

Autonomous Tractors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global autonomous tractors market size reached US\$ 2.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.3 Billion by 2028, exhibiting a growth rate (CAGR) of 21.5% during 2023-2028.

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 2023-2028. 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:

How has the global autonomous tractors market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global autonomous tractors market?

What are the key regional markets?

What is the breakup of the market based on the component?

What is the breakup of the market based on the power output?

What is the breakup of the market based on the crop type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global autonomous tractors market and who are the key players?

What is the degree of competition in the industry?

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