

# **Autonomous and Unmanned Ground Robots Market - A Global and Regional Analysis: Focus on Mining, Construction and Agriculture**

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## **Abstracts**

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This report will be delivered in 7-10 working days. Introduction to the Global Autonomous and Unmanned Ground Robots Market (Including Market in 2024 and 2035)

The Global Autonomous and Unmanned Ground Robots Market is experiencing a notable surge in adoption, particularly across industries such as mining, construction, and agriculture. In 2024, market growth is propelled by strong demand for automation and increased focus on improving efficiency and safety in environments where manual labor can be high-risk or cost-intensive. Organizations are turning to autonomous and unmanned ground solutions to perform tasks like hauling, excavation, planting, surveillance, and inspection. These robots reduce downtime, mitigate accidents, and streamline daily operations, making them attractive investments for businesses of varying scales.

## **Regional Analysis**

Asia-Pacific is widely regarded as the leading region in the Global Autonomous and Unmanned Ground Robots Market, underpinned by extensive infrastructure projects, strong manufacturing ecosystems, and supportive government policies. China, Japan, and South Korea exemplify this leadership through aggressive research and development initiatives, advanced production capabilities, and wide-scale adoption of automated solutions in mining, construction, and large-scale agriculture. As local companies scale up operations, robust competition also stimulates rapid innovation and

price optimization.

## Segments in the Global Autonomous and Unmanned Ground Robots Market

### By Application

Mining

Open Pit Mining

Underground

Construction

Industrial and Commercial

Residential

Agriculture

Field Robots

Indoor Farming Robots

### By Mining Type

Coal

Metalliferous

Others

### By Product

Mining Robots

Automated Haulage Systems (AHS) Robots

Drilling & Blasting Robots

Excavation Robots

Inspection & Surveillance Robots

Material Handling Robots

Construction Robots

Excavation & Earthmoving Robots

Inspection & Surveillance Robots

Material Handling Robots

Site Preparation Robots

Demolition Robots

Agriculture Robots

Autonomous Tractors

Robotic Sprayers & Fertilizers

Robotic Seeders & Planters

Harvesting Robots

Crop Monitoring & Surveillance Robots

## By Type

Autonomous

Semi-Autonomous

## By Region

North America

Europe

Asia-Pacific

Rest-of-the-World

## Trend in the Market

A notable trend in the Global Autonomous and Unmanned Ground Robots Market is the rapid advancement of AI-driven sensing and navigation capabilities. Modern robots leverage cutting-edge sensors ranging from LiDAR to machine vision to map and interpret their surroundings in real time. This level of environmental awareness enables them to operate safely and efficiently in unpredictable terrains, whether in open-pit mines, large-scale construction sites, or varied agricultural fields. Additionally, developments in machine learning allow robots to learn from past operations, refining their routes and decision-making processes for greater productivity.

Some prominent names established in this market are:

Autonomous Solutions, Inc. (ASI)

SafeAI

OffWorld

Exyn Technologies

Fortescue Metals Group

Built Robotics

Robotic Systems Integration (RSI)

Wolf Robotics

Cyngn

John Deere

Burro

Monarch Tractor

Tevel Aerobotics Technologies

Guardian Agriculture

AgXeed

## Contents

Executive Summary  
Scope and Definition  
Market/Product Definition  
Key Questions Answered  
Analysis and Forecast Note

### **1. MARKETS: INDUSTRY OUTLOOK**

1.1 Trends: Current and Future Impact Assessment  
1.2 R&D Review  
    1.2.1 Patent Filing Trend by Country, by Company  
1.3 Stakeholder Analysis  
    1.3.1 Use Case  
    1.3.2 End User and Buying Criteria  
1.4 Market Dynamics Overview  
    1.4.1 Market Drivers  
    1.4.2 Market Restraints  
    1.4.3 Market Opportunities  
1.5 Startup Landscape  
    1.5.1 Key Startups by Funding  
    1.5.2 Key Investors  
    1.5.3 Investments by Regions

### **2. AUTONOMOUS AND UNMANNED GROUND ROBOTS MARKET (BY APPLICATION)**

2.1 Application by Product Segmentation  
2.2 Application by Product Summary  
2.3 Autonomous and Unmanned Ground Robots Market (by Application)  
    2.3.1 Mining  
        2.3.1.1 Open Pit Mining  
        2.3.1.2 Underground  
    2.3.2 Construction  
        2.3.2.1 Industrial and Commercial  
        2.3.2.2 Residential  
    2.3.3 Agriculture  
        2.3.3.1 Field Robots

