

# LUBA 2 AWD SERIES PERIMETER WIRE FREE ROBOT LAWN MOWER

A TRUSTED CHOICE FOR LARGE OR UNEVEN LAWNS



# About Mammotion

Mammotion is dedicated to cultivating an intelligent and high-quality eco-friendly outdoor lifestyle through innovative robotics solutions. Our mission starts with revolutionizing robot lawn mowers for both professionals and consumers, paving the way for a more sustainable and efficient outdoor experience.

**70%+**  
R&D staff  
proportion

**400+**  
Patents

**6000m+**  
Production base

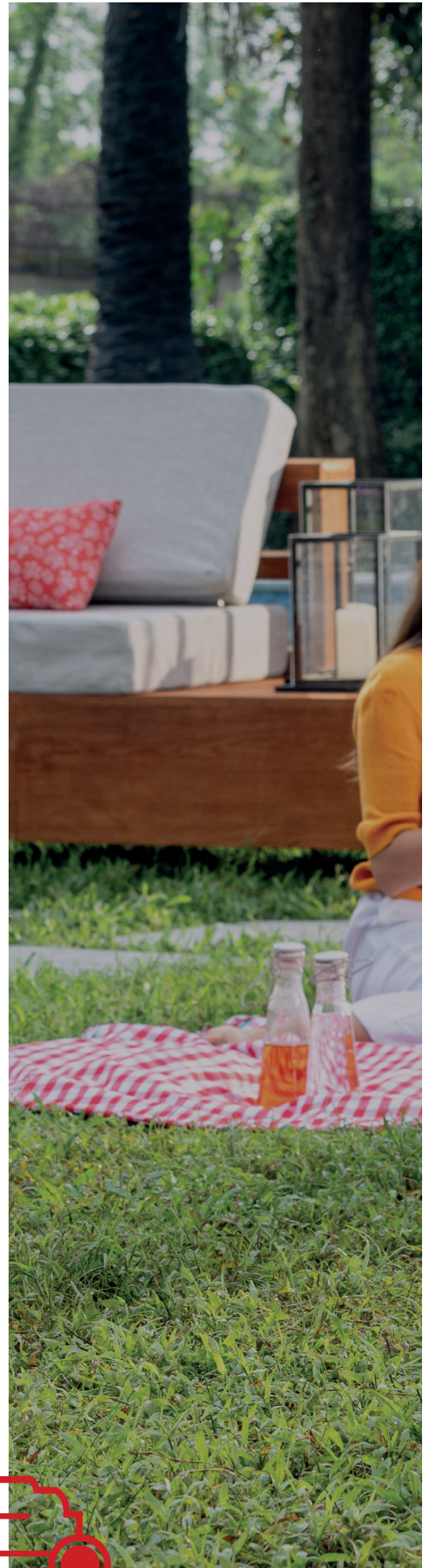
# About LUBA

As the world's only perimeter wire free robot lawn mower able to deliver long-term, stable and flawless performance on large or complex lawns. Through a one-time setup in the Mammotion APP, LUBA offers customized cutting heights, patterns and schedules for multi-zones lawns. It utilizes proprietary algorithms to calculate the optimal route, adjusting tasks in response to real-time weather changes, also featuring auto-recharging, anti-theft and yard monitoring. It truly achieves labor-free, 24/7 lawn maintenance.

**Hands-free** Mowing

**24/7** Freshly cut lawn

**Residential** Use





# A TRUSTED CHOICE FOR LARGE OR UNEVEN LAWNS



**80%**

Slope with  
all-wheel-drive system (38,6°)

