

Global Robot Lawn Mowers Without Boundary Wire Market Growth 2026-2032

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Abstracts

The global Robot Lawn Mowers Without Boundary Wire market size is predicted to grow from US\$ 678 million in 2025 to US\$ 1938 million in 2032; it is expected to grow at a CAGR of 16.2% from 2026 to 2032.

A robot lawn mower without boundary wire is an autonomous lawn mowing system that operates without physical perimeter cables. Instead, it uses technologies such as RTK-GNSS positioning, LiDAR, AI vision, and sensor fusion to create virtual boundaries, enabling fully automated mapping, navigation, and mowing. In 2025, global robot lawn mower without boundary wire production reached approximately 349.23 K Units. Upstream includes RTK-GNSS modules, LiDAR sensors, cameras, motors, batteries, and control electronics. Downstream applications include residential lawns, commercial landscaping, golf courses, municipal green spaces, and property maintenance services. The industry is rapidly evolving from traditional boundary-wire systems to fully wire-free intelligent mowing solutions driven by RTK positioning and AI perception.

Wire-free robotic lawn mowers have become one of the fastest-growing segments in the global outdoor robotics industry. Compared with traditional robotic mowers that require buried perimeter wires, next-generation systems use RTK-GNSS positioning, AI vision, LiDAR, and multi-sensor fusion technologies to create virtual boundaries and autonomous navigation capabilities. This significantly reduces installation complexity and improves user experience, accelerating the transition toward fully intelligent lawn care systems. The industry is rapidly shifting from the traditional 'boundary-wire era' to the 'wire-free era.' Conventional robotic lawn mowers have long suffered from high installation costs, difficult lawn modifications, and frequent maintenance of buried wires. With the maturation of RTK positioning and AI perception technologies, users can now create virtual maps and manage multiple mowing zones through mobile apps, making

deployment much easier and more consumer-friendly. This trend is particularly strong in Europe and North America, where DIY lawn management culture is well established.

LP Information, Inc. (LPI) ' newest research report, the "Robot Lawn Mowers Without Boundary Wire Industry Forecast" looks at past sales and reviews total world Robot Lawn Mowers Without Boundary Wire sales in 2025, providing a comprehensive analysis by region and market sector of projected Robot Lawn Mowers Without Boundary Wire sales for 2026 through 2032. With Robot Lawn Mowers Without Boundary Wire sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Robot Lawn Mowers Without Boundary Wire industry.

This Insight Report provides a comprehensive analysis of the global Robot Lawn Mowers Without Boundary Wire landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Robot Lawn Mowers Without Boundary Wire portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Robot Lawn Mowers Without Boundary Wire market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Lawn Mowers Without Boundary Wire and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Robot Lawn Mowers Without Boundary Wire.

This report presents a comprehensive overview, market shares, and growth opportunities of Robot Lawn Mowers Without Boundary Wire market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

RTK-GNSS

LiDAR + SLAM

AI Vision

Multi-sensor Fusion

Segmentation by Operating Area:

Small (

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Robot Lawn Mowers Without Boundary Wire Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Robot Lawn Mowers Without Boundary Wire by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Robot Lawn Mowers Without Boundary Wire by Country/Region, 2021, 2025 & 2032

2.2 Robot Lawn Mowers Without Boundary Wire Segment by Type

- 2.2.1 RTK-GNSS
- 2.2.2 LiDAR + SLAM
- 2.2.3 AI Vision
- 2.2.4 Multi-sensor Fusion
- 2.2.5 Robot Lawn Mowers Without Boundary Wire Sales by Type
 - 2.2.5.1 Global Robot Lawn Mowers Without Boundary Wire Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Robot Lawn Mowers Without Boundary Wire Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Robot Lawn Mowers Without Boundary Wire Sale Price by Type (2021-2026)

2.3 Robot Lawn Mowers Without Boundary Wire Segment by Operating Area

- 2.3.1 Small (

List Of Tables

LIST OF TABLES

Table 1. Robot Lawn Mowers Without Boundary Wire Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Robot Lawn Mowers Without Boundary Wire Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of RTK-GNSS

Table 4. Major Players of LiDAR + SLAM

Table 5. Major Players of AI Vision

Table 6. Major Players of Multi-sensor Fusion

Table 7. Global Robot Lawn Mowers Without Boundary Wire Sales by Type (2021-2026) & (K Units)

Table 8. Global Robot Lawn Mowers Without Boundary Wire Sales Market Share by Type (2021-2026)

Table 9. Global Robot Lawn Mowers Without Boundary Wire Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Robot Lawn Mowers Without Boundary Wire Revenue Market Share by Type (2021-2026)

Table 11. Global Robot Lawn Mowers Without Boundary Wire Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Small (

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Robot Lawn Mowers Without Boundary Wire
- Figure 2. Robot Lawn Mowers Without Boundary Wire Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Robot Lawn Mowers Without Boundary Wire Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Robot Lawn Mowers Without Boundary Wire Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Robot Lawn Mowers Without Boundary Wire Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Robot Lawn Mowers Without Boundary Wire Sales Market Share by Country/Region (2025)
- Figure 10. Robot Lawn Mowers Without Boundary Wire Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of RTK-GNSS
- Figure 12. Product Picture of LiDAR + SLAM
- Figure 13. Product Picture of AI Vision
- Figure 14. Product Picture of Multi-sensor Fusion
- Figure 15. Global Robot Lawn Mowers Without Boundary Wire Sales Market Share by Type in 2026
- Figure 16. Global Robot Lawn Mowers Without Boundary Wire Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Small (

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