#### 2.3.3.2 Indoor Farming Robots

### 2.4 Autonomous and Unmanned Ground Robots Market (by Mining type)

#### 2.4.1 Coal

#### 2.4.2 Metalliferous

#### 2.4.3 Others

## 3. AUTONOMOUS AND UNMANNED GROUND ROBOTS MARKET (BY PRODUCT)

### 3.1 Product Segmentation

### 3.2 Product Summary

### 3.3 Autonomous and Unmanned Ground Robots Market (by Type)

#### 3.3.1 Mining Robots

##### 3.3.1.1 Automated Haulage Systems (AHS) Robots

##### 3.3.1.2 Drilling & Blasting Robots

##### 3.3.1.3 Excavation Robots

##### 3.3.1.4 Inspection & Surveillance Robots

##### 3.3.1.5 Material Handling Robots

#### 3.3.2 Construction

##### 3.3.2.1 Excavation & Earthmoving Robots

##### 3.3.2.2 Inspection & Surveillance Robots

##### 3.3.2.3 Material Handling Robots

##### 3.3.2.4 Site Preparation Robots

##### 3.3.2.5 Demolition Robots

#### 3.3.3 Agriculture

##### 3.3.3.1 Autonomous Tractors

##### 3.3.3.2 Robotic Sprayers & Fertilizers

##### 3.3.3.3 Robotic Seeders & Planters

##### 3.3.3.4 Harvesting Robots

##### 3.3.3.5 Crop Monitoring & Surveillance Robots

Note: Above Segments may change based on client suggestions and research outcomes.

### 3.4 Autonomous and Unmanned Ground Robots Market (by Type)

#### 3.4.1 Autonomous

#### 3.4.2 Semi-Autonomous

## 4. AUTONOMOUS AND UNMANNED GROUND ROBOTS MARKET (BY REGION)

### 4.1 Autonomous and Unmanned Ground Robots Market (by Region)

### 4.2 North America

- 4.2.1 Regional Overview
- 4.2.2 Driving Factors for Market Growth
- 4.2.3 Factors Challenging the Market
- 4.2.4 Application
- 4.2.5 Product
- 4.2.6 U.S.
  - 4.2.6.1 Market by Application
  - 4.2.6.2 Market by Product
- 4.2.7 Canada
  - 4.2.7.1 Market by Application
  - 4.2.7.2 Market by Product
- 4.2.8 Mexico
  - 4.2.8.1 Market by Application
  - 4.2.8.2 Market by Product
- 4.3 Europe
  - 4.3.1 Regional Overview
  - 4.3.2 Driving Factors for Market Growth
  - 4.3.3 Factors Challenging the Market
  - 4.3.4 Application
  - 4.3.5 Product
  - 4.3.6 Germany
    - 4.3.6.1 Market by Application
    - 4.3.6.2 Market by Product
  - 4.3.7 France
    - 4.3.7.1 Market by Application
    - 4.3.7.2 Market by Product
  - 4.3.8 U.K.
    - 4.3.8.1 Market by Application
    - 4.3.8.2 Market by Product
  - 4.3.9 Italy
    - 4.3.9.1 Market by Application
    - 4.3.9.2 Market by Product
  - 4.3.10 Netherlands
    - 4.3.10.1 Market by Application
    - 4.3.10.2 Market by Product
  - 4.3.11 Rest-of-Europe
    - 4.3.11.1 Market by Application
    - 4.3.11.2 Market by Product
- 4.4 Asia-Pacific

- 4.4.1 Regional Overview
- 4.4.2 Driving Factors for Market Growth
- 4.4.3 Factors Challenging the Market
- 4.4.4 Application
- 4.4.5 Product
- 4.4.6 China (including Hong Kong)
  - 4.4.6.1 Market by Application
  - 4.4.6.2 Market by Product
- 4.4.7 Japan
  - 4.4.7.1 Market by Application
  - 4.4.7.2 Market by Product
- 4.4.8 South Korea
  - 4.4.8.1 Market by Application
  - 4.4.8.2 Market by Product
- 4.4.9 Australia
  - 4.4.9.1 Market by Application
  - 4.4.9.2 Market by Product
- 4.4.10 Rest-of-Asia-Pacific
  - 4.4.10.1 Market by Application
  - 4.4.10.2 Market by Product
- 4.5 Rest-of-the-World
  - 4.5.1 Regional Overview
  - 4.5.2 Driving Factors for Market Growth
  - 4.5.3 Factors Challenging the Market
  - 4.5.4 Application
  - 4.5.5 Product
  - 4.5.6 South America
    - 4.5.6.1 Market by Application
    - 4.5.6.2 Market by Product
  - 4.5.7 Middle East and Africa
    - 4.5.7.1 Market by Application
    - 4.5.7.2 Market by Product

## **5. MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES**

- 5.1 Next Frontiers
- 5.2 Geographic Assessment
- 5.3 Company Profiles
  - 5.3.1 Autonomous Solutions, Inc. (ASI)

