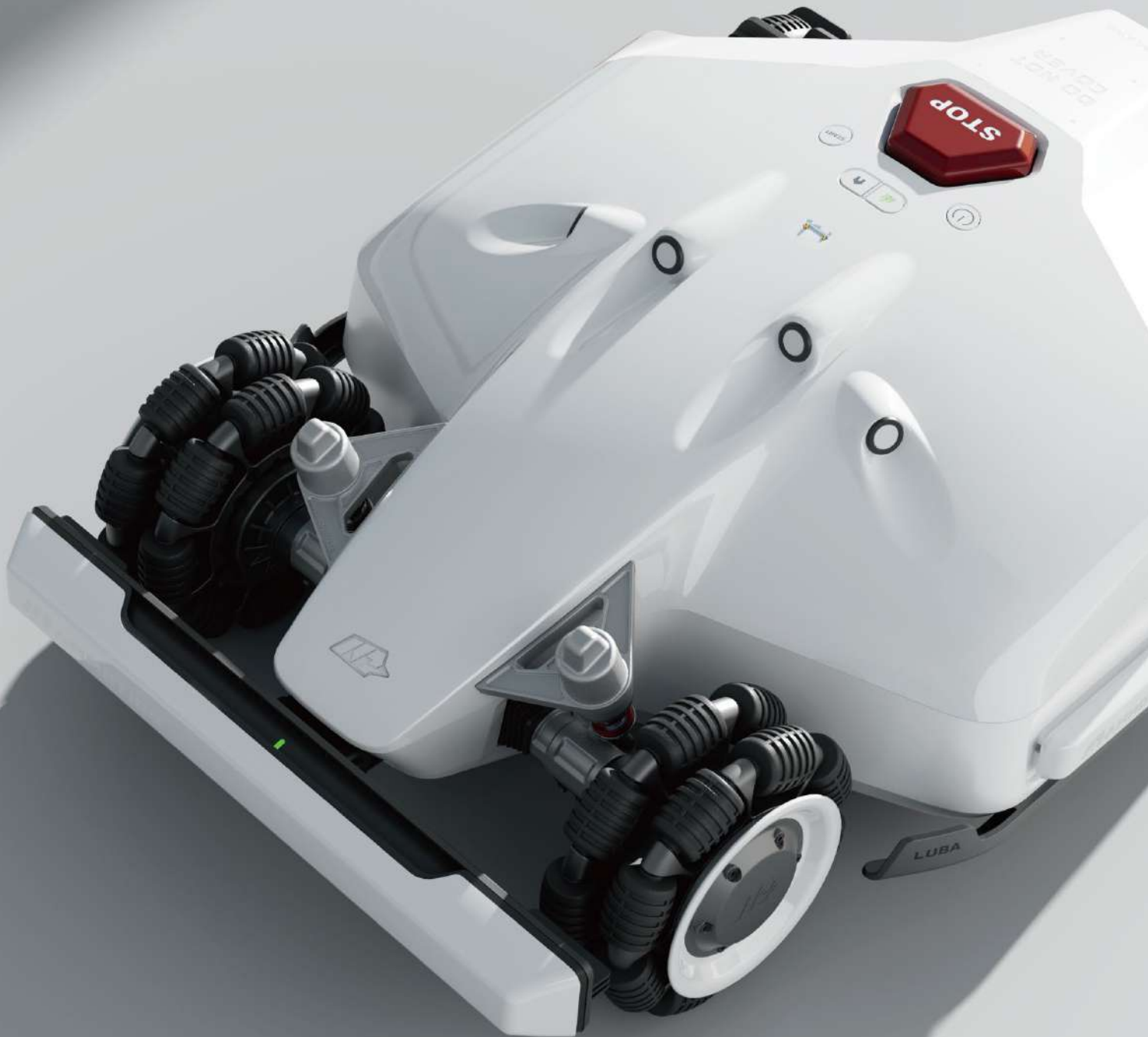




LUBA AWD Series

Perimeter Wire Free Robot Lawn Mower

A new generation robotic lawn care solution





About Mammotion

Founded in January 2022, Mammotion is committed to shaping a smarter and high quality eco-friendly outdoor lifestyle by providing innovative outdoor robot solutions. The team's core members come from world's leading robotic and UAV companies, inheriting AgileX Robotics' seven years of experience with advanced robotic chassis-based hardware and self-driving algorithm technology, Mammotion offers next-generation robotic solutions for professionals and consumers.



