

# **Autonomous Tractors Market Report by Component (LiDAR, Radar, GPS, Camera/Vision Systems, Ultrasonic Sensors, Hand-held Devices), Power Output (Less than 30 HP, 30-50 HP, 51-100 HP, More than 100HP), Crop Type (Fruits and Vegetables, Cereals and Grains, Oilseeds and Pulses), Application (Tillage, Seed Sowing, Harvesting, and Others), and Region 2024-2032**

<https://marketpublishers.com/r/A2851788700CEN.html>

Date: April 2024

Pages: 136

Price: US\$ 3,899.00 (Single User License)

ID: A2851788700CEN

## **Abstracts**

The global autonomous tractors market size reached US\$ 2.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 13.4 Billion by 2032, exhibiting a growth rate (CAGR) of 18.5% during 2024-2032.

Autonomous tractors are self-driving tractors that rely on modern technology to provide higher efficiency and minimize human intervention. Their speed, steering, braking, and navigation can be autonomously controlled using several additional systems, such as global positioning systems (GPS), lasers, and cameras. They assist farmers in real-time soil analysis, seed selection, planting, and field mapping by using computer vision, data science, and deep learning. They also aid in transforming the ways of farming and making agriculture more automated. As a result, autonomous tractors find extensive applications in the agriculture sector for tillage, harvesting, and seed sowing across the globe.

### **Autonomous Tractors Market Trends:**

At present, there is a rise in the need for increasing the efficiency of agricultural procedures as cultivable land is limited and the productivity of the farm depends on

environmental conditions. This, along with the growing focus of farmers on improving the yield of the farm, represents one of the key factors driving the market. Moreover, autonomous tractors offer optimum labor productivity by enabling farmers to manage various farming operations simultaneously. This, coupled with the escalating demand for agricultural output due to the increasing population around the world, is propelling the growth of the market. In addition, governments of several countries are extensively investing in the agriculture industry, which is positively influencing the market. Besides this, auto-steering in autonomous tractors assist farmers in farming with more reliability. In line with this, the increasing unavailability of labor, especially in developed economies, is catalyzing the demand for autonomous tractors. Additionally, the rising employment of autonomous tractors to achieve sustainable food security supported by self-sustaining agricultural mechanization strategies across the globe is stimulating the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global autonomous tractors market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, power output, crop type and application.

#### Breakup by Component:

- LiDAR
- Radar
- GPS
- Camera/Vision Systems
- Ultrasonic Sensors
- Hand-held Devices

#### Breakup by Power Output:

- Less than 30 HP
- 30-50 HP
- 51-100 HP
- More than 100HP

#### Breakup by Crop Type:

- Fruits and Vegetables

Cereals and Grains  
Oilseeds and Pulses

Breakup by Application:

Tillage  
Seed Sowing  
Harvesting  
Others

Breakup by Region:

North America  
United States  
Canada  
Asia-Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the

profiles of the key players being AutoNext Automation Pvt. Ltd., Autonomous Solutions Inc., Deere & Company, Kubota Corporation, Raven Industries Inc., Trimble Inc., Yanmar Holdong Co.Ltd. and Zimeno Inc.

### Key Questions Answered in This Report

1. What was the size of the global autonomous tractors market in 2023?
2. What is the expected growth rate of the global autonomous tractors market during 2024-2032?
3. What are the key factors driving the global autonomous tractors market?
4. What has been the impact of COVID-19 on the global autonomous tractors market?
5. What is the breakup of the global autonomous tractors market based on the component?
6. What is the breakup of the global autonomous tractors market based on the crop type?
7. What is the breakup of the global autonomous tractors market based on the application?
8. What are the key regions in the global autonomous tractors market?
9. Who are the key players/companies in the global autonomous tractors market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL AUTONOMOUS TRACTORS MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY COMPONENT**

- 6.1 LiDAR
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Radar
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 GPS

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Camera/Vision Systems
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast
- 6.5 Ultrasonic Sensors
  - 6.5.1 Market Trends
  - 6.5.2 Market Forecast
- 6.6 Hand-held Devices
  - 6.6.1 Market Trends
  - 6.6.2 Market Forecast

## **7 MARKET BREAKUP BY POWER OUTPUT**

- 7.1 Less than 30 HP
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 30-50 HP
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 51-100 HP
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 More than 100HP
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast

## **8 MARKET BREAKUP BY CROP TYPE**

- 8.1 Fruits and Vegetables
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Cereals and Grains
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Oilseeds and Pulses
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast

## **9 MARKET BREAKUP BY APPLICATION**

### **9.1 Tillage**

#### **9.1.1 Market Trends**

#### **9.1.2 Market Forecast**

### **9.2 Seed Sowing**

#### **9.2.1 Market Trends**

#### **9.2.2 Market Forecast**

### **9.3 Harvesting**

#### **9.3.1 Market Trends**

#### **9.3.2 Market Forecast**

### **9.4 Others**

#### **9.4.1 Market Trends**

#### **9.4.2 Market Forecast**

## **10 MARKET BREAKUP BY REGION**

### **10.1 North America**

#### **10.1.1 United States**

##### **10.1.1.1 Market Trends**

##### **10.1.1.2 Market Forecast**

#### **10.1.2 Canada**

##### **10.1.2.1 Market Trends**

##### **10.1.2.2 Market Forecast**

### **10.2 Asia-Pacific**

#### **10.2.1 China**

##### **10.2.1.1 Market Trends**

##### **10.2.1.2 Market Forecast**

#### **10.2.2 Japan**

##### **10.2.2.1 Market Trends**

##### **10.2.2.2 Market Forecast**

#### **10.2.3 India**

##### **10.2.3.1 Market Trends**

##### **10.2.3.2 Market Forecast**

#### **10.2.4 South Korea**

##### **10.2.4.1 Market Trends**

##### **10.2.4.2 Market Forecast**

#### **10.2.5 Australia**

##### **10.2.5.1 Market Trends**

- 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
  - 10.2.6.1 Market Trends
  - 10.2.6.2 Market Forecast
- 10.2.7 Others
  - 10.2.7.1 Market Trends
  - 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany
    - 10.3.1.1 Market Trends
    - 10.3.1.2 Market Forecast
  - 10.3.2 France
    - 10.3.2.1 Market Trends
    - 10.3.2.2 Market Forecast
  - 10.3.3 United Kingdom
    - 10.3.3.1 Market Trends
    - 10.3.3.2 Market Forecast
  - 10.3.4 Italy
    - 10.3.4.1 Market Trends
    - 10.3.4.2 Market Forecast
  - 10.3.5 Spain
    - 10.3.5.1 Market Trends
    - 10.3.5.2 Market Forecast
  - 10.3.6 Russia
    - 10.3.6.1 Market Trends
    - 10.3.6.2 Market Forecast
  - 10.3.7 Others
    - 10.3.7.1 Market Trends
    - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast



## 10.5 Middle East and Africa

### 10.5.1 Market Trends

### 10.5.2 Market Breakup by Country

### 10.5.3 Market Forecast

## 11 SWOT ANALYSIS

### 11.1 Overview

### 11.2 Strengths

### 11.3 Weaknesses

### 11.4 Opportunities

### 11.5 Threats

## 12 VALUE CHAIN ANALYSIS

## 13 PORTERS FIVE FORCES ANALYSIS

### 13.1 Overview

### 13.2 Bargaining Power of Buyers

### 13.3 Bargaining Power of Suppliers

### 13.4 Degree of Competition

### 13.5 Threat of New Entrants

### 13.6 Threat of Substitutes

## 14 PRICE ANALYSIS

## 15 COMPETITIVE LANDSCAPE

### 15.1 Market Structure

### 15.2 Key Players

### 15.3 Profiles of Key Players

#### 15.3.1 AutoNext Automation Pvt. Ltd.

##### 15.3.1.1 Company Overview

##### 15.3.1.2 Product Portfolio

#### 15.3.2 Autonomous Solutions Inc.

##### 15.3.2.1 Company Overview

##### 15.3.2.2 Product Portfolio

#### 15.3.3 Deere & Company

##### 15.3.3.1 Company Overview

- 15.3.3.2 Product Portfolio
- 15.3.3.3 Financials
- 15.3.3.4 SWOT Analysis
- 15.3.4 Kubota Corporation
  - 15.3.4.1 Company Overview
  - 15.3.4.2 Product Portfolio
  - 15.3.4.3 Financials
  - 15.3.4.4 SWOT Analysis
- 15.3.5 Raven Industries Inc.
  - 15.3.5.1 Company Overview
  - 15.3.5.2 Product Portfolio
- 15.3.6 Trimble Inc.
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
  - 15.3.6.3 Financials
- 15.3.7 Yanmar Holdong Co.Ltd.
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
- 15.3.8 Zimeno Inc.
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Autonomous Tractors Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Autonomous Tractors Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 3: Global: Autonomous Tractors Market Forecast: Breakup by Power Output (in Million US\$), 2024-2032

