

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

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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?

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