



BLADEMATE



BladeMate **AI** Mower

More Accurate Navigation and Detection of Objects by AI

Hands-free Robotic Mower

3-step quick start

Unbox, installation, push the button, that is all.

No boundary cable, no manual mapping, only perfect lawn.



No Perimeter Cable



Straight Lines
with Path Planning



Automatic-Mapping



Obstacles Avoidance



Multi-zone Management



No-go Zone



Smart APP



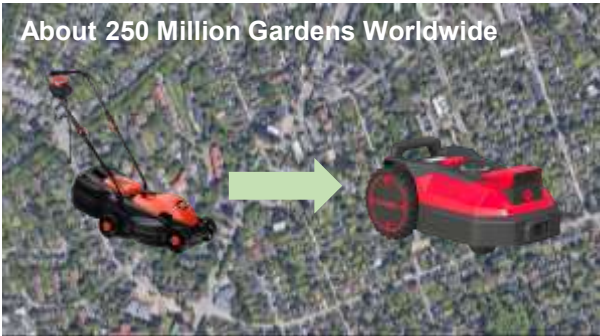
IPX6 Waterproof



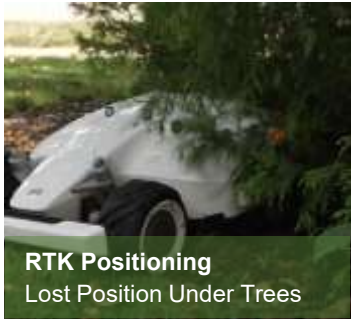
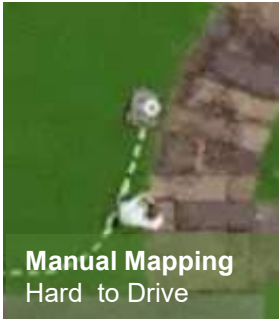
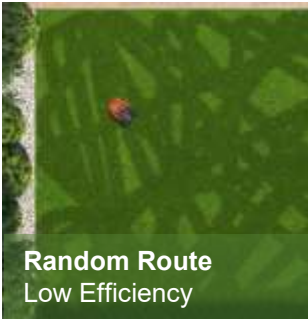
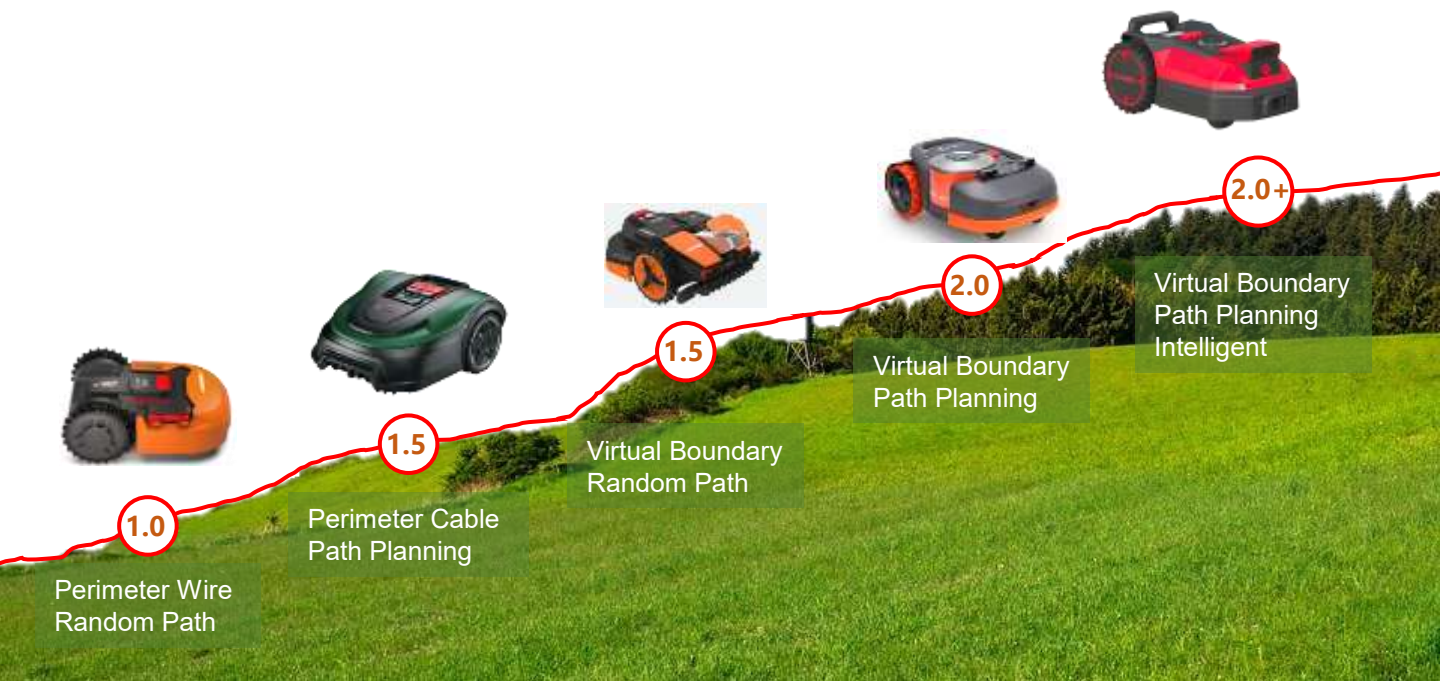
40% Slope