**18 mins**

To setup without  
a perimeter wire

**0 corner**

Missed with  
dual-guarantee positioning

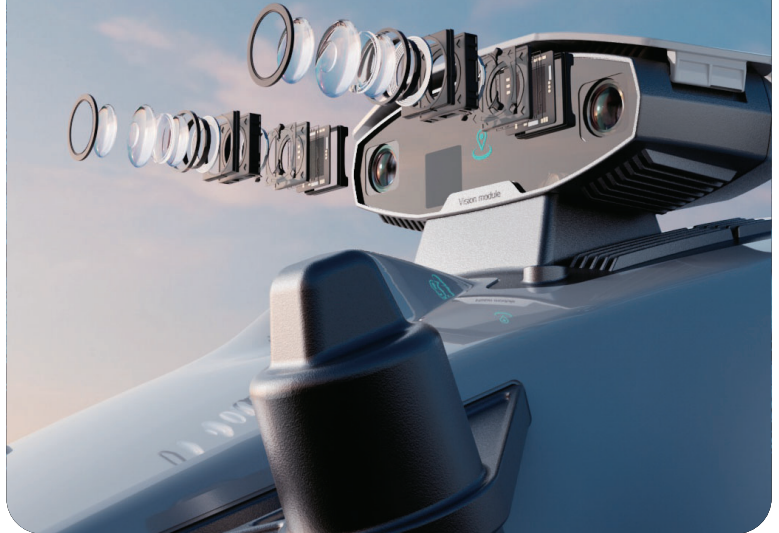
**66%**

Higher efficiency than  
the second-best

IN-APP  
**CUTTING HEIGHT**  
ADJUSTMENT



**BIONIC VISUAL**  
OBSTACLE AVOIDANCE



**MULTI-ZONE**  
& NO-GO-MANAGEMENT



**APP CONTROL**  
EVERYWHERE



**4G & GPS TRACKING**  
WITH A 4G SIM CARD

4G SIM CARD NOT INCLUDED, PURCHASE SEPARATELY

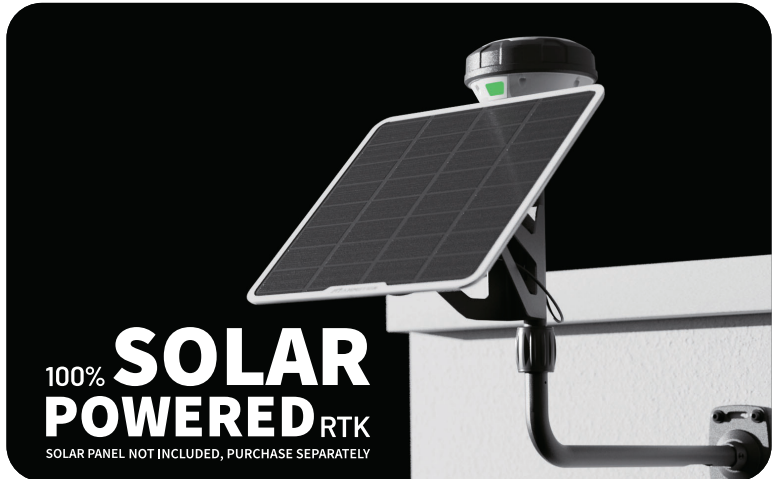
**VOICE CONTROL**  
ALEXA & GOOGLE HOME



**AUTO-RECHARGE**

100% **SOLAR**  
**POWERED** RTK

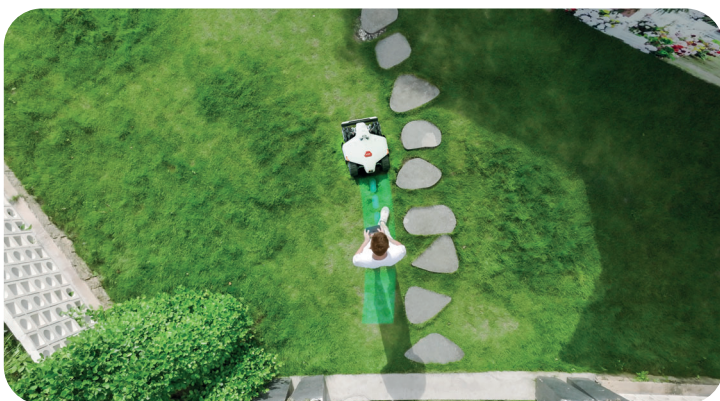
SOLAR PANEL NOT INCLUDED, PURCHASE SEPARATELY



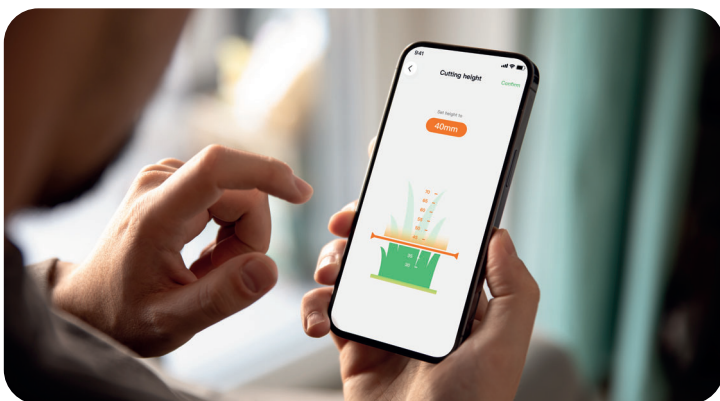
# HOW TO USE



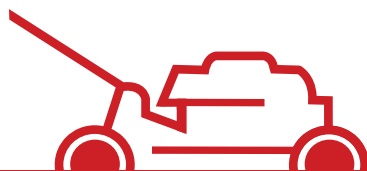
**1** Install the RTK and the charging station in the yard.



**2** Drive LUBA like a remote control car to set a virtual boundary, creating multi-zones and no-go-zones is just as straightforward.



**3** Set cutting height, frequency and mowing mode for different zones within the Mammotion APP.



# WITH APP & VOICE CONTROL MOWING IS A BREEZE



**APP CONTROL**  
Customize mowing with  
