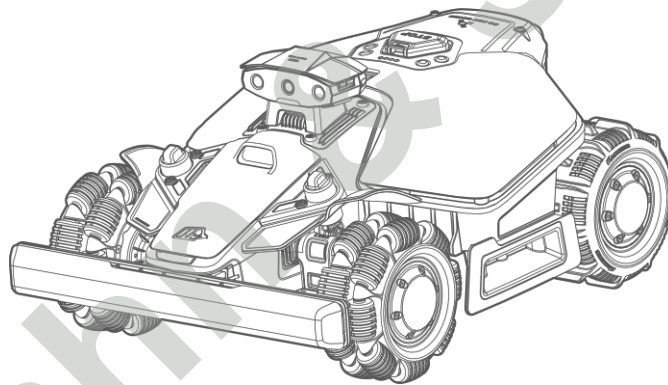


EN

LUBA mini 2 AWD 1000

INSTRUCTIONS



Version 01/2026



MAMMOTION

Hahn & Sohn



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Unless expressly stated otherwise, this manual serves solely as a user guide and any statements or information contained herein do not constitute any form of warranty.

Intended use

The Mammotion mower is designed for domestic lawn care and is not intended for commercial use.

Hahn & Sohn

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1 Safety instructions

IMPORTANT

BEFORE USING THE ROBOT, PLEASE READ THIS MANUAL CAREFULLY FROM COVER TO COVER. KEEP THIS MANUAL FOR FUTURE REFERENCE AND DO NOT THROW IT AWAY

1.1 General safety instructions

1. Before using the robot, please read and understand all instructions carefully.
2. Before using the mower for the first time, cut the grass to a maximum height of 10 cm.
3. Only use genuine parts and accessories recommended by Mammotion with the robot.
4. Never allow children, persons with reduced physical, sensory or mental capabilities, or a lack of experience and knowledge, or persons who are not familiar with these instructions, to use the robot. The age of the operator may be restricted by local regulations.
5. DO NOT allow children to move around near the robot or play with it whilst it is in operation.
6. DO NOT use the robot in areas where people are unaware of its presence.
7. When manually controlling the robot using the Mammotion app, always walk – never run. Take care on slopes and maintain good posture and balance. When manually controlling the robot, you assume full responsibility for it.
8. Do not sit or stand on the robot, the adapter, the cables or the charging base. This may cause damage and void the warranty.
9. DO NOT touch moving parts such as the mowing disc, blades and wheels until all movement has completely stopped.
10. If you are using the robot in public areas, place warning signs around the working area with the following text: “Warning! Automatic lawn mower! Keep away from the robot! Supervise children!”
11. NEVER leave the robot running unattended if there are pets, children or people nearby.
12. Wear sturdy footwear and long trousers when the robot is in operation.
13. To prevent damage to the robot and accidents involving vehicles and people, do not set the working areas or navigation paths across public roads or public thoroughfares.
14. DO NOT connect to or touch a damaged cable until it has been disconnected from the mains socket. If the cable becomes damaged during operation, disconnect the plug from the socket. A worn or damaged cable increases the risk of electric shock and should be replaced immediately. Contact an authorised service centre without delay.
15. Keep extension cables at a safe distance from moving parts of the robot that could cause injury, such as the cutting blades, to prevent damage to the cables and the robot.

16. DO NOT MODIFY the robot yourself. Modifications could disrupt its operation, lead to serious injury or damage, or result in the warranty being voided. Use only genuine parts and accessories approved by Mammoth.
17. If the robot makes an unusual noise or triggers an alarm, press the STOP button immediately.
18. Check regularly (once a week) that all parts of the robot are functioning normally.
19. Before carrying out maintenance, cleaning or inspecting the robot, switch it off and remove the key. If the robot vibrates abnormally, check that the is not damaged before restarting it. Do not use the robot if any of its parts are damaged or faulty.
20. Do not touch the cutting blades and discs whilst the robot is in operation. When handling the cutting blades and discs, always switch off the robot first, remove the key and always wear protective gloves.
21. The images used in this manual are for illustrative purposes only. Please refer to the actual robot.
22. If you have a swimming pool in your garden, ensure that the robot mows the grass at a sufficient distance from the edge of the pool (at least 50 cm). The product has an IPX6 water resistance rating when in operation, but it is not completely waterproof.
23. IPX6 water resistance applies when the robot is in operation.
24. The user is responsible for any accidents or hazards that may occur to other persons on their property.
25. The robot and accessories may only be repaired and modified by an authorised service centre or a qualified person who has been trained at an authorised service centre.
26. Operating and storage temperature: 0°C – 40°C. Operating temperature for charging: 5°C – 40°C.

1.2 Safety instructions for the charging base

1. DO NOT PLACE the charging base in locations where people might trip over it.
2. DO NOT PLACE the charging base in areas where there is a risk of standing water.
3. Only use the original charging base to charge the robot. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery. If electrolyte comes into contact with your eyes, rinse them with water or a neutralising agent and seek medical attention if the corrosive liquid enters your eyes.
4. Keep the charging base and accessories at least 60 cm away from flammable materials. Malfunctions or overheating may pose a fire risk.
5. Always use a residual current device (RCD) with a maximum tripping current of 30 mA when connecting the power supply to a socket.

1.3 Safety instructions for mowing

1. Do not reach with your hands or feet near the mowing blades. Do not reach under the robot or touch it whilst it is switched on.
2. Do not lift or move the robot whilst it is switched on.
3. Before starting, remove any stones, branches, tools, toys or other objects from the lawn to prevent damage to the blades.
4. DO NOT PLACE any objects on the robot or the charging base.
5. DO NOT use the robot if the STOP button is not working.
6. Prevent collisions with people or animals. If someone or something gets in its way, stop the robot immediately.
7. Always switch the robot off when not in use.
8. DO NOT use the robot at the same time as pop-up sprinklers, and avoid placing the navigation paths where sprinklers are installed.
9. DO NOT use the robot in standing water or during heavy rain.

1.4 Battery safety instructions

Lithium-ion batteries may explode or catch fire if mishandled. Do not disassemble, short-circuit, expose to water, fire or high temperatures. Handle with care and avoid any mechanical or electrical damage. Store batteries out of direct sunlight.