Mower market size has accounted for 1/3 of the global OPE market, and China's mower exports are growing rapidly with a high growth rate of 20%

According to Statista, the global OPE (outdoor Power Equipment) market size reached approximately USD 33.56 billion in 2022 and is expected to grow at a CAGR 5.6% to reach USD 44.07 billion from 2022 to 2027. Among them, lawnmowers dominate the OPE market. With the rapid development of lithium technology and the acceleration of lithium penetration, the CAGR of lithium OPE is expected to reach 9% from 2020 to 2025, far exceeding other OPE.



The Europe and North America region is the key sales market for the OPE, accounting for more than 85% of the global market. These two regions are attracting attention due to their mature consumer groups, extensive outdoor spaces, and demand for high-quality outdoor power equipment. According to Chinese customs statistics, in 2022, China's exports of lawn mowers reached 3.89 billion US dollars, with a five-year CAGR of 20%. The main export destinations are the United States, Germany, France, the United Kingdom and other countries.



binocular camera visual positioning with 3D perception technology



Utilizing binocular camera visual positioning with 3D perception technology, it achieves seamless coverage and precise positioning even in complex terrains such as urban areas, wooded zones, and mountainous regions. Continuous and stable work without being affected by the environment, every inch of the lawn—whether in the front yard or backyard—is accurately mapped, ensuring efficient and consistent mowing performance.

Unmatched Adaptation to Your Lawn



Featuring an advanced positioning system with 3D vision technology, it operates independently without the need for RTK base stations. Ready to use immediately upon activation, the BladeMate S1 offers a simple and highly efficient user experience. It can rapidly scan and map the entire yard, creating a virtual lawn layout with centimeter-level precision, all without requiring any fixed base stations or buried boundary wires.

Set Virtual Boundary Automatically

With our robotic mower, you'll never install the perimeter wire. It uses Starlink-enhanced network positioning data, get work in challenging environment, such as under trees, near walls. It's 100% wire-free. Benefit from the camera sensor and the AI algorithm, allowing the mower to detect border of lawn, set virtual boundary automatically with click one button.

