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Autonomous Tractors Market by Power Output (Up to 30 HP, 31–100 HP, 101 HP and Above), Crop Type (Cereals & Grains, Oilseeds & Pulses, Fruits & Vegetables), Farm Application, Component and Region - Global Forecast to 2028

https://marketpublishers.com/r/A35FBC69D72EN.html
Date: August 2023
Pages: 228
Price: US$ 4,950.00 (Single User License)
ID: A35FBC69D72EN

Abstracts

The Autonomous Tractors market is estimated at USD 2.4 Billion in 2023 and is projected to reach USD 7.1 Billion by 2028, at a CAGR of 24.0% from 2023 to 2028.

“The Camera Vision sub segment is expected to account for the largest share in 2023.”

Agriculture robots are set to revolutionize outdoor farming applications, offering numerous benefits that will transform the way farming is conducted. These advanced machines, equipped with cutting-edge technologies, are poised to address critical challenges faced by farmers and enhance productivity, sustainability, and efficiency in outdoor farming. Agriculture robots can perform tasks with unmatched precision, thanks to their advanced sensors, GPS technology, and artificial intelligence capabilities. They can accurately plant seeds, apply fertilizers, and dispense pesticides, reducing waste and optimizing resource usage. Precision farming ensures that crops receive the right amount of inputs precisely where th The market for camera vision systems in the autonomous tractor segment is experiencing rapid growth due to several key factors that are driving advancements and adoption. These camera systems play a crucial role in providing real-time visual information, enabling autonomous tractors to navigate, identify obstacles, and perform precise tasks with enhanced accuracy.

One of the primary factors contributing to the growth of camera vision systems is the need for robust perception capabilities in autonomous tractors. Cameras offer rich visual data that, when processed through sophisticated computer vision algorithms, allow

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tractors to recognize objects, lanes, and terrain variations, ensuring safe and efficient navigation.Furthermore, as regulations and safety standards become more stringent, camera vision systems provide an essential means of complying with requirements related to obstacle detection, collision avoidance, and overall operational safety.The evolution of camera technology, including higher resolutions, improved low-light performance, and advanced image processing capabilities, is driving the market's growth. These advancements enhance the ability of cameras to capture accurate and detailed visual information, even in challenging environmental conditions.The integration of artificial intelligence and machine learning algorithms with camera vision systems enables tractors to interpret complex visual data, make real-time decisions, and adjust operations based on changing conditions. Additionally, the increasing demand for precision agriculture practices is propelling the adoption of camera vision systems. These systems enable autonomous tractors to precisely perform tasks such as planting, spraying, and harvesting, contributing to higher yields and optimized resource utilization.

“The Cereal Grain sub-segment of crop type segment is projected to grow fastest during the forecast

Autonomous tractors are poised to elevate the cereals and grains segment of agriculture by introducing unparalleled precision, operational efficiency, and data-driven practices. These tractors enable precise planting with uniform seed distribution and accurate depth, leading to optimal germination and uniform crop emergence. With 24/7 operation capabilities, they seize optimal planting windows and enhance timely operations critical for cereals and grains. Real-time data collection empowers farmers to make informed decisions, adjusting strategies based on soil conditions, while variable rate planting optimizes seed distribution to varying field areas. By utilizing resources such as seeds, fertilizers, and pesticides with precision, autonomous tractors enhance sustainability and reduce waste. Their ability to operate at scale aligns well with the expansive fields typically associated with cereals and grains, promising to drive productivity, efficiency, and sustainability in this pivotal agricultural sector.

Europe is to grow significantly during the forecast period.

The European autonomous tractor market is experiencing robust growth driven by a convergence of factors that align with the region's advanced technological landscape and the imperative to enhance agricultural sustainability. Countries like Germany, France, and the Netherlands are at the forefront of adopting autonomous farming solutions.

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One of the key factors propelling growth is the persistent labor shortage in European agriculture. As traditional agricultural labor becomes scarcer and costlier, autonomous tractors offer an effective solution by reducing the need for human intervention in tasks such as plowing, planting, and harvesting.

Furthermore, Europe's strong focus on sustainability and environmental stewardship contributes to the adoption of autonomous tractors. These machines optimize input application, reduce waste, and minimize soil compaction, aligning with the region's commitment to eco-friendly agricultural practices.or restraints.

The European agricultural machinery industry is one of the most developed in the world and is supported by the presence of global players, such as John Deere (US), Earth Rover (UK), Saga Robotics (Norway), CNH Industrial (The Netherlands), and AGCO Corporation (US).

The break-up of the profile of primary participants in the autonomous tractