

Global Autonomous Tractors Market Size Study, by Technology (LiDAR, Camera/Vision Systems, GPS Guidance, Hand-Held Devices, Radar, Ultrasonic Sensors), by Automation (Fully Autonomous, Semi-Autonomous), by Crop Type (Cereals & Grains, Oil Seeds & Pulses, Fruits & Vegetables), by Application (Tillage, Harvesting, Seed Sowing, Other Applications) and Regional Forecasts 2022-2032

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Abstracts

The Global Autonomous Tractors Market is valued at approximately USD 2.38 billion in 2023 and is anticipated to grow at a remarkable CAGR of 22.0% during the forecast period from 2024 to 2032, reaching an estimated USD 9.7 billion by 2032. Autonomous tractors represent a groundbreaking innovation in agricultural machinery, leveraging advanced technologies such as sensors, GPS, and artificial intelligence to perform farming tasks with unprecedented precision and efficiency. These tractors operate independently, navigating fields, adjusting to varied terrains, and avoiding obstacles autonomously, thereby minimizing human intervention and enhancing productivity.

The market for autonomous tractors is driven by a confluence of factors including the rapid advancements in agricultural technologies, the surging global demand for food, and the imperative to boost farming efficiency and crop yields. The integration of GPS, sensors, and AI technologies has made precision agriculture more accessible, further propelling the adoption of autonomous tractors. Despite the high initial costs and infrastructure challenges, the potential for these tractors to revolutionize farming practices and address labour shortages makes them an attractive investment. The expansion of applications beyond traditional markets, coupled with strategic

partnerships and technological advancements, presents significant growth opportunities.

The Asia Pacific region is poised to lead the market expansion, fuelled by rapid population growth, urbanization, and increasing investments in agricultural innovation. This region's agricultural sector is characterized by labour shortages and a pressing need to enhance productivity, making autonomous tractors a vital solution. Governments are actively supporting agricultural modernization through funding and incentives, creating a conducive environment for market growth. Moreover, the Asia Pacific region is anticipated to grow with the fastest growth rate during forecast period 2024-2032.

Major market players included in this report are:

AGCO Corporation

CNH Industrial N.V.

Mahindra & Mahindra Ltd.

Deere & Company

Kubota Corporation

Yanmar Holdings Co., Ltd.

Autonomous Tractors Corporation

SDF Group (Italy)

Iseki & CO., LTD.

TYM Corporation

The detailed segments and sub-segments of the market are explained below:

By Technology:

LiDAR

Camera/Vision Systems

GPS Guidance

Hand-Held Devices

Radar

Ultrasonic Sensors

By Automation:

Fully Autonomous

Semi-Autonomous

By Crop Type:

Cereals & Grains

Oil Seeds & Pulses

Fruits & Vegetables

By Application:

Tillage (Primary & Secondary Tillage)

Harvesting

Seed Sowing

Other Applications

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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