* Pictures in this catalog shown are for reference, the actual product shall prevail.

150+

Team Members

7+

Years Experience

240+

Patents

6000m²

Production Base

LUBA AWD Series

Redefine Mowing

LUBA AWD Series is the first and only Perimeter Wire Free Robot Lawn Mower that can handle lawns up to 5000m² (1.25 acres) with 75% slope (37°). It also has the best mowing efficiency and climbing capabilities of any other robotic lawnmower on the current market.



No Perimeter Cable

With RTK and Multi-Sensor Integrated Navigation System, Luba can create a map of your lawn and set up different mowing areas with virtual boundaries.



All-Wheel-Drive

Featuring powerful all-wheel-drive system and provide best-in-class power capability, LUBA can handle the most demanding rough terrains and complex lawn layouts.



App control

With the Mammotion App, you can customize your mowing tasks. Choose different mowing modes, set mowing schedules, adjust the cutting height, and multiple working areas. You can also monitor your mower anytime, anywhere.



Efficient Multi-zone Management

You can create and set up mowing tasks for each area, creating channels between them. LUBA can save your preferred pattern, scheduled mowing time and mowing height for each mowing area.



75%
Slope

Perimeter Wire Free Robot Lawn Mower

How it works

◉ Quick Setup Without Perimeter Cable

You can use Mammotion App to set up virtual boundaries and the mowing schedule of the cutting zones, no-go zones and different mowing modes the hassle of digging or burying the wires.

◉ RTK and Multi-Sensor Integrated Navigation System

RTK is a satellite navigation system that significantly improves device positioning. With access to all four global navigation systems and additional sensors, LUBA's strong satellite signal provides nearly 100x greater accuracy than traditional GPS systems. The advanced RTK system enables precise positioning for LUBA within 2cm (0.8 inch) of accuracy without installing cumbersome boundary and perimeter wires.

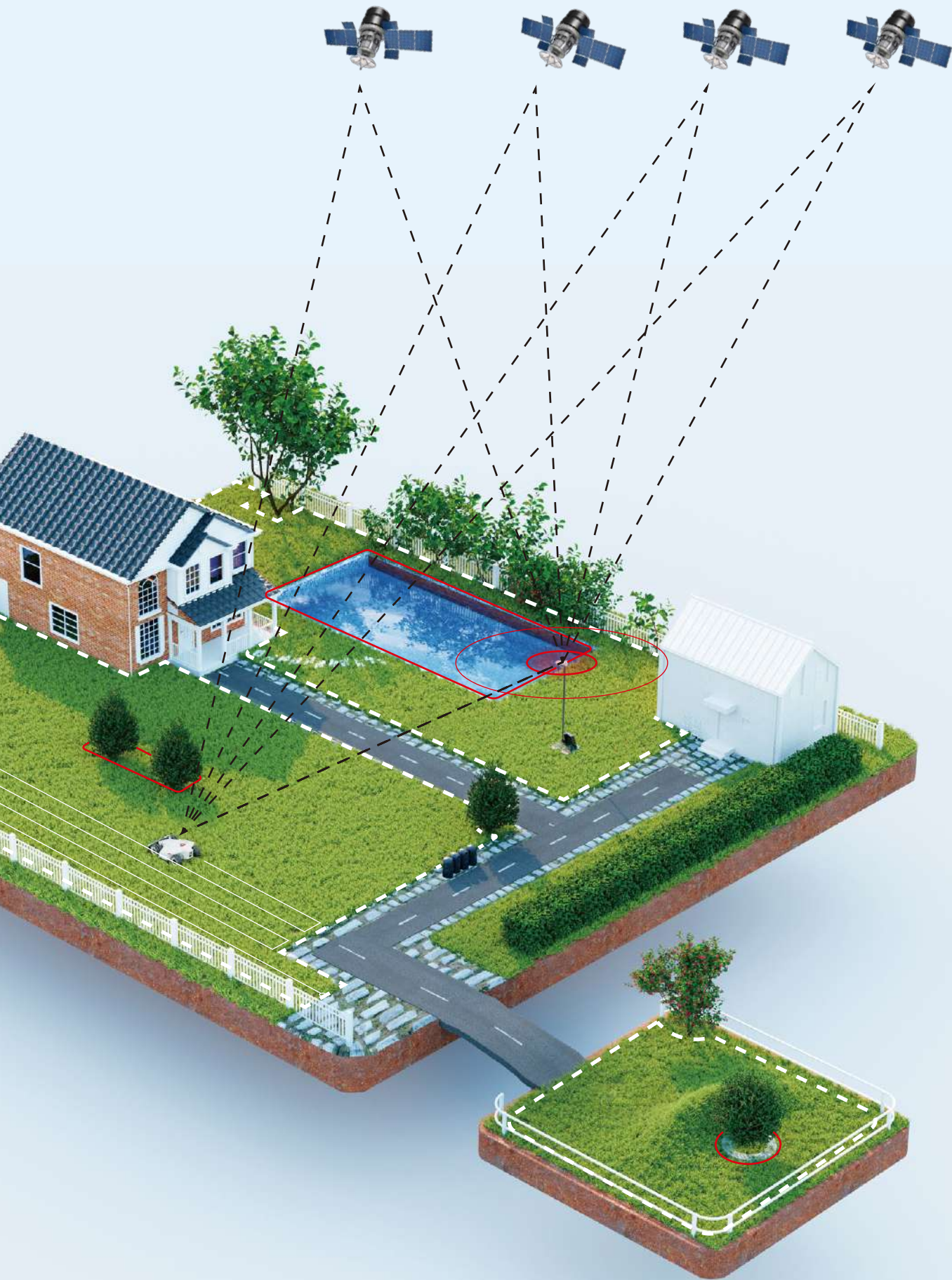
◉ Efficient Multi-zone Management

Simply create and set mowing tasks for separate mowing areas and add connecting paths in the app under multi-zone management.

◉ Customize Your Mowing

With the Mammotion App, you can find better lawn care solutions by choosing different mowing modes, setting mowing schedules, adjusting the cutting heights, customizing different working areas, and seeing real-time mowing routes.





A Better Mowing Option for All Types of Lawns

The LUBA AWD Series robot lawn mowers adopt the all-wheel-drive (AWD) system that optimizes LUBA's mowing capabilities. They are ideal for all types of lawns, including large, complex lawns and rough terrain, and can mow lawns up to **5000m² (1.25 acres)**. It also has the best mowing efficiency and off-road capabilities, capable of climbing up to a 75% slope.



