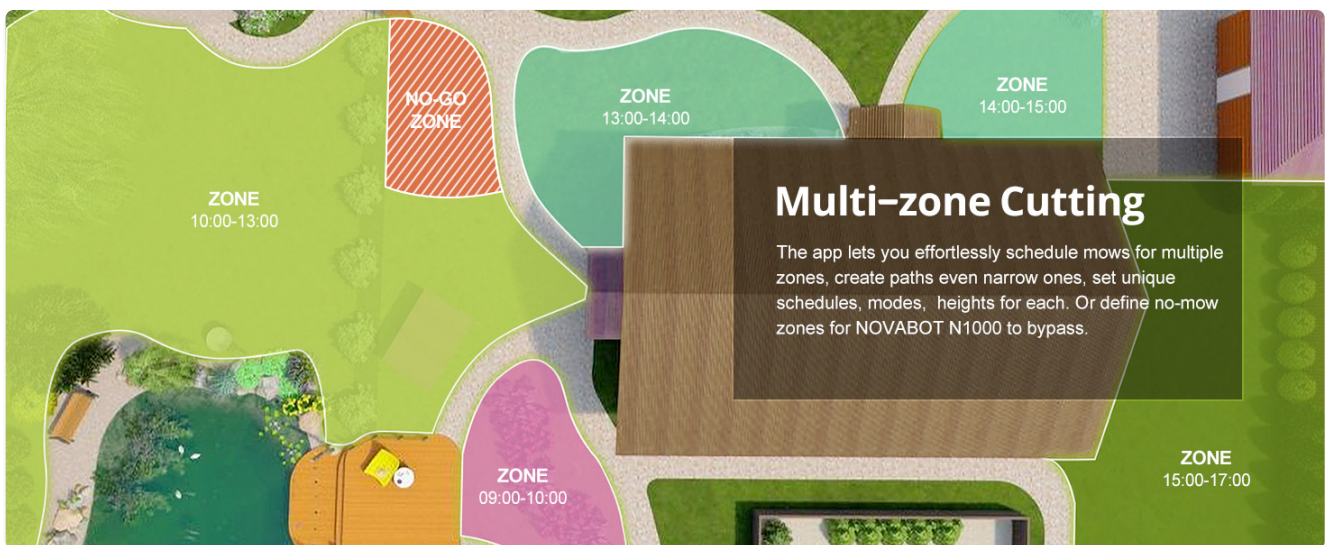


Figure 11: Easy to Clean and Maintain

5.2 Blade Replacement

Regularly inspect the blades for wear and tear. Replace dull or damaged blades using the provided replacement set and screws to ensure optimal cutting performance. Refer to the user manual for detailed instructions on blade replacement.

6. TROUBLESHOOTING

If you encounter any issues with your NOVABOT N1000, refer to the following common troubleshooting tips:

- **Robot not charging:** Ensure the charging station is powered on and the robot is correctly docked. Clean the charging contacts on both the robot and the station.
- **Mower not following boundary:** Verify that the virtual boundary is correctly set in the app and the RTK signal

is strong. Check for any obstructions blocking the RTK receiver's view.

- **Frequent stops/errors:** Clean the sensors (camera, TOF) on the robot. Check for excessive grass buildup under the mowing deck.
- **Anti-theft alarm:** If the robot is lifted or moved unusually, an alarm will sound, and it will self-lock. Unlock it by entering your PIN code in the app.

For further assistance, please contact NOVABOT customer support.



Figure 12: Need Help? Contact Support

7. SPECIFICATIONS

Feature	Specification
Brand	NOVABOT
Model Number	N1000
Power Source	Battery Powered
Material	ASA
Color	Silver
Mowing Area	Up to 0.75 Acres (3000)
Item Weight	28 Pounds
Cutting Width	8.6 Inches
Cutting Height	0.8"-3.5"
Operation Mode	Automatic
Product Dimensions	25.86"D x 18.38"W x 12.52"H
Waterproof Rating (Robot)	IPX5
Waterproof Rating (Charging Pile)	IPX4
Noise Level	Below 67dB
Max Slope Capability	45% (24°)

8. WARRANTY & SUPPORT

NOVABOT products are designed for high quality performance and durability. This product is TÜV certified, ensuring

quality, security, and sustainability. For warranty information and technical support, please refer to the official NOVABOT website or contact their customer service team directly. Contact details can typically be found in the product packaging or on the official brand website.



Figure 13: TÜV Rheinland Certified