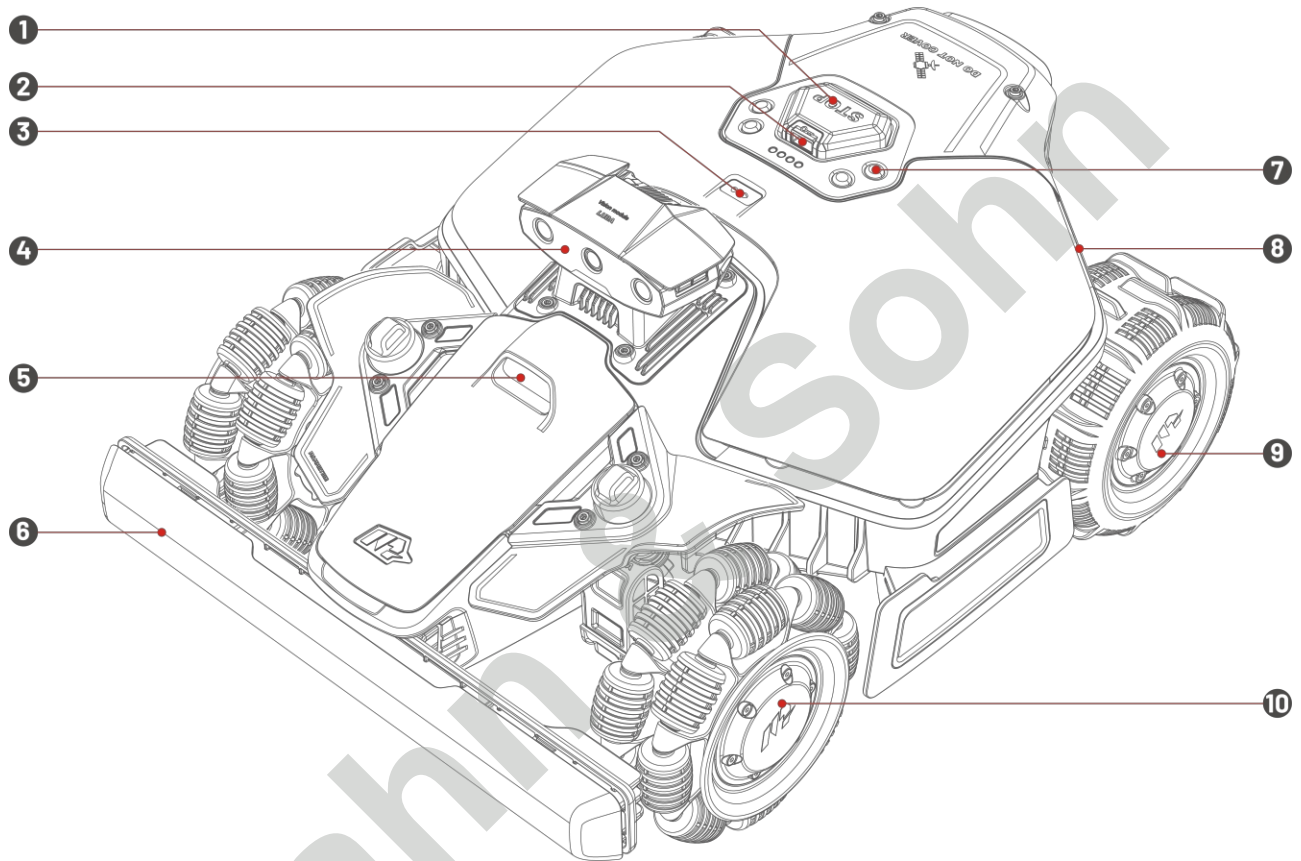
1. Use only the original charging cradle and power adapter. Incompatible chargers may cause electric shock or overheating.
2. DO NOT attempt to repair or modify the batteries. Attempts to repair them may result in serious injury due to explosion or electric shock. In the event of a leak, the released electrolytes are corrosive and toxic.

2 Instructions

2.1 About the mower

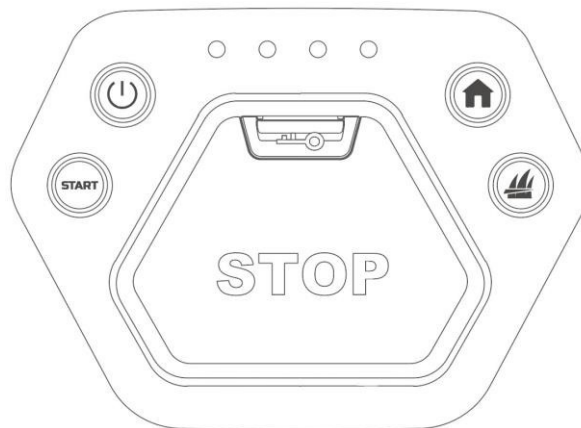
Images are for illustrative purposes only.

Top view



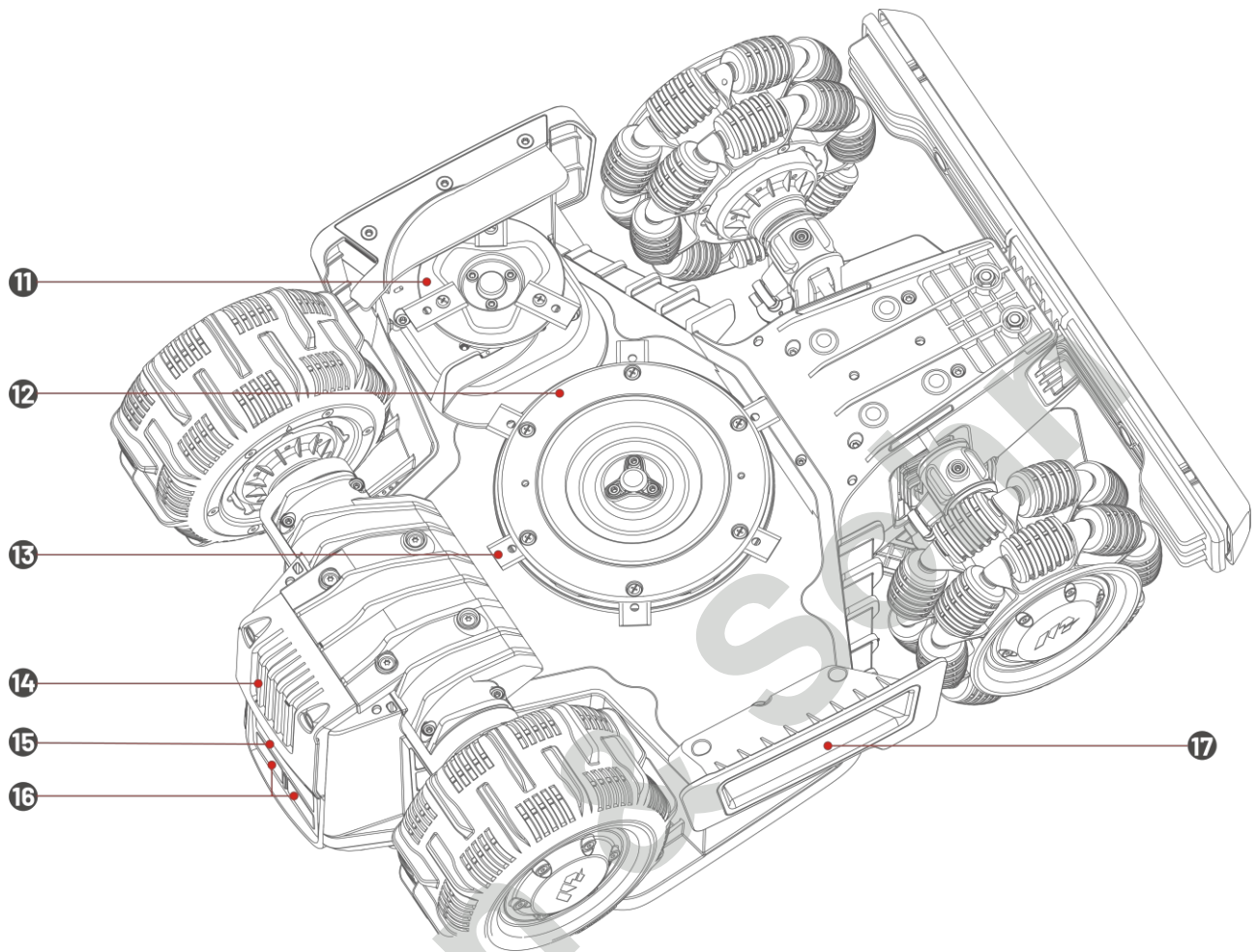
1. STOP button
2. Safety key
3. Rain sensor
4. Vision module
5. Light
6. Bumper
7. Indicator lights
8. Side LED
9. Wheel
10. Omni wheel

Indicator lights



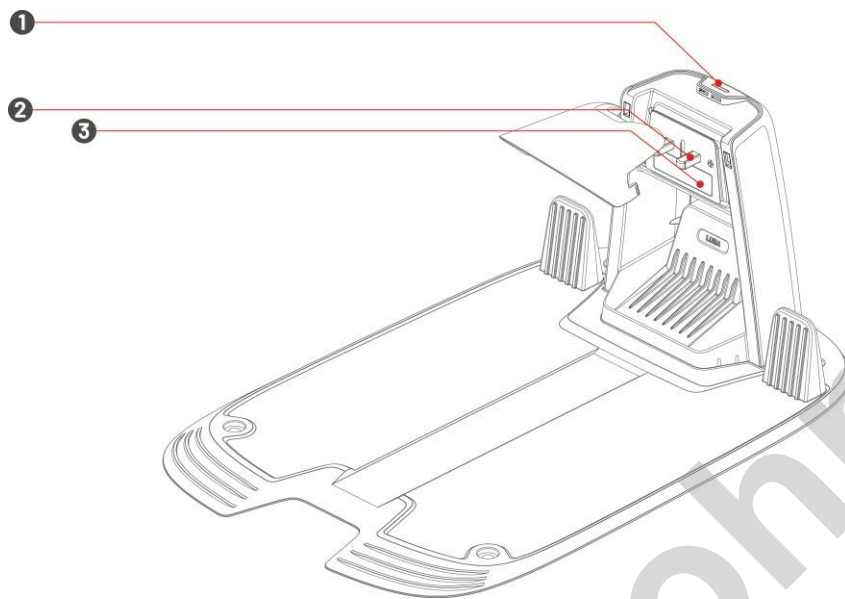
Button	Description
	Press and hold to switch the mower on/off.
	Press twice to unlock the robot only after an emergency stop.
	In an emergency, press the STOP button.
	Press twice to lower the mower discs to their lowest position for cleaning.
>	<ul style="list-style-type: none"> ● Press sequentially to resume mowing. ● Press and hold '' for 5 seconds, then press '' to activate DropMow. DropMow is used for one-off mowing of unmapped lawns or to trim the lawn outside mapped areas.
>	Press repeatedly to initiate the return to the charging base.
	Battery status (all lights on – battery is fully charged) .

View from below



- 11. Side mowing blade
- 12. Mowing disc
- 13. Cutting blade
- 14. Removable battery
- 15. IR receiver
- 16. Charging contact
- 17. Handle

Charging dock



1. LED indicator
2. Charging contact
3. IR transmitter

2.2 LED indicator lights

Robot

LED	Status	Description
Side LED	Red is lit	The robot is working correctly.
	Red flashing	<ul style="list-style-type: none"> ● OTA update. ● The robot is charging.
	Red is flashing slowly	<ul style="list-style-type: none"> ● STOP button activated. ● Battery low. ● The robot is stuck. ● The key is not inserted correctly in the mower. ● The robot has been lifted, tilted or overturned.


	Red light flashing rapidly	<ul style="list-style-type: none"> • The robot is showing an error (see the app for more details). • The robot update has failed.
	Not lit	<ul style="list-style-type: none"> ● The robot is switched off. ● The robot is in standby mode. ● The side LEDs are turned off in the app. ● The robot is in manual mode but is currently inactive.







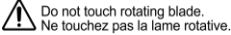




Charging base

LED	Status	Description
LED	Green flashing	The robot is docked in its charging station.
	The green light is on	The robot is not parked in the charging base.
	Red light	Charging base error.
	Not lit	Not connected to the mains.

2.3 Symbols used

You will find these symbols on the product. Please study them carefully:

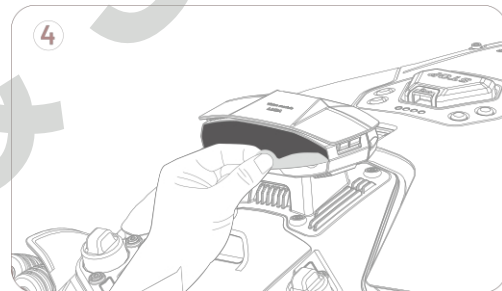
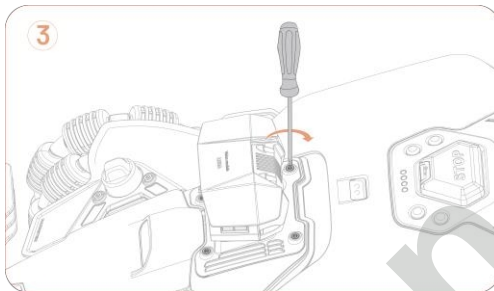
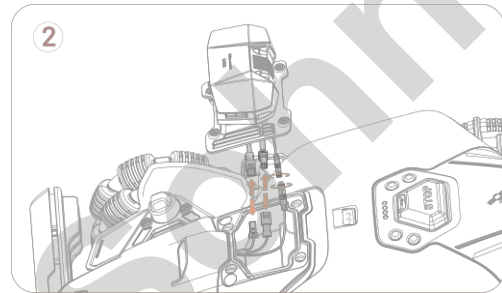
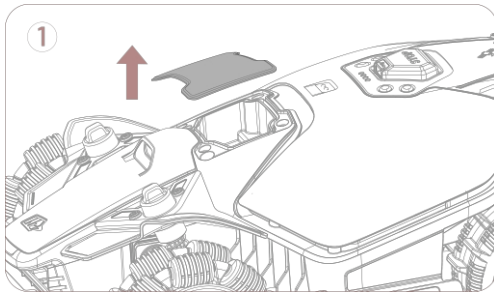
 TS-A081-2703002 ADS-81EJ-27-5	Use the detachable power adapter TS-A081-2703002/ADS-81EJ-27-5.
	This product complies with the applicable CE directives. BLAKAR trading s.r.o. declares that the specified product is in conformity with and complies with Directive 2014/53/EU. Full version of the declaration of The agreement is available at www.blakar.cz/prohlaseni-o-shode
Made in China	This product is manufactured in China.
	This product must not be disposed of as ordinary household waste. Ensure the product is disposed of in an environmentally friendly manner in accordance with local regulations. For more information, visit www.asekol.cz
	This product can be recycled. For more information, visit www.ekokom.cz

	<p>The packaging of this product should not be exposed to moisture or water.</p>
	<p>The packaging of this product should not be covered.</p>
	<p>Do not tip over.</p>
	<p>This product is fragile.</p>
	<p>Do not stand, sit or climb on the packaging of this product, the product itself or its accessories.</p>
	<p>Class III appliance.</p>
 <p>Do not touch rotating blade. Ne touchez pas la lame rotative.</p>	<p>Warning – do not touch the moving parts of the product or the cutting blades with your hands or feet whilst they are in motion.</p>
	<p>WARNING: Read the entire instructions carefully before using the product.</p>
	<p>WARNING: Risk of objects being ejected towards the body. Keep a safe distance from the product during operation.</p>
	<p>WARNING: Do not place your hands or feet under the product when it is switched on or running. When handling or lifting the product, switch it off first and remove the key.</p>
	<p>WARNING: Never ride on the product. Never place your hands or feet near the rotating blades or under the product when it is switched on.</p>

3 Getting started

3.1 Installing the Vision module

1. Remove the cover.
2. Connect the Vision module's connectors so that they match the corresponding connectors in the mower in terms of both colour and shape.
3. Arrange the cables neatly, then secure the Vision module in place and tighten the screws using a hex key.
4. Peel the sticker off the front of the Vision module.



3.2 Installing the charging base

Choose a suitable location for the charging base

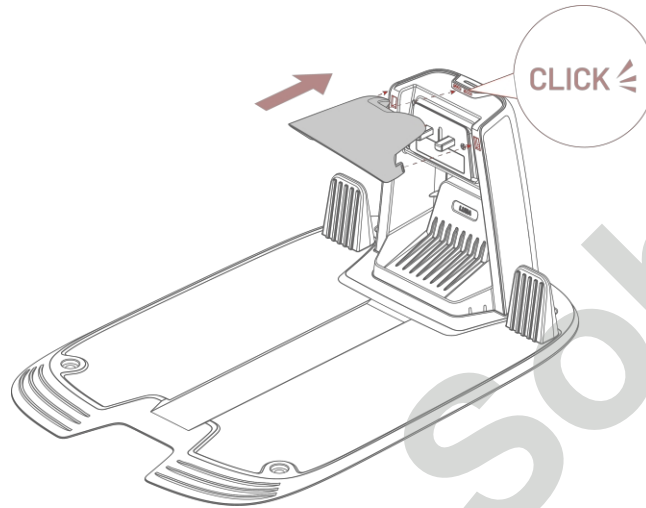
The charging base is where your robot parks and recharges. To ensure trouble-free operation, make sure the installation site meets the following conditions:

- **Flat surface:** The area must be free of bumps, slopes or stones.
- **Nearby power source:** An accessible electrical socket is required to power the charging base.
- **Clear surroundings:** There must be no obstacles (such as trees, houses or other objects) within 1 metre to the left, right and in front of the charging base.
- **Good lighting:** Good lighting helps the robot navigate.