Complex Lawns



Steep Slopes

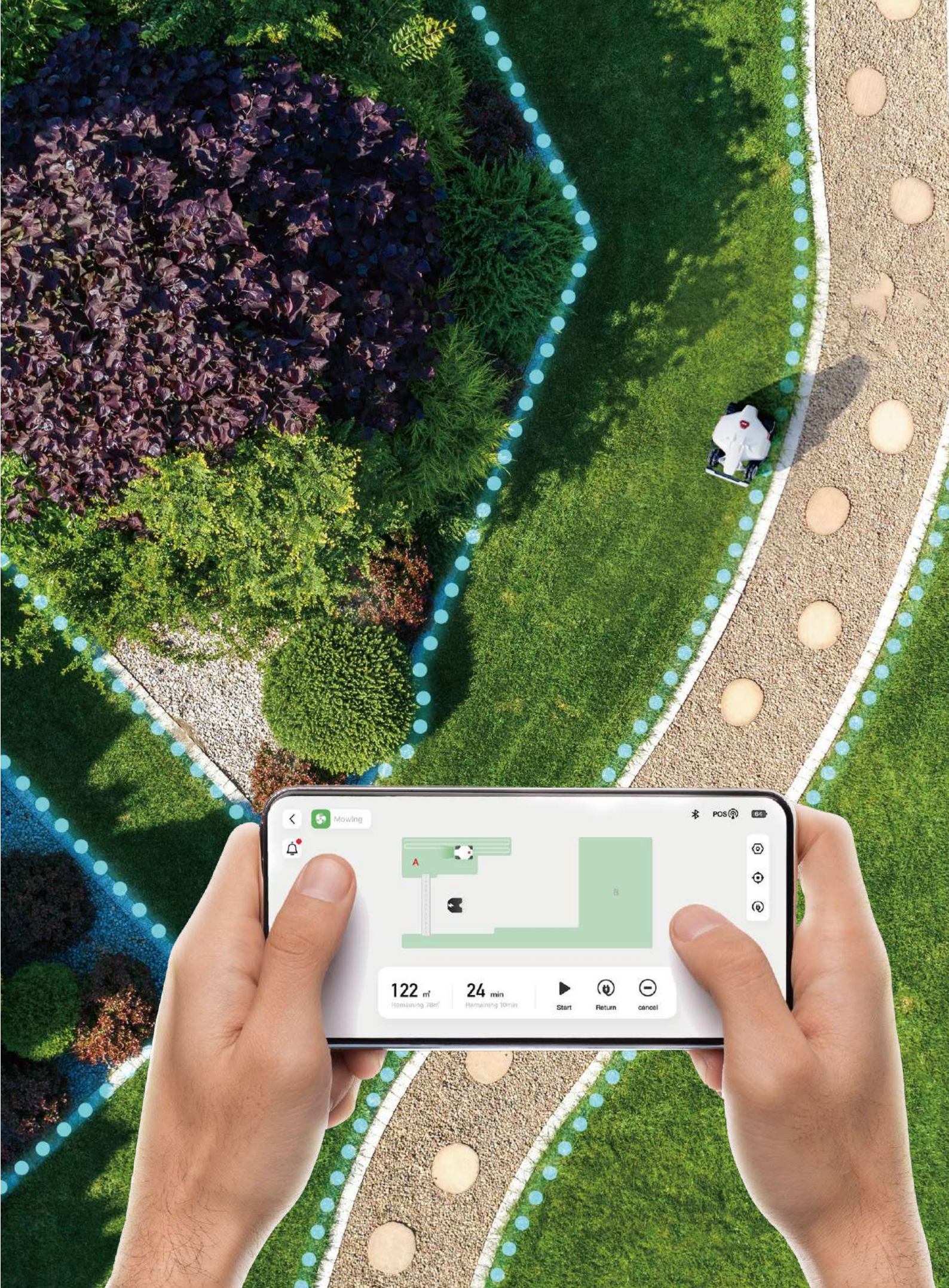


Potholes




Obstacles








< Mowing Bluetooth POS 64%



122 m² **24 min**

Remaining 28% Remaining 10min

Start Return Cancel



Discover a Smarter Way to Mow Your Lawn



Mowing At Your Fingertips

Thanks to the intelligent RTK and Multi-Sensor Integrated Navigation System, you can customize your mowing task and update its settings wherever you are. You can also monitor LUBA at any time, giving you a smarter and truly hands-free mowing experience.