Table 4: Global: Autonomous Tractors Market Forecast: Breakup by Crop Type (in Million US\$), 2024-2032

Table 5: Global: Autonomous Tractors Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 6: Global: Autonomous Tractors Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Autonomous Tractors Market: Competitive Structure

Table 8: Global: Autonomous Tractors Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Autonomous Tractors Market: Major Drivers and Challenges

Figure 2: Global: Autonomous Tractors Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Autonomous Tractors Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Autonomous Tractors Market: Breakup by Component (in %), 2023

Figure 5: Global: Autonomous Tractors Market: Breakup by Power Output (in %), 2023

Figure 6: Global: Autonomous Tractors Market: Breakup by Crop Type (in %), 2023

Figure 7: Global: Autonomous Tractors Market: Breakup by Application (in %), 2023

Figure 8: Global: Autonomous Tractors Market: Breakup by Region (in %), 2023

Figure 9: Global: Autonomous Tractors (LiDAR) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Autonomous Tractors (LiDAR) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Autonomous Tractors (Radar) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Autonomous Tractors (Radar) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Autonomous Tractors (GPS) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Autonomous Tractors (GPS) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Autonomous Tractors (Camera/Vision Systems) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Autonomous Tractors (Camera/Vision Systems) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Autonomous Tractors (Ultrasonic Sensors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Autonomous Tractors (Ultrasonic Sensors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Autonomous Tractors (Hand-held Devices) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Autonomous Tractors (Hand-held Devices) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Autonomous Tractors (Less than 30 HP) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Autonomous Tractors (Less than 30 HP) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Autonomous Tractors (30-50 HP) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Autonomous Tractors (30-50 HP) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Autonomous Tractors (51-100 HP) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Autonomous Tractors (51-100 HP) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Autonomous Tractors (More than 100HP) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Autonomous Tractors (More than 100HP) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Autonomous Tractors (Fruits and Vegetables) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Autonomous Tractors (Fruits and Vegetables) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Autonomous Tractors (Cereals and Grains) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Autonomous Tractors (Cereals and Grains) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Autonomous Tractors (Oilseeds and Pulses) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Autonomous Tractors (Oilseeds and Pulses) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Autonomous Tractors (Tillage) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Global: Autonomous Tractors (Tillage) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Global: Autonomous Tractors (Seed Sowing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Global: Autonomous Tractors (Seed Sowing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Global: Autonomous Tractors (Harvesting) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Global: Autonomous Tractors (Harvesting) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Global: Autonomous Tractors (Other Application) Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 42: Global: Autonomous Tractors (Other Application) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: North America: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: North America: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: United States: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: United States: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Canada: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Canada: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Asia-Pacific: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Asia-Pacific: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: China: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: China: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Japan: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Japan: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: India: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: India: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: South Korea: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: South Korea: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Australia: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Australia: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Indonesia: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Indonesia: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Others: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Others: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Europe: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Europe: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Germany: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Germany: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: France: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: France: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: United Kingdom: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: United Kingdom: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Italy: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Italy: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Spain: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Spain: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Russia: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Russia: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Others: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Others: Autonomous Tractors Market Forecast: Sales Value (in Million US\$),



2024-2032

Figure 81: Latin America: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Latin America: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Brazil: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Brazil: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 85: Mexico: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 86: Mexico: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Others: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 88: Others: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 89: Middle East and Africa: Autonomous Tractors Market: Sales Value (in Million US\$), 2018 & 2023

Figure 90: Middle East and Africa: Autonomous Tractors Market: Breakup by Country (in %), 2023

Figure 91: Middle East and Africa: Autonomous Tractors Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 92: Global: Autonomous Tractors Industry: SWOT Analysis

Figure 93: Global: Autonomous Tractors Industry: Value Chain Analysis

Figure 94: Global: Autonomous Tractors Industry: Porter's Five Forces Analysis



## I would like to order

Product name: Autonomous Tractors Market Report by Component (LiDAR, Radar, GPS, Camera/Vision Systems, Ultrasonic Sensors, Hand-held Devices), Power Output (Less than 30 HP, 30-50 HP, 51-100 HP, More than 100HP), Crop Type (Fruits and Vegetables, Cereals and Grains, Oilseeds and Pulses), Application (Tillage, Seed Sowing, Harvesting, and Others), and Region 2024-2032

Product link: <https://marketpublishers.com/r/A2851788700CEN.html>

Price: US\$ 3,899.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/A2851788700CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970