- **Near the lawn:** For accurate positioning, ensure that the distance between the charging base and the robot does not exceed 60 m during the mapping process. If you have more than one lawn area, it is recommended to place the charging base between them for optimal performance.

Assembling the charging base

1. Attach the canopy to the top of the charging base.

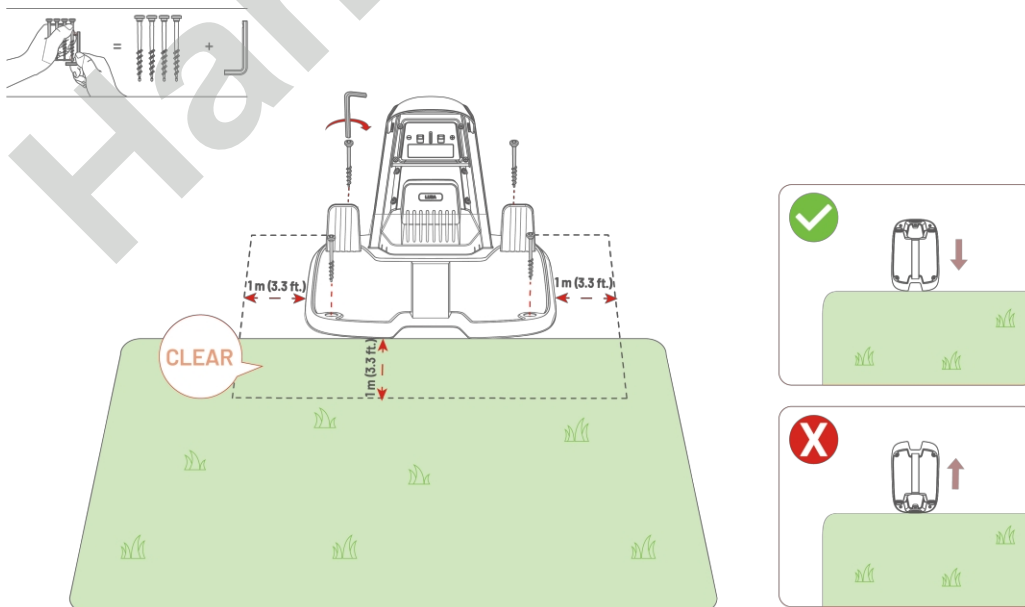


2. Use the four pegs provided to secure the charging base in the chosen location. Ensure that the charging base faces the lawn with its entry ramp.

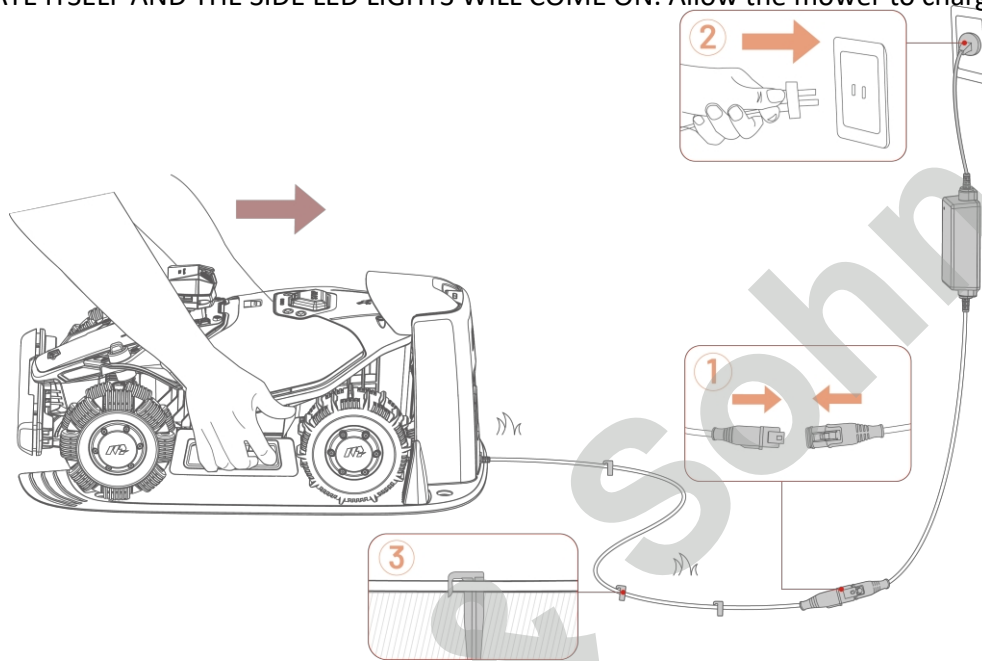
NOTE



If the charging base is installed on a concrete surface, secure it with expansion bolts (not included).



3. Connect the power cable (longer cable) to the power adapter. Place the adapter in a dry, well-ventilated place.
4. Plug the power adapter into a mains socket. Secure the cable to the floor using the cable pegs provided.
5. BEFORE FIRST USE, MANUALLY PLACE THE MOWER INTO THE CONNECTED CHARGING STATION. DO NOT SWITCH IT ON. AS SOON AS THE MOWER CONNECTS TO THE CHARGING STATION'S CONTACTS, IT WILL ACTIVATE ITSELF AND THE SIDE LED LIGHTS WILL COME ON. Allow the mower to charge fully.



NOTE



Before using the mower for the first time, please charge it fully and update the software.

3.3 Download the Mammotion app

Scan the QR code and download the Mammotion app for free from the Android or Apple Store, or search for it in these stores.





Once the app is installed, please register and log in. While using the app, you may be asked to grant access to Bluetooth, location and the local network where necessary. For optimal performance, we recommend enabling the above permissions. For further information, please refer to our Privacy Policy (in the app, go to **Profile > About Mammotion > Privacy Policy**).

If you wish to log in using a third-party account, click on  or  on the login page and continue.

Trademark notice:



The “” icon is a trademark of Google LLC. The “” icon is a trademark of Apple Inc. All trademarks mentioned in this guide are the property of their respective owners.

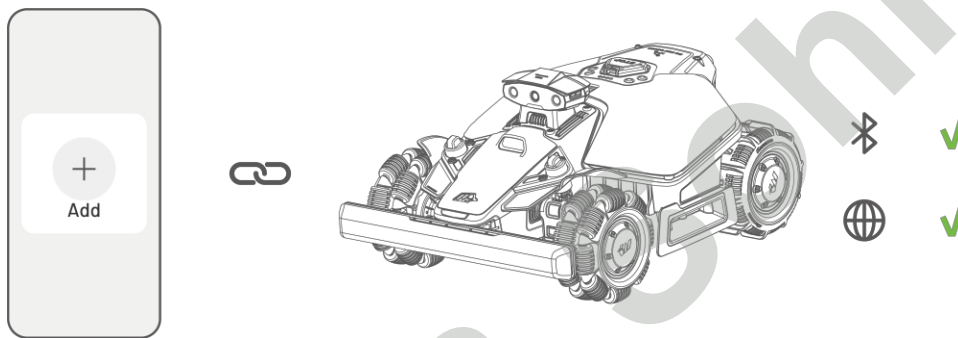
3.4 Mower settings

NOTE



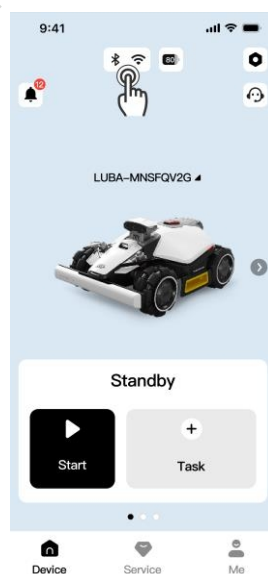
- Keep your phone within 3 metres of the robot.
- If you are using 4G mobile data, you can skip the Wi-Fi setup.