Obstacle Avoidance

Four ultrasonic radars that can automatically detect obstacles as small as 5cm (2 inches) with the Field of View (FOV) of 220 degrees.



Planned Route Modes

Compared to the disorderly collision mowing of conventional robotic mowers, the planned route algorithm significantly improves LUBA's mowing efficiency



Auto-recharging

LUBA finds its way back to the charging station automatically and continues the interrupted mowing session.



Automatic Rain Detection

The advanced rain sensor enables LUBA to return to the charging station when it detects rain and will continue the interrupted mowing task when the rain stops.



Anti-theft System

LUBA will be automatically locked when it leaves your GEO fence. You will receive an alert via Mammotion App when LUBA is potentially theft.

Robust Safety Features

Front Bumper ▶

Mowing in another direction when encountering hard objects.

Lift/Tilt Sensor ▶

Stop spinning blades when LUBA is lifted or unbalanced.

4 Ultrasonic Radars ▶

Smart obstacle avoidance with 220°FOV.

Dual Cutting Plates ▶

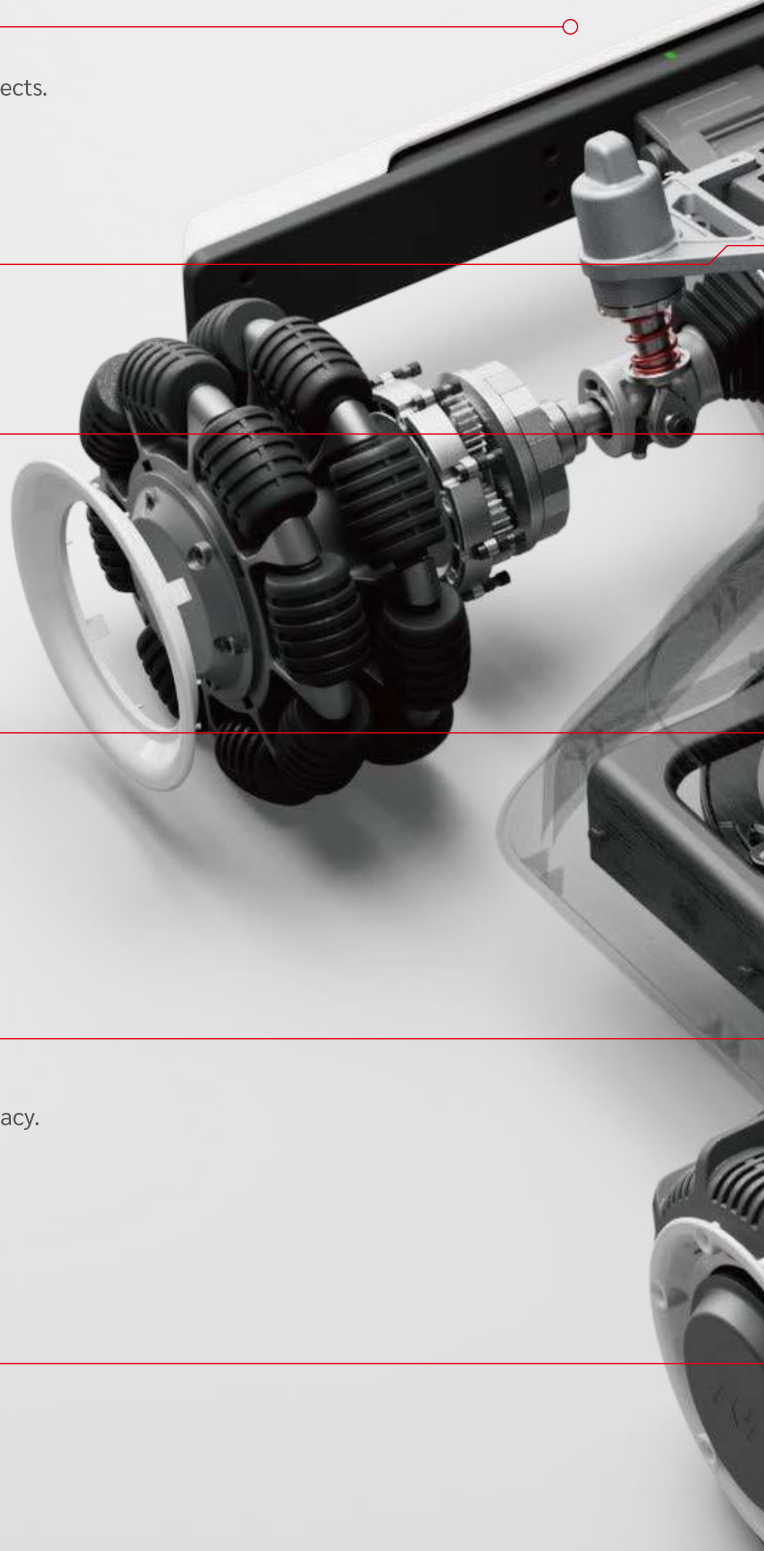
Cutting width: 400mm
Adjustable cutting height: 30-70mm