the Mammotion APP.



**VOICE CONTROL**  
Alexa & Google Home  
enabled.



# WHEN OTHERS GET STUCK...



Steep slopes



Rough terrain



Potholes



Tall & thick grass



# ... LUBA PREVAILS



## ALL-WHEEL-DRIVE SYSTEM

Featuring four powerful in-hub motors, LUBA can effortlessly handle an 80% slope and traverse the most demanding terrain without getting stuck.

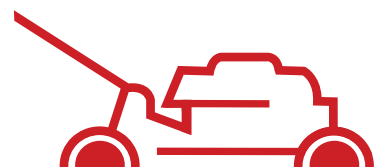
## ADAPTIVE SUSPENSION ARM

The adaptive suspension arm system, combined with terrain sway, ensures LUBA's agile traversal of rugged terrain.



## OMNI-WHEEL

The omni-wheels ensure zero-turn agility without damaging the lawn. The gap between the small wheels provides excellent traction ensuring LUBA operates smoothly on steep slopes without slipping.



# NO CORNER MISSED WITH FUSION-MAPPING SYSTEM

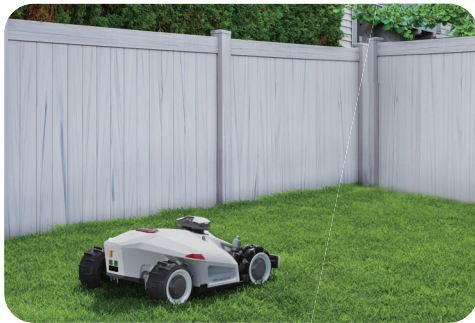
Where the GPS signal is weak, Luba can still mow up to 50m on it's dual bionic camera.



**Dense Shade**



**Narrow Nook**



**Angled Corner**



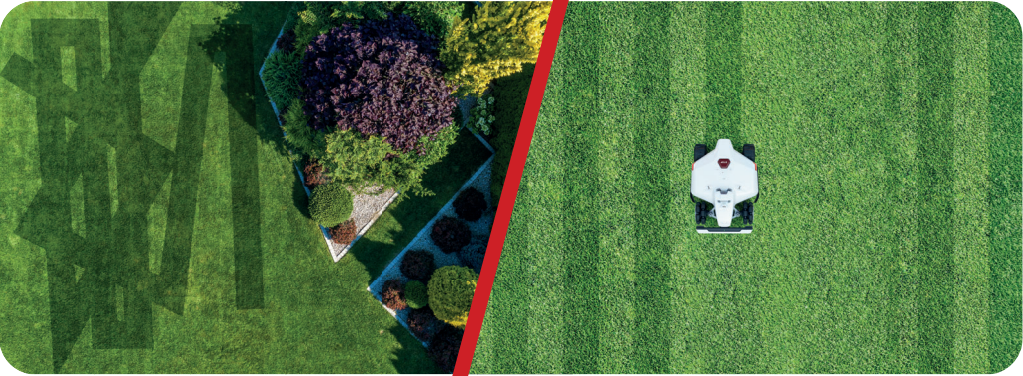
**Unfenced Lawn**



- ▶ **Enhanced RTK signal coverage up to 5km**
- ▶ **Bionic vision positioning technology**