1. Tap + to add the robot.
2. Follow the on-screen instructions to connect the robot to Wi-Fi.
3. Follow the on-screen instructions to activate the built-in SIM card.
4. Update the mower to the latest version before use.



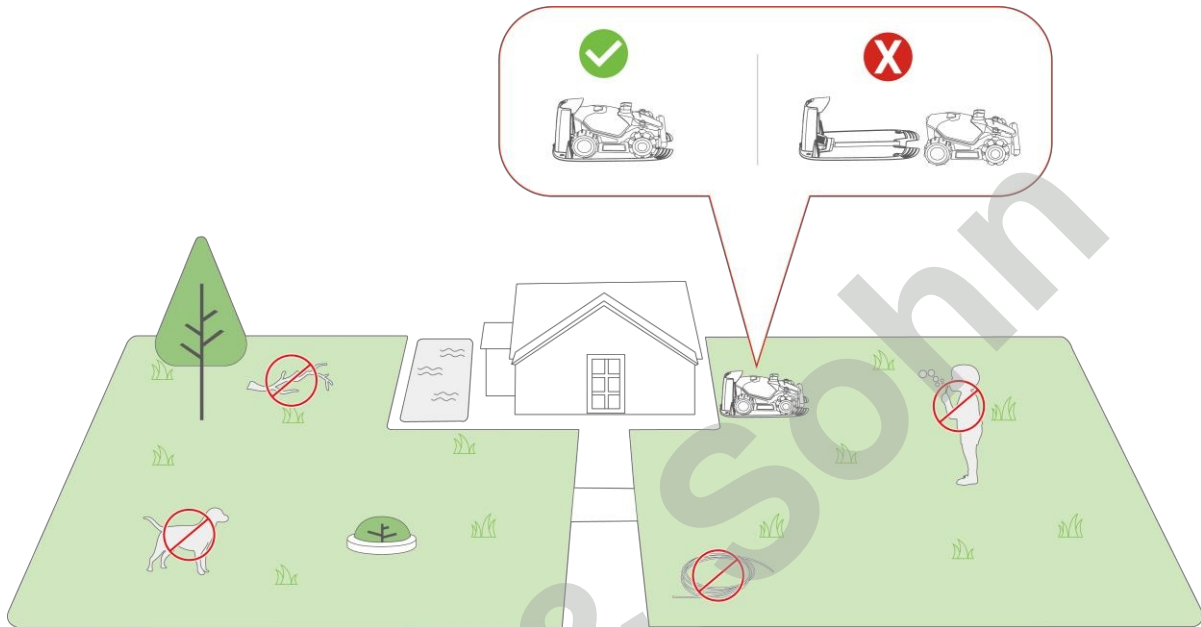
If you did not activate the SIM card with 4G data during the robot pairing process, you can do so by clicking on the status bar on the home page:

1. Click on **the status bar** on the home page.
2. Click the **4G** button.
3. Tap **Activate** and wait for the activation to complete successfully.



3.5 Preparation before mowing

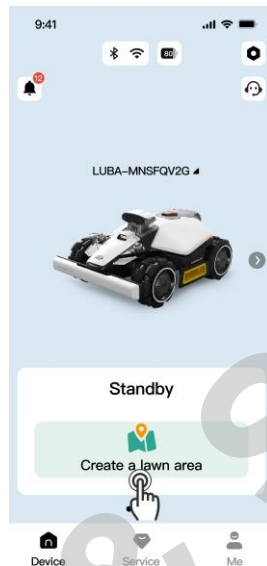
- Before using the mower for the first time, mow the lawn to a height of no more than 10 cm.
- Remove any debris, piles of leaves, toys, wires, stones and other objects from the lawn.
- Make sure there are no children or animals on the lawn.



- For best mowing results, it is recommended to mow in dry weather. Mowing in the rain may cause grass to stick to the robot and cause it to slip. DO NOT mow in bad weather, such as heavy rain, storms or snow.

3.6 Mapping and mowing the lawn

1. Click on **Create Area** on the home page.
2. Read and follow the instructions in the app to check that your robot is ready to map.
3. Click **Start mapping** to begin mapping your lawn.
4. Once mapping is complete, tap **Mow** to start mowing.



3.7 Charging



NOTE

The robot must be within the working area to return to the charging base.

Recharging

- Click '🏠' on the map page in the app, or
- Press the '🏠' button and then the 'START' button on the robot to return the robot to the charging base.

4 Daily mowing




4.1 DropMow

In DropMow mode, no mapping is required – simply place the mower down, press the “Mow & Start” buttons, and the mower will start mowing in a regular N-shaped pattern in the direction it is currently facing. The temporary map is not saved, making this ideal for quick, one-off mowing.

Recommended uses include:


- Mowing areas that the robot cannot normally reach.
- Temporary mowing tasks that do not require a complete map.

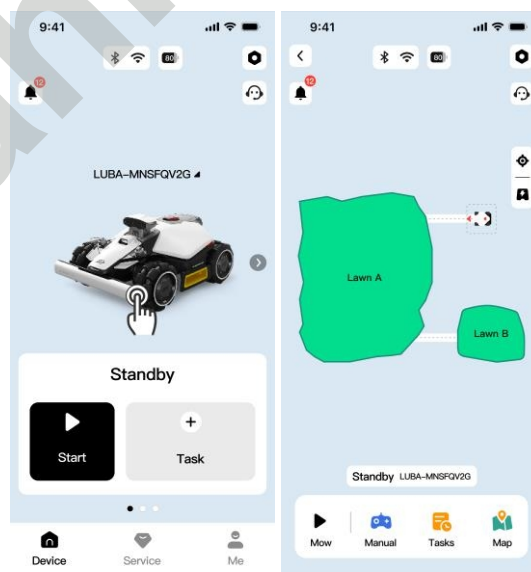
Using DropMow:

- Click on  > **Beta Features** > **DropMow** in the app or
- Press and hold the  button for 5 seconds, then press the  button on the robot's body.

4.2 Standard task (Custom settings)

Customising the mowing task:

1. Click on the robot image in the app to go to the Map page.
2. Click on  to go to the Areas page.
3. Click on **'Mowing Area'** to select the area you want to mow.
4. Click on **Settings** to configure the task settings.
5. Click **Start** to begin mowing.



4.3 Scheduled task

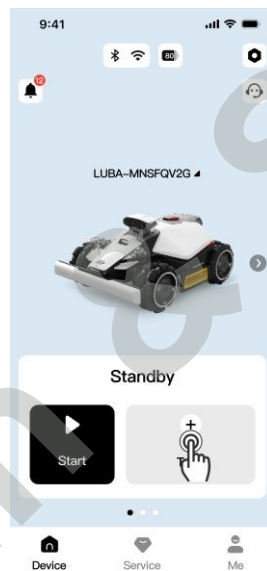
NOTE



- You cannot create tasks whilst the robot is working.
- Tasks can be set up after a mowing area has been created.

Scheduling an automatic mowing task:

1. On the home page, click '+' if no job has been created yet.
2. Click on **Mowing Area** to select the area to be mowed.
3. Click on **Settings** to configure the parameters.
4. Click on **Scheduler** to set the date and time, then click on **Save**.
5. Finally, click **Save** to save the scheduled mowing job.



5 Mammotion app

With the Mammotion app, you can fully customise, manage and monitor your mower, allowing you to control mowing from anywhere.