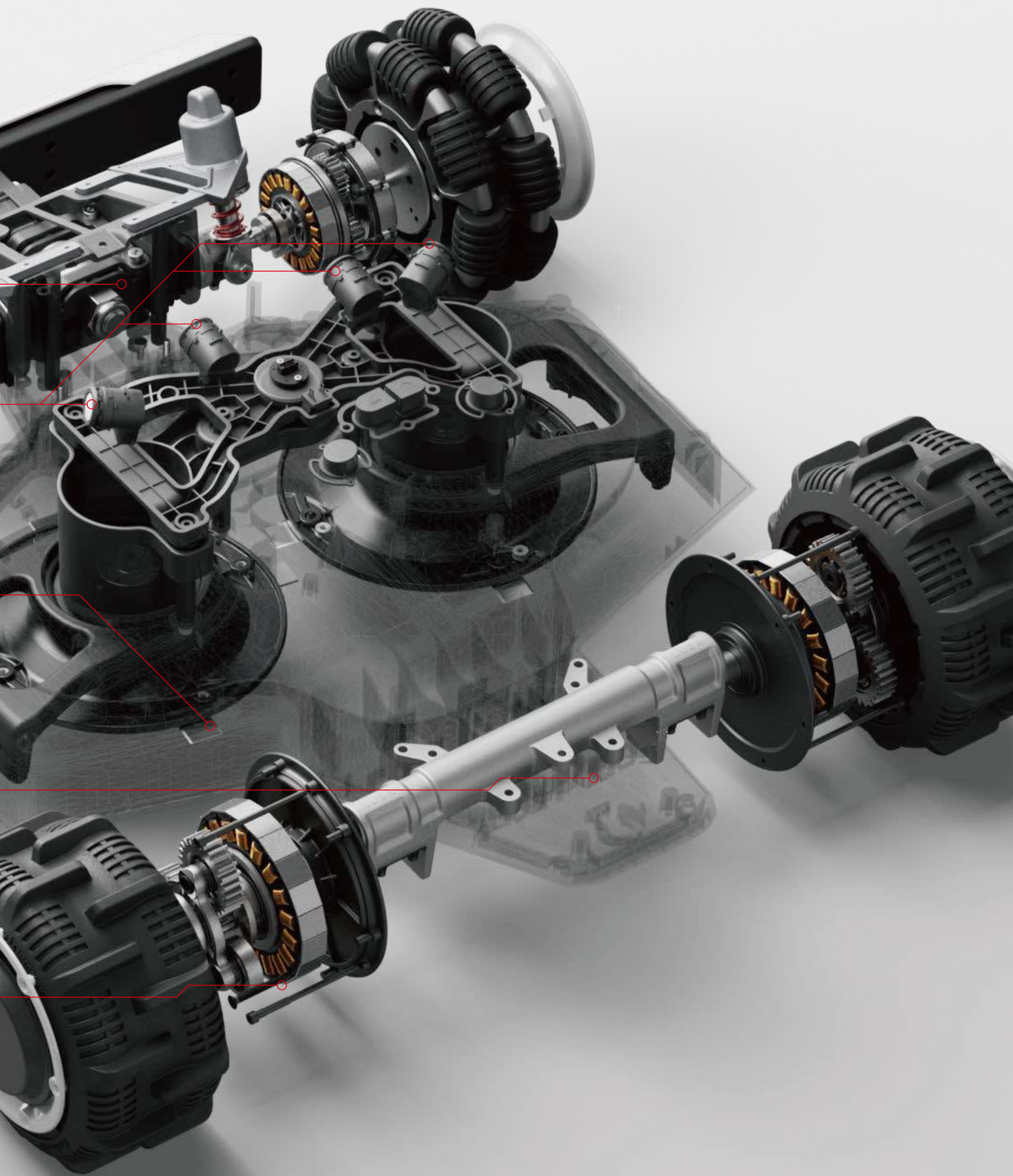
RTK and Multi-Sensor Integrated Navigation System ▶