# A 66% HIGHER MOWING EFFICIENCY THAN THE SECOND-BEST



Planned route mode

**OTHER**

**LUBA**



Dual-cutting disc

**OTHER**

**LUBA**



in-APP cutting height adjustment

**OTHER**

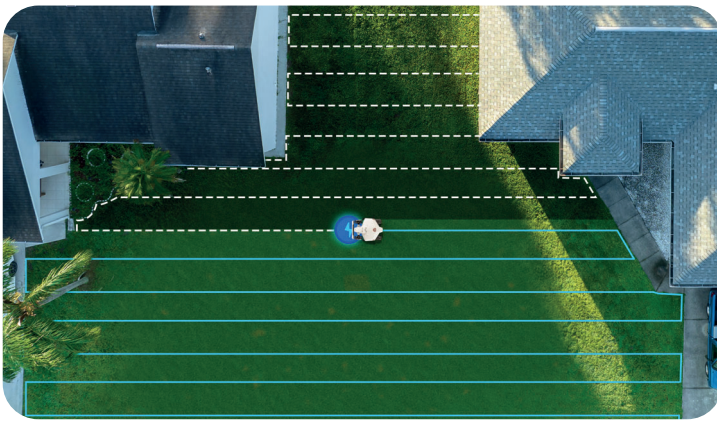
**LUBA**





## Powerful lithium battery

LUBA's lithium battery has sufficient capacity to allow for 180 minutes of continuous operation and the ability to mow up to 500 square meters (0.13 acres) per hour. When the battery level is low, LUBA autonomously returns to the charging dock and resumes the interrupted mowing session.



## Re-cutting at stoppage point

Experience uninterrupted mowing with LUBA. After automatically recharging, LUBA seamlessly resumes mowing where it last left off, ensuring a consistently well-maintained lawn.

# UNLEASH LAWN ARTISTRY WITH 35 LAWN PRINTING TECHNOLOGY



In the Mammotion APP, you can choose different mowing patterns and create custom designs.

LUBA uses advanced algorithms to adjust the mowing route, cutting height and angle, ensuring precise mowing of the desired lawn patterns.

FOTA (Firmware Over-The-Air) updates regularly add new patterns, giving users a wide range of options and the latest designs.



# EXPERIENCE **HASSLE-FREE** LAWN CARE EVEN WHEN YOU'RE ON HOLIDAY

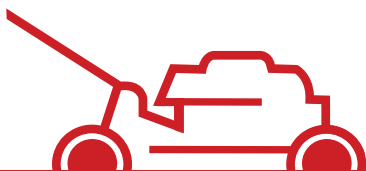
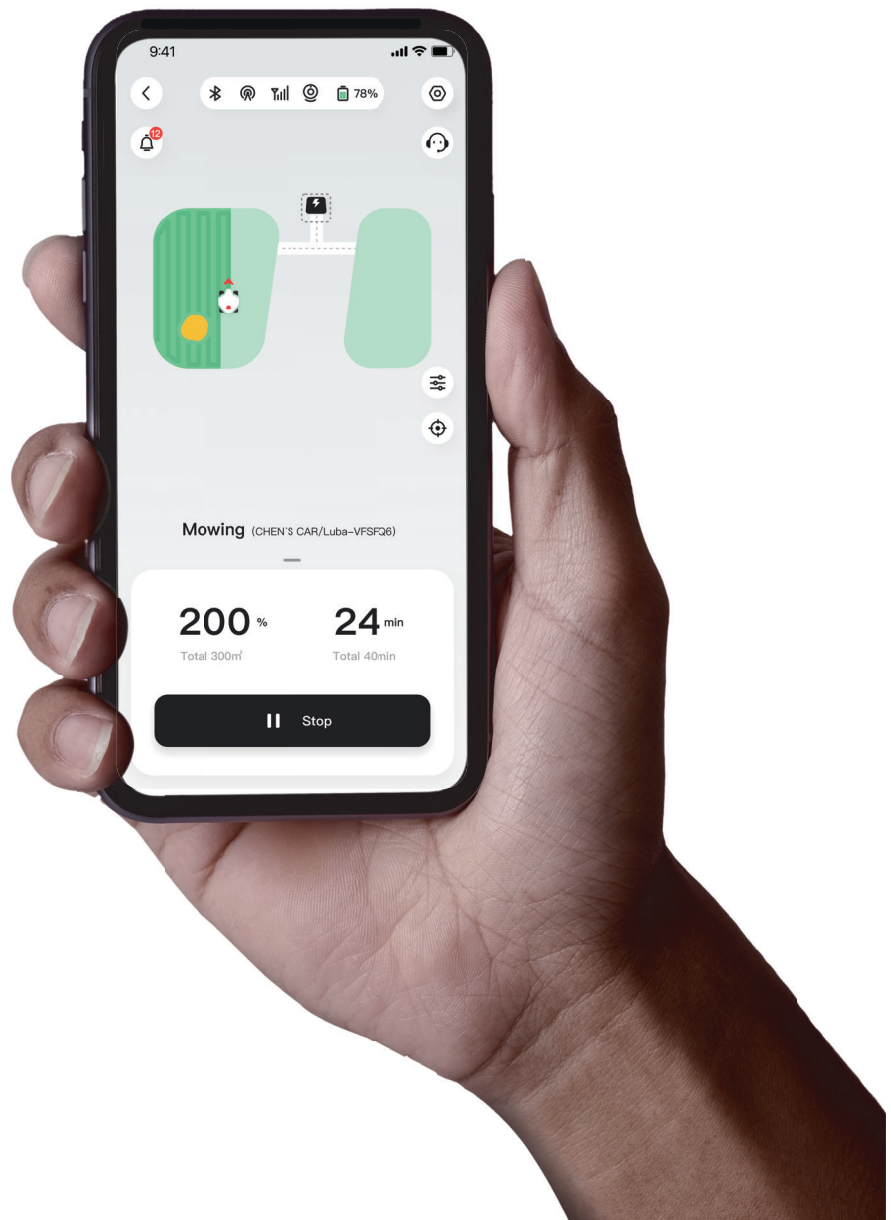
- ▶ **Real-time Yard Monitoring**