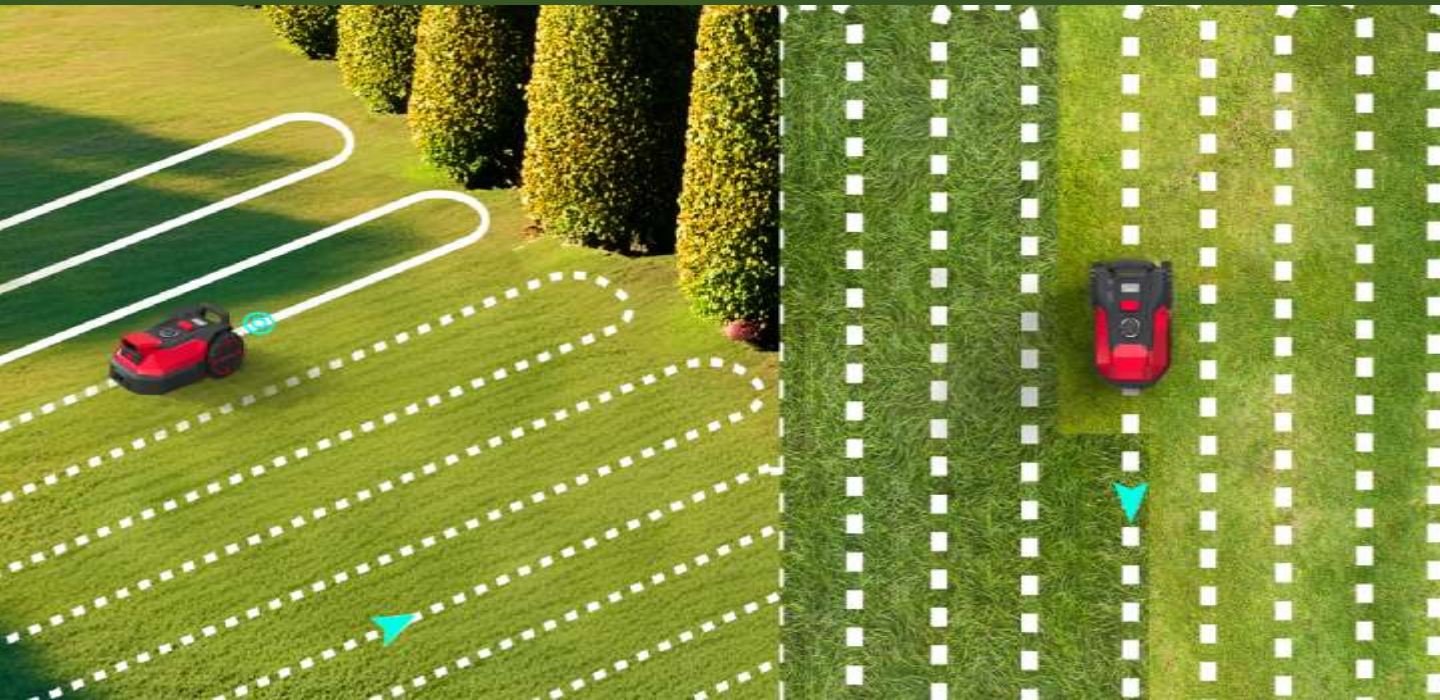
Intelligent Path Planning

Find a better route to a greener lawn. The mower can calculate the quickest route to cut your lawn, saving time and energy.