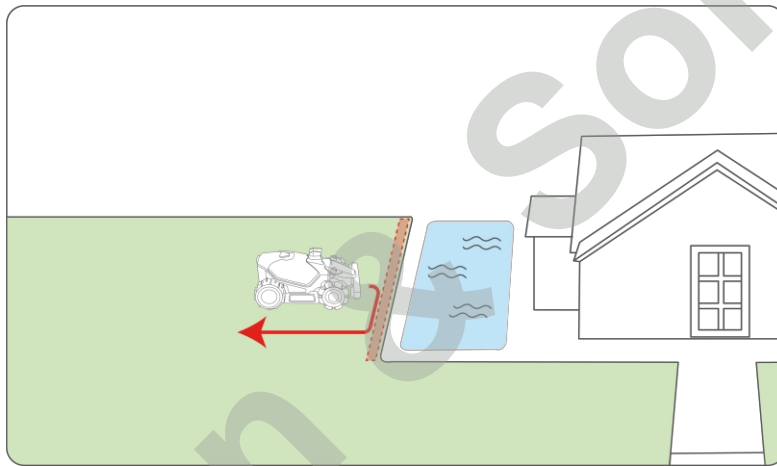
5.1 App features

Virtual fence

A virtual fence acts as an invisible barrier that defines boundaries or restricts access to areas where you do not want the robot to enter.

Recommended uses include:

- Lawns with unclear or undefined boundaries.
- Water features such as swimming pools or ponds (the edges of the water surface).



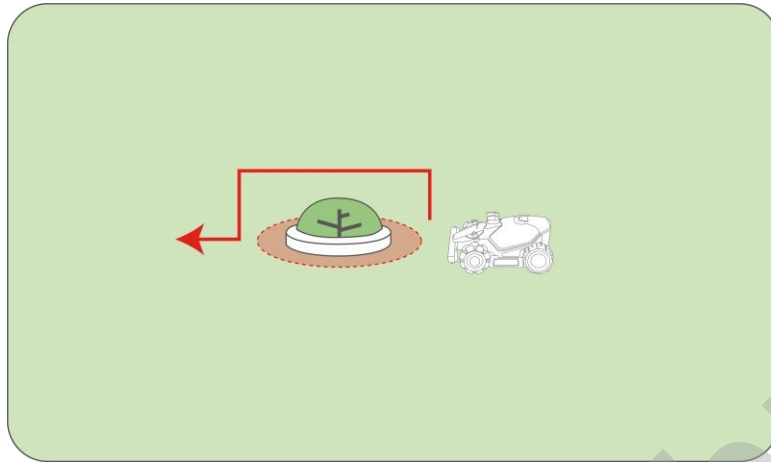
No-go zone

A no-go zone is an area that your robot should avoid entirely. It is essential for protecting the robot from damage and keeping it out of sensitive or hazardous areas. The robot will not mow in no-go zones.

Recommended uses include:

- Low flower beds, particularly those less than 20 cm high.
- The edges of water features, such as ponds or swimming pools, particularly where there is no clear boundary.
- Transparent objects, such as insect screens or glass doors.
- Small or low obstacles, such as clotheslines, tent ropes or water pipes.
- Pet houses, e.g. dog kennels.

- Highly valuable or delicate plants, including crops and ornamental plants.
- Irrigation equipment, such as hoses and sprinklers.

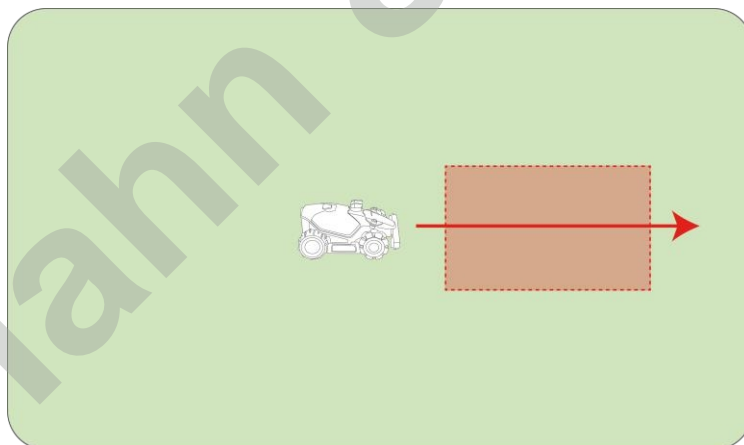


Pass-through zone

A passage zone is an area where the robot disables the obstacle avoidance function and will not stop at any obstacles on its way to the working area or another location, and when returning to the charging base. These are useful for complex but safe areas where the robot might otherwise get stuck.

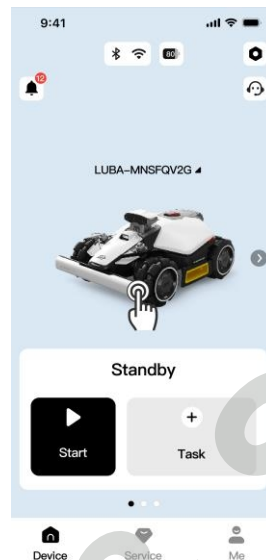
Recommended uses include:

- Areas of lawn that may be mistakenly identified as invalid due to seasonal changes.
- Areas with low, safe obstacles.



Adding a virtual fence / No-go zones / Passage zones

1. Click on the robot image on the home page to access the Map page.
2. Click on **Map**.
3. Click **Create**.
4. Select **Virtual Fence / No-go Zone / Passage Zone** and follow the instructions in the app to complete the setup.



5.2 Mowing settings

Mowing mode

Select the optimal mode based on the condition of your lawn and the desired appearance in the menu **Mow > Settings > Mowing mode**.

- **Perimeter only:** Mowing only the perimeter of the lawn.
- **Zigzag:** Mows in classic striped lines.
- **Checkerboard:** Mows in a criss-cross pattern for a dense and even lawn surface.
- **Adaptive Zigzag:** The robot automatically adjusts the mowing path along its length for greater efficiency.

Pattern (lawn printing)

Add text or images to the map. On the map, go to the **Create > Pattern** menu and add a pattern.

5.3 Safety and security

Obstacle Detection

Adjust the robot's response to objects and changing terrain in its mowing path. In the **Mowing > Settings > Obstacle Detection Mode** menu, you can choose one of three sensitivity levels:

- **Sensitive:** Increases the robot's sensitivity to standard obstacles and non-grass surfaces (e.g. pavements, gravel). Use this mode on complex lawns.
- **Standard:** Detects and avoids common obstacles (e.g. toys, furniture) encountered whilst mowing. This is the recommended default setting.
- **Off:** Disables obstacle detection. Use only in specific, controlled environments where detection is not required or interferes with normal operation.

Rain sensor

Your robot is equipped with built-in rain sensors. If these sensors are activated, the robot will automatically stop mowing and return to the charging base as soon as it detects rain.

- You can enable/disable this function in **Settings > Rain Sensor**.

Safety for nocturnal animals

This feature helps protect nocturnal animals during night-time operation. You can set the robot to **Mow at low speed** or **Stop mowing** during the night.

- Enable this feature in **Settings > Safety for nocturnal animals**.

5.4 Security and monitoring

Geo-fence Alarm

The app will send you a push notification if the robot moves more than 50 m away from the designated working area, alerting you to potential unauthorised movement.

- To use this feature, go to **Profile > Find My Device** and enable **Location Notifications**.

GPS Tracking


If your robot goes missing, you can track its location in real time using GPS, provided the robot has been connected to the Mammotion app.

- To use this feature, go to **Profile > Find My Device** and enable **Location Logging**.

5.5 Sending logs

If you encounter any issues whilst using the service, you can upload the relevant logs to help our technical support team diagnose and resolve the problem effectively.


Uploading logs

1. Click  to go to the **Settings** page.
2. Click on **Upload Logs** and follow the in-app instructions to complete the upload. **OR**
3. Go to **Profile > Upload Logs** and follow the in-app instructions to complete the upload.