Enables precise positioning for LUBA within 2cm of accuracy.

All-wheel Drive System ▶

LUBA's four-wheel hub motor and rugged tires provide best-in-class power capability.





Which LUBA is right for you?

Models	LUBA AWD 5000	LUBA AWD 3000	LUBA AWD 1000
Lawn Size	Up to 5000m ² (1.25 acres)	Up to 3000m ² (0.75 acres)	Up to 1000m ² (0.25 acres)
In-App Area Storage Capacity	5500m ² (1.35 acres)	3300m ² (0.81 acres)	1100m ² (0.27 acres)
Engine	All-Wheel Drive (AWD)	All-Wheel Drive (AWD)	All-Wheel Drive (AWD)
Max.Climbing Ability	75% slope(37°)	65% slope(33°)	65% slope(33°)
Vertical Obstacle Passing Ability	50 mm	50 mm	50 mm
Cutting Height	30-70 mm (1.2-2.8 in.)	30-70mm (1.2-2.8 in.)	30-70mm (1.2-2.8 in.)
Cutting Width	400mm (15.7 in.)	400mm (15.7 in.)	400mm (15.7 in.)
Area Capacity Per Hour, Max	500m ² (5300 ft ²)	350m ² (5300 ft ²)	350m ² (5300 ft ²)
Battery Capacity	10Ah	10Ah	4.5Ah
Typical Charging Time	150 mins	150 mins	90 mins
Mowing Time on One Charge	3h	3h	2h
Charging System	Automatic	Automatic	Automatic
Battery Type	Lithium-Ion	Lithium-Ion	Lithium-Ion
Virtual Boundary	Yes	Yes	Yes
Auto-Navigation	Yes	Yes	Yes
Plan Cutting Modes	Yes	Yes	Yes
Max.Zone Management	10	6	3
Obstacle Detection and Avoidance	Yes	Yes	Yes
No-go-zone	Yes	Yes	Yes
Rain Sensor	Yes	Yes	Yes
Connectivity	Bluetooth®, Wi-Fi	Bluetooth®, Wi-Fi	Bluetooth®, Wi-Fi
User Interface	Mammotion App	Mammotion App	Mammotion App
Mowing Schedule	Yes	Yes	Yes
Firmware Update	FOTA	FOTA	FOTA
Anti-theft	Yes	Yes	Yes
Lift Sensor	Yes	Yes	Yes
Tilt Sensor	Yes	Yes	Yes
Waterproof Level	IPX6	IPX6	IPX6
Noise Level	60dB	60dB	60dB
Product size	70D*53W*25H cm	70D*53W*25H cm	70D*53W*25H cm





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