Neat Paths, Perfect Lawn, Seamless Pause and Resume

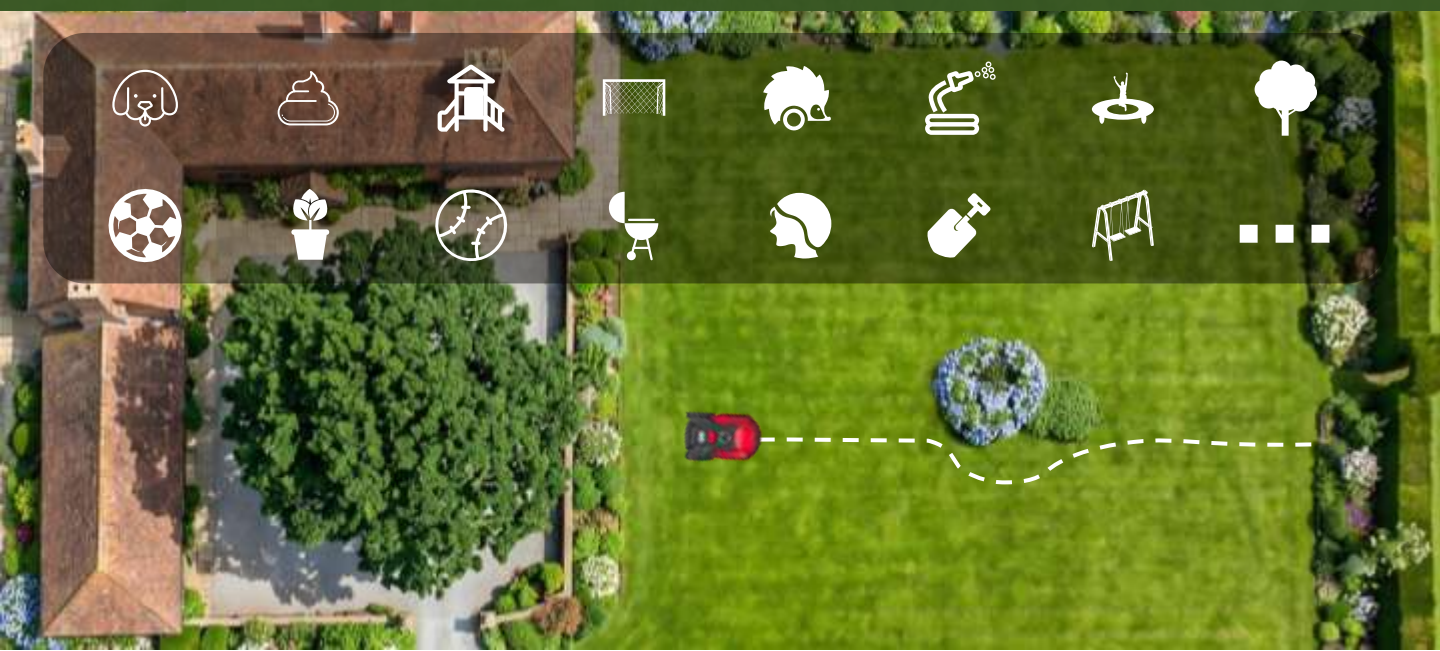
The robotic mower intelligently adapts to the shape of yourlawn for efficient, orderly path planning. It mows in a systematic back-and-forth pattern to save both time and energy. When battery runs low or rain is detected duringoperation, it automatically returns to the charging dock.Once recharged or weather conditions improve, the mower resumes precisely from where it left off, ensuring completeand uninterrupted lawn coverage every time.



Powered By AI Camera

AI Obstacles Avoidance

The robotic mower advanced 3D Vision and AI technology works like human eyes, detects, identifies, and avoids obstacles in real time. It dynamically adjusts paths based on object size and location, ensuring safe and seamless mowing for every corner of your lawn.



AI Border Recognition

The robotic mower will identify boundaries of yard with AI camera. It knows where is grass, and where is boundary not to cross.



Yard Security

The camera capture real-time yard videos to provide all-around protection. Disabled by default.

One For Your All Yard



The charging station usually install in back yard, this is the main area. Make a secondary area for front yard if back yard and front yard are not connected with a passage. Use secondary area operating mode to cut secondary area. You just take the product manually between the main area and the secondary area. The mower cuts front yard until it finishes the work or the battery is empty. One mower for your back yard and front yard.