- 5.3.1.1 Overview
- 5.3.1.2 Top Products/Product Portfolio
- 5.3.1.3 Top Competitors
- 5.3.1.4 Target Customers
- 5.3.1.5 Key Personnel
- 5.3.1.6 Analyst View
- 5.3.1.7 Market Share
- 5.3.2 SafeAI
  - 5.3.2.1 Overview
  - 5.3.2.2 Top Products/Product Portfolio
  - 5.3.2.3 Top Competitors
  - 5.3.2.4 Target Customers
  - 5.3.2.5 Key Personnel
  - 5.3.2.6 Analyst View
  - 5.3.2.7 Market Share
- 5.3.3 OffWorld
  - 5.3.3.1 Overview
  - 5.3.3.2 Top Products/Product Portfolio
  - 5.3.3.3 Top Competitors
  - 5.3.3.4 Target Customers
  - 5.3.3.5 Key Personnel
  - 5.3.3.6 Analyst View
  - 5.3.3.7 Market Share
- 5.3.4 Exyn Technologies
  - 5.3.4.1 Overview
  - 5.3.4.2 Top Products/Product Portfolio
  - 5.3.4.3 Top Competitors
  - 5.3.4.4 Target Customers
  - 5.3.4.5 Key Personnel
  - 5.3.4.6 Analyst View
  - 5.3.4.7 Market Share
- 5.3.5 Fortescue Metals Group
  - 5.3.5.1 Overview
  - 5.3.5.2 Top Products/Product Portfolio
  - 5.3.5.3 Top Competitors
  - 5.3.5.4 Target Customers
  - 5.3.5.5 Key Personnel
  - 5.3.5.6 Analyst View
  - 5.3.5.7 Market Share

### 5.3.6 Built Robotics

#### 5.3.6.1 Overview

#### 5.3.6.2 Top Products/Product Portfolio

#### 5.3.6.3 Top Competitors

#### 5.3.6.4 Target Customers

#### 5.3.6.5 Key Personnel

#### 5.3.6.6 Analyst View

#### 5.3.6.7 Market Share

### 5.3.7 Robotic Systems Integration (RSI)

#### 5.3.7.1 Overview

#### 5.3.7.2 Top Products/Product Portfolio

#### 5.3.7.3 Top Competitors

#### 5.3.7.4 Target Customers

#### 5.3.7.5 Key Personnel

#### 5.3.7.6 Analyst View

#### 5.3.7.7 Market Share

### 5.3.8 Wolf Robotics

#### 5.3.8.1 Overview

#### 5.3.8.2 Top Products/Product Portfolio

#### 5.3.8.3 Top Competitors

#### 5.3.8.4 Target Customers

#### 5.3.8.5 Key Personnel

#### 5.3.8.6 Analyst View

#### 5.3.8.7 Market Share

### 5.3.9 Cyngn

#### 5.3.9.1 Overview

#### 5.3.9.2 Top Products/Product Portfolio

#### 5.3.9.3 Top Competitors

#### 5.3.9.4 Target Customers

#### 5.3.9.5 Key Personnel

#### 5.3.9.6 Analyst View

#### 5.3.9.7 Market Share

### 5.3.10 John Deere

#### 5.3.10.1 Overview

#### 5.3.10.2 Top Products/Product Portfolio

#### 5.3.10.3 Top Competitors

#### 5.3.10.4 Target Customers

#### 5.3.10.5 Key Personnel

#### 5.3.10.6 Analyst View

- 5.3.10.7 Market Share
- 5.3.11 Burro
  - 5.3.11.1 Overview
  - 5.3.11.2 Top Products/Product Portfolio
  - 5.3.11.3 Top Competitors
  - 5.3.11.4 Target Customers
  - 5.3.11.5 Key Personnel
  - 5.3.11.6 Analyst View
  - 5.3.11.7 Market Share
- 5.3.12 Monarch Tractor
  - 5.3.12.1 Overview
  - 5.3.12.2 Top Products/Product Portfolio
  - 5.3.12.3 Top Competitors
  - 5.3.12.4 Target Customers
  - 5.3.12.5 Key Personnel
  - 5.3.12.6 Analyst View
  - 5.3.12.7 Market Share
- 5.3.13 Tevel Aerobotics Technologies
  - 5.3.13.1 Overview
  - 5.3.13.2 Top Products/Product Portfolio
  - 5.3.13.3 Top Competitors
  - 5.3.13.4 Target Customers
  - 5.3.13.5 Key Personnel
  - 5.3.13.6 Analyst View
  - 5.3.13.7 Market Share
- 5.3.14 Guardian Agriculture
  - 5.3.14.1 Overview
  - 5.3.14.2 Top Products/Product Portfolio
  - 5.3.14.3 Top Competitors
  - 5.3.14.4 Target Customers
  - 5.3.14.5 Key Personnel
  - 5.3.14.6 Analyst View
  - 5.3.14.7 Market Share
- 5.3.15 AgXeed
  - 5.3.15.1 Overview
  - 5.3.15.2 Top Products/Product Portfolio
  - 5.3.15.3 Top Competitors
  - 5.3.15.4 Target Customers
  - 5.3.15.5 Key Personnel

5.3.15.6 Analyst View

5.3.15.7 Market Share

## **6. RESEARCH METHODOLOGY**

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