5.6 Firmware update

For the best experience, ensure your robot is updated to the latest firmware version.

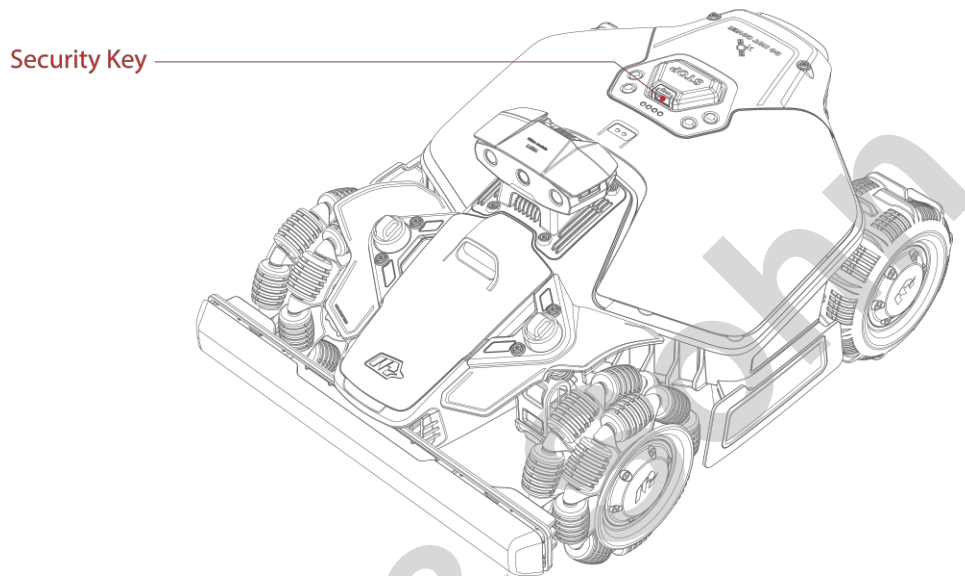
Firmware update:

1. Go to the section  > **Device Information > Robot Version** and update the firmware.
2. Make sure the robot is connected to a stable network.
3. Do not close the app, perform any other operations or switch off the robot during the update.

6 Maintenance

To maintain optimal mowing performance and extend the robot's lifespan, Mammotion recommends carrying out regular checks and maintenance at least once a week. For safety reasons, always wear protective clothing such as trousers and work boots; avoid wearing open sandals or walking barefoot during maintenance.

- Switch off the robot and remove the key before carrying out maintenance.



- DO NOT use a high-pressure cleaner, a water jet or solvents to clean the robot.
- After maintenance, ensure that the robot is placed on the ground in its working position, not upside down.
- DO NOT turn the robot upside down to clean its chassis. If you do turn it over for cleaning, never spray water onto the underside of the robot and ensure that you return it to its working position once cleaning is complete. This precaution is essential to prevent water from entering the motors and potentially affecting the robot's normal operation.

6.1 Cleaning

Robot

WARNING



- Before starting any cleaning work, ensure that the robot is completely switched off.
- Always switch off the robot before turning it upside down.
- When turning the robot upside down, handle it with care so as not to damage the camera module.

Housing

Use a soft brush or a damp cloth to clean the robot's cover. Do not use a water jet (from a hose or pressure washer), alcohol, petrol, acetone or other corrosive or volatile solvents, as these may damage the robot's appearance and internal components.

Chassis

Wear protective gloves when cleaning the chassis and cutting disc. Use a brush or plastic scraper to remove dirt. Check that the blades are not damaged and ensure that the blades and cutting disc rotate freely. DO NOT use sharp objects or a jet of water (from a hose or pressure washer) to clean the underside.

Wheels

Clean both the rear and front wheels with a brush. Remove any dirt. After every 200 hours of operation, use the oil (included with the product) to lubricate the axle of both front wheels.

Vision camera

Wipe the camera lens with a soft microfibre cloth to remove any smudges without damaging the lens.

Cleaning the charging base

Before cleaning or maintaining the charging base, first unplug it from the mains socket. Use a soft cloth to clean the infrared transmitter and charging contact. Do not pour water onto the charging base. Treat the charging base contacts with a contact cleaner, e.g. Kontakt 61.

6.2 Maintenance of mower blades

WARNING

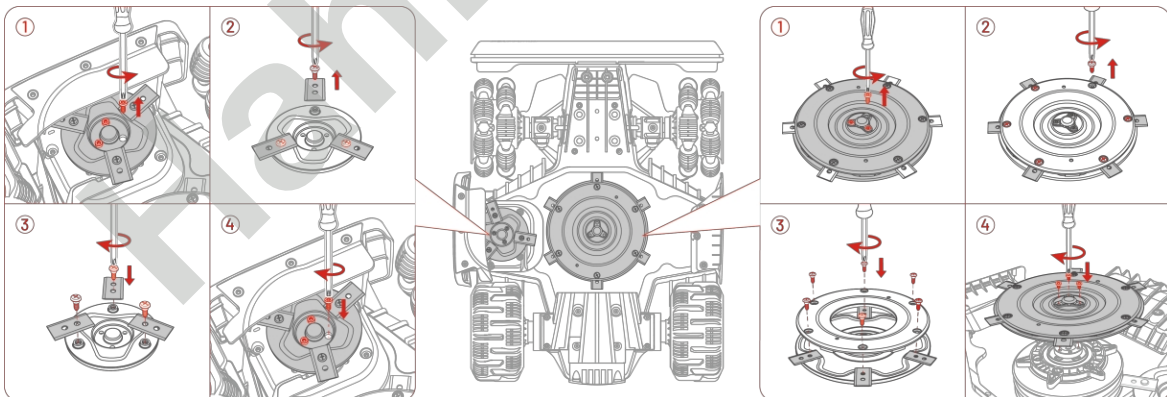


- Always wear protective gloves when replacing the blades. DO NOT use an electric screwdriver during installation.
- When replacing the blades, replace all screws at the same time to ensure optimum cutting performance.
- After installation, ensure that all blades rotate freely.

- To ensure optimum performance during long-term storage, keep the motor shaft dry and clean. Regular maintenance of the motor shaft helps prevent the build-up of dirt and moisture, which can affect the motor's function. The expected service life of the motor is 1,500 hours of operation.
- Mower blades are considered consumable parts and should be replaced if they become heavily worn. It is recommended to change the blades every 1–2 months or after 150 hours of operation.
With denser grass, more frequent blade replacement is necessary to ensure a high-quality cut.

Replacing the cutting blades

1. Switch off the robot and remove the key.
2. Place the robot on a soft, clean surface and turn it over so that the wheels are facing upwards. Be careful not to press on the camera module.
3. Remove the old cutting blades using the Phillips screwdriver provided.
4. Install the new cutting blades (**B**) using the screws provided (**A**). Ensure that the blades rotate freely and are securely installed.



6.3 Battery maintenance

- Before long-term storage, allow the battery to fully charge to prevent it from becoming excessively discharged.
- Fully charge the battery every 90 days, even if it is not in use.
- Before storing or charging, make sure that the charging contacts on the robot are clean and dry.

6.4 Winter storage

To ensure your robotic lawnmower is in optimal condition for the next mowing season, store it and the charging base properly. If the ambient temperature drops below 0 °C in winter, keep the robotic lawnmower and charging base indoors.

Storing the robot

1. Operate the mower away from the charging base and ensure it is fully charged.
2. Switch off the mower and remove the key.
3. Clean the mower (cover, wheels, chassis, 3D Vision module, etc.) with a damp cloth or a soft brush. Never wash the mower with water before storing it.
4. Allow the mower to dry.
5. Apply anti-corrosion lubricant, such as Kontakt 61, to the charging contacts. DO NOT apply chemicals to any other parts of the mower, particularly metal contact surfaces, apart from the connectors.
6. Remove the front bumper, clean the connection slot with a brush and check the contacts.
7. Clean the front bumper with a soft brush.
8. Make sure once again that you have removed the key from the mower.
9. Store the mower indoors in a well-ventilated and dry place.
10. Before the next mowing season, reattach the bumper to the mower, insert the key and allow the mower to charge fully.

Storing the charging base

If the ambient temperature falls below -10°C, always store the charging base indoors.

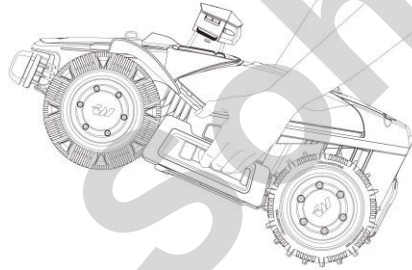
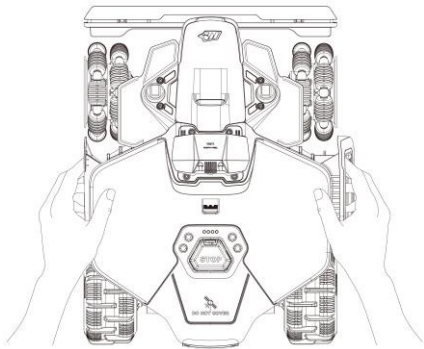
1. Unplug the power adapter from the socket and from the charging base.
2. Unscrew the pins from the base.
3. Use a soft brush and a cloth to clean the charging base thoroughly.
4. You can treat the charging contacts with an anti-corrosion lubricant, such as Kontakt 61.
5. Store the charging base indoors in a dry and well-ventilated place.

7 Transport and handling

For long-distance transport, Mammotion recommends using the original packaging for the robot, charging base and RTK reference station.

To carry the robot safely:

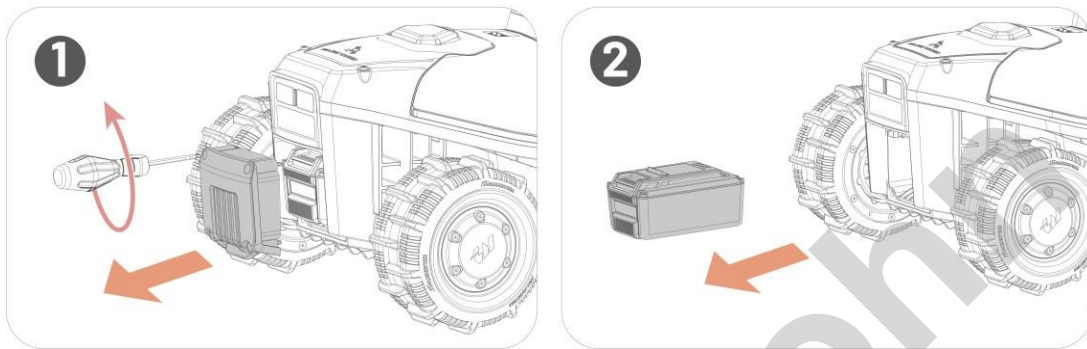
1. Switch off the robot.
2. Lift the robot by the handles on the sides.
3. Keep the mowing discs away from your body.



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8 Disposal

When disposing of the product, please comply with local regulations and requirements. Do not dispose of batteries in normal household waste. Remove the battery and take it to a collection point.



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9 Specifications

9.1 Technical Specifications

Name	LUBA mini 2 AWD
Model	LM2S2
Max. mowing area	1,000 m ²
Max. number of mowing areas	10
Drive	All-wheel drive (AWD)
Max. slope angle	80% (38.6°)
Max. side slope	40% (21.8°)
Ground clearance	45 mm
Cutting width	Mowing disc: 200 mm Side mowing disc: 120 mm
Number of cutting discs:	Mowing disc: 1 Side mowing disc: 1
Cutting height	Mowing disc: 20–65 mm Side mowing disc: 50 mm
Charging time	150 min
Max. battery life	150 mins
Automatic recharging	Yes
GPS tracking	Yes
Geo-fence alarm	Yes
Vision Geo-fence	Yes

Name	LUBA mini 2 AWD
Lift sensor	Yes
Tilt sensor	Yes
Positioning and navigation	Triple-Camera AI Vision system
Obstacle avoidance	Triple-Camera AI Vision system and bumper
Voice assistant support	Alexa & Google Assistant
Vision Monitoring	Yes
Connectivity	4G & Bluetooth & Wi-Fi
A-weighted sound power level	LWA=64 dB, KWA=3 dB
A-weighted sound pressure level	LPA=56 dB, KPA=3 dB
Water resistance	Robot and charging base: IP6 (in operating position)
Rain sensor	Yes
OTA updates	Yes
Recommended Operating and ambient temperature	5–40 °C
Recommended storage temperature	0–40 °C
Net weight	17 kg
Dimensions	584 x 460 x 290 mm

9.2 Operating range specifications (for EU models)

Robot

Category	Frequency range (MHz)	Maximum transmitter power (dBm)
LORA	863.1–869.85	< 13.98
Bluetooth	2400–2483.5	< 20
Wi-Fi	2400–2483.5	< 20
	5550–5700	< 20
	5745–5825	< 13.98
LTE Band 1	Tx: 1920–1980 Rx: 2110–2170	25
LTE Band 3	Tx: 1710–1785 Rx: 1805–1880	25
LTE Band 7	Tx: 2500–2570 Rx: 2620–2690	25
LTE Band 8	Tx: 880–915 Rx: 925–960	25
LTE Band 20	Tx: 832–862 Rx: 791–821	25
LTE Band 28A	Tx: 703–736 Rx: 758–791	25
LTE Band 28B	Tx: 718–748 Rx: 773–803	25
LTE Band 38	Tx: 2570–2620 Rx: 2570–2620	25
LTE Band 40	Tx: 2300–2400 Rx: 2300–2400	25
GNSS	1559–1610 1164–1300	N/A

9.3 Battery specifications

Adapter	Model: TS-A081-2703002/ADS-81EJ-27-5 Input: 100–240 V AC, 50/60 Hz, Max. 2 A Output: 27 V DC, 3 A, 81 W
Battery	21.6 Vdc, 6.1 Ah, 131.76 Wh
Battery designation	MWBT06S02P-01/MWBT06S02P-06
Robot	Input: 27 Vdc, 3 A
Charging base	Model: CHG4320 Input: 27 Vdc, 81 W Output: 27 Vdc, 3 A
Charging ambient temperature	4–45 °C



WARNING

- Only use the power adapter supplied with this product to charge the battery.
-

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Warranty certificate

Model:
Serial No.:
Date of sale:
Dealer's stamp:

This warranty certificate applies to products imported into the Czech Republic by BLAKAR trading s.r.o., business premises: Azalková 1272, 252 42 Jesenice, Company ID: 282343391, VAT No.: CZ28234391.

WARRANTY TERMS

- The product is covered by a quality warranty for a period of 36 months from the date of sale to the consumer.
- The warranty covers defects demonstrably caused by faulty materials.
- The warranty does not cover defects caused by transport, failure to follow the operating instructions provided in the manual, poor maintenance, mechanical damage, tampering with the product, or faults caused by power supply failures, incorrect installation, or unsuitable placement (dusty, chemical or otherwise unsuitable environments).
- The warranty does not cover defects caused by normal wear and tear (in the case of batteries, particularly loss of capacity; the battery life is a minimum of 6 months from the date of sale, or wear and tear mowing blades, mowing discs, tyres, wheels, etc.).
- To claim under the warranty, proof of purchase must be presented (e.g. an invoice, receipt or a completed warranty certificate stamped by the seller)

Authorised service centre for the Czech

Republic: BLAKAR trading s.r.o., Azalková
1272, 252 42 Horní Jirčany, Czech
Republic

Tel.: +420 606 839 644, +420 774 737 789

(Mon–Fri 8.00 am–4.30 pm)

Email: servis@blakar.cz

www.lubasekacky.cz



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