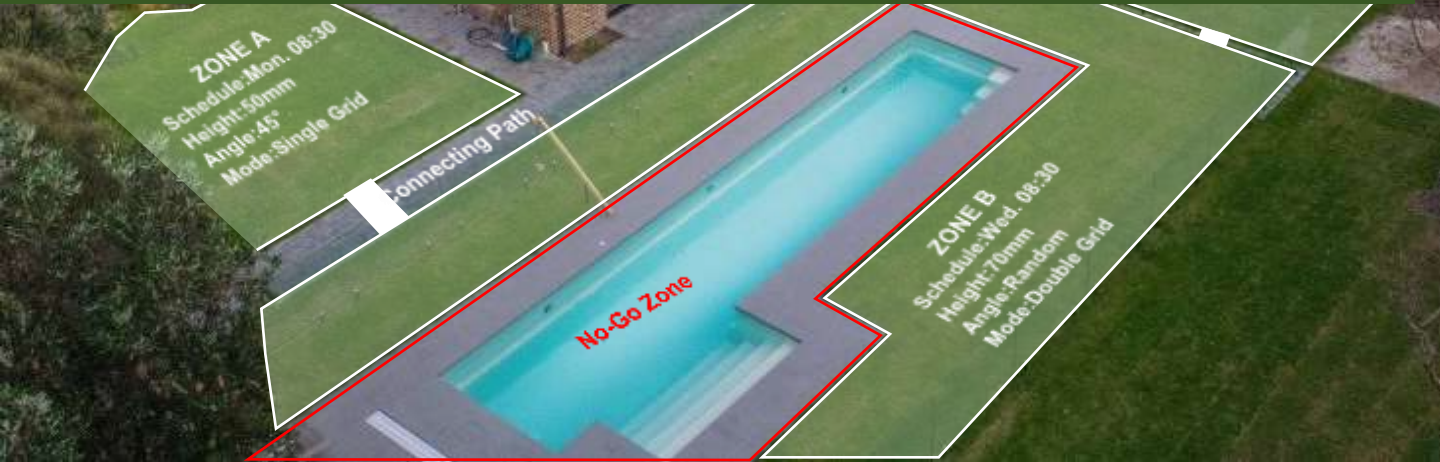
Random Exit Angle

If you don't like mowing stripe and want your lawn to be even like a blanket, you should use random exit angle.



Multi-zone Management

If your lawn divided into several zones, just create and set mowing tasks for separate mowing areas and add connecting paths in the smart app. No-Go Zones mean you can protect certain areas of your lawn, like a vegetable patch or a swimming pool.



IPX6 Waterproof for Easier Clean

The entire body is rated at IPX6 waterproofing. It means not only can it handle wet grass or some light rain, but you can clean the mud off the tires and clippings off the mower with a simple hose down.



Intelligent Rain Sensor

The advanced rain sensor enables mower to interact intelligently with its environment, when it's raining, the mower will automatically go back to the charging station and adjusts its schedule accordingly. With real-time weather adaptation, we will protect your lawn from damage. The rain sensor can be disabled for your need.



Manual Setting Easier For The Old

You can mapping your lawn with one button on the mower if there isn't multi-zone of the lawn, and then setup mowing schedule and cutting height by the control panel, a perfect, healthy lawn for you.



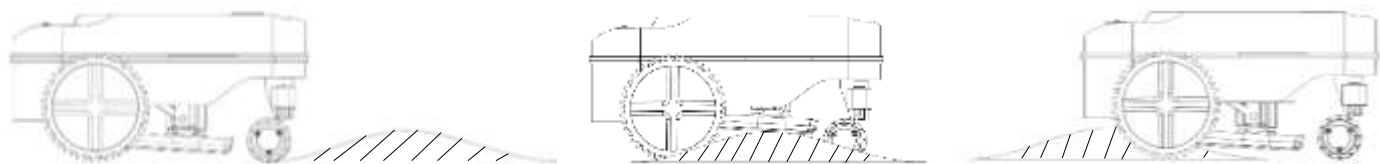
APP and Amazon Alexa

Almost every function could be made by the mower directly. If you want operate everything at home, office, etc. use the app. Enjoy other upcoming features and performance improvements with the OTA update in the app. When connected to Amazon Alexa, it makes the mower a natural and fully integrated part of your home automation system, and control it by voice commands.