Enable the yard monitoring feature in the visual module (defaulted to off) to access real-time yard status, playback recordings, and manage your yard smartly through the Mammotion APP.

- ▶ **Set Cutting Height & Mowing Modes**

- ▶ **Set/Adjust Mowing Schedule**

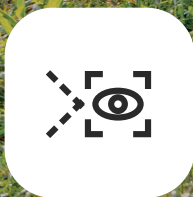
- ▶ **Check Mower Status**



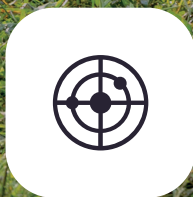




## Triple-reductant Obstacle Avoidance



Bionic Visual Recognition  
& Obstacle Avoidance



Ultrasonic Radar Detection  
& Obstacle Avoidance



Physical Bumper  
Protection





# LEADING THE WAY IN **SAFE & SECURE** LAWN MAINTENANCE

## Enhanced Safety Features

Physical Stop Button

Security Key

Lift/Tilt Sensor

Blade Halts during Abnormal Situation

Electric Motor Protection  
& Obstacle Avoidance

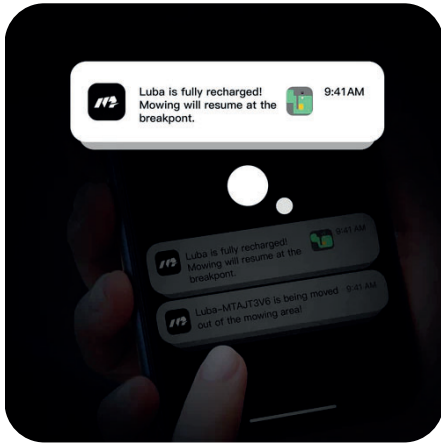
Ultrasonic Radar Detection  
& Obstacle Avoidance

Physical Bumper  
Protection





**INTELLIGENT SECURITY  
AND TRACKING FEATURES**



### App Notification

Receive APP notification if LUBA exceeds designated mowing zones.



### 4G & GPS Tracking

Track LUBA's location in real-time in the Mammotion APP using 4G and GPS tracking.

\*Note: 4G SIM card is not included and must be purchased separately.



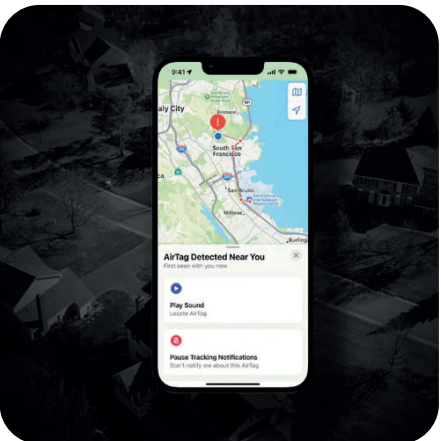
### Ownership Authentication

The first user to activate the device becomes the rightful owner and can grant access to family members. LUBA supports a "lost" feature, preventing unauthorized use.



### Sentry Mode

Activate sentry mode when LUBA returns to the charging station. Receive alerts and view captured photos if someone approaches within 3 meters, customizable in the Mammotion APP.



### AirTag Compatibility

Reserve a spot on LUBA for an AirTag. Add an optional AirTag to secure your LUBA for added peace of mind.

\*Note: Airtag is not included and must be purchased separately.



# TAKE A STEP TOWARDS SUSTAINABILITY

## 100% Solar-powered RTK

RTK is powered by the robust lithium battery that can be charged using solar energy, providing an extended 14-day battery life. This ensures ample power reserves, even during cloudy or rainy seasons.

\*Note: Solar panel is not included and must be purchased separately.



### Eco-friendly

It operates solely on solar power, resulting in zero emissions and promoting eco-friendliness.



### Convenient

With no need for extended power cables, it offers hassle-free installation and operation.



### Cost-effective

It reduces energy costs, making it an economical choice.



### Flexible

The RTK can be installed in any outdoor open area without the need to consider power sources.

## Whisper-Quiet Noise Level

During operation, LUBA maintains a noise level consistently below 60dB, ensuring no noise pollution is generated.

## Built to Last



### Waterproof Performance

LUBA machine is IPX6 waterproof rated, while the RTK reference station boasts an IPX7 waterproof rating. This ensures exceptional durability, even in rainy and humid areas.



### Rain Detection

LUBA automatically adjusts its mowing schedule based on real-time weather conditions, thanks to its rain sensor and the seamless integration of the Mammotion app with local weather forecasts.

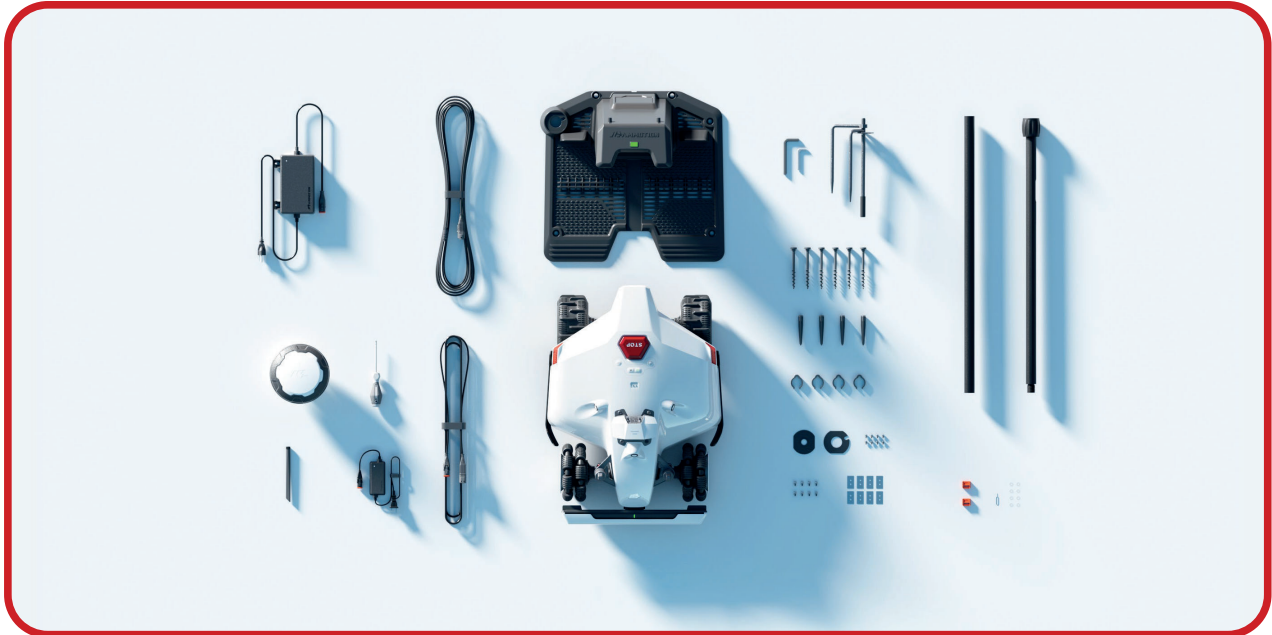


### FOTA Updates

The Mammotion software continuously introduces new features, enhancing functionalities, and delivers more seamless user experience, which can be conveniently downloaded anytime using FOTA (Firmware-Over-The-Air) technology.