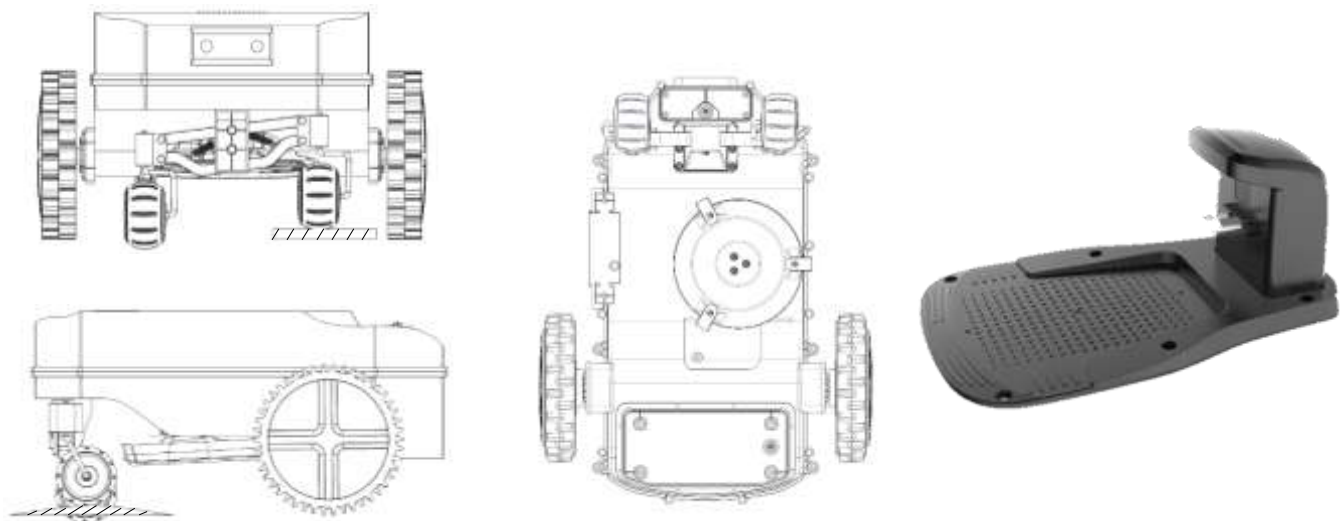




Featured Structural Design



Floating cutting system automatically adjusts the blade’s height to match the natural unevenness found in most lawns. It can protect your turf and blades.



Floating front wheel component design to improve its passability.

The special offset blade gets as close as possible to the border of your lawn, leaving you little or no trimming to do.

Integrated design of charging piles makes the garden more beautiful

Function introduction and quotation	
Working Capacity(m²)	500
Battery Capacity(Ah)	20V 2.5 Ah (5 Ah optional)
Dimensions(mm)	500 × 400 × 290
Nominal Voltage(V)	20
Cutting Height(mm)	20-60
Cutting Width(mm)	180
Border Trimming Width(mm)	100~150
Noise Sound Level(dB)	58
Max. Slope	45%
IP Rating	IPX5
Automatic Charging	Y
AI Obstacles Avoidance	Y
AI Border Recognition	Y
No-go Zone	Y
Border Trimming	Y
Breakpoint Record	Y
Intelligent Cut Path	Y
Intelligent Bailed Out	Y
Multi-zone Management	Y
Rain Sensor	Y
Floating Cutting System	N
Electric Cutting Height Adjustment	N
Floating Front Wheel	Y
Secondary Area	Y
Smart-App	Y
4G GPS Location Tracking	Optional
Connectivity	BT/WIFI/4G
Update Option	OTA