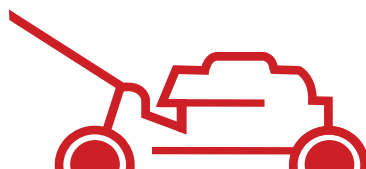
# WHAT'S IN THE BOX?



- LUBA 2
- Charging station + power supply + 10m cable
- RTK antenna + power supply + 10m cable
- RTK pole + ground pin
- 1 set of 8 blades and bolts
- 2 safety keys
- Mounting pins for the charging station
- Mounting keys

## EXTRA OPTIONS

- LUBA garage (MAMTL23GAR0001)
- 24 pcs. set of replacement blades (MAMTL23BLD0002)
- LUBA F1 stickers (MAMTL23FCS0002)
- Solar panel unit excl. wall mount (MAMTL23SPU0001)
- Wall mount for RTK antenna (MAMTL23LMR0002)

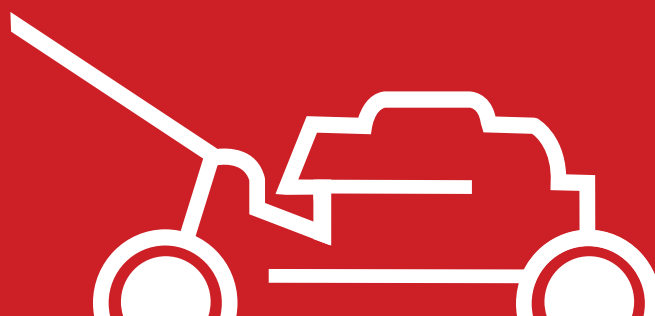


# SELECT YOUR MODEL

Specifications	LUBA 2 AWD 10000	LUBA 2 AWD 5000	LUBA 2 AWD 3000	LUBA 2 AWD 1000
Max. Mowing Size	10000m <sup>2</sup>	5000m <sup>2</sup>	3000m <sup>2</sup>	1000m <sup>2</sup>
In-App Area Storage Capacity	12000m <sup>2</sup>	6000m <sup>2</sup>	3500m <sup>2</sup>	1200m <sup>2</sup>
Max. Multi-zone Management	60	30	20	10
Engine	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)
Max. Climbing Ability	80% (38.6°)	80% (38.6°)	80% (38.6°)	80% (38.6°)
Max. Slope at the Edge	45% (24°)	45% (24°)	45% (24°)	45% (24°)
Vertical Obstacle Passing Ability	50 mm	50 mm	50 mm	50 mm
Cutting Width	400 mm	400 mm	400 mm	400 mm
In-APP Cutting Height Adjustment	25-70mm	25-70mm	25-70mm	25-70mm
Charging Time	150 min	150 min	150 min	90 min
Mowing Time per Charge	180 min	180 min	180 min	120 min
Auto-recharge	Yes	Yes	Yes	Yes
Positioning & Navigation	Stereo Vision & RTK	Stereo Vision & RTK	Stereo Vision & RTK	Stereo Vision & RTK
Obstacle Avoidance	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper
Voice Control	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home
Vision Monitoring	Yes	Yes	Yes	Yes
Connectivity	4G & Wifi & Bluetooth*	4G & Wifi & Bluetooth*	4G & Wifi & Bluetooth*	4G & Wifi & Bluetooth*
Noise Level	60 dB	60 dB	60 dB	60 dB
Waterproof	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7
Rain Detection	Yes	Yes	Yes	Yes
Weight	17.65kg	17.65kg	17.65kg	17.65kg
Size (l*w*h)	690*513*273 mm	690*513*273 mm	690*513*273 mm	690*513*273 mm

\*Note: The data is obtained in a specific test environment and may be slightly different in actual use due to individual product differences, software versions, use conditions and environmental factors, etc. The actual usage should prevail.

\*Note: 4G SIM card not included.



# VAN DEN BOSSCHE

— WWW.GREENTOOLS.BE —

If you have any questions, feel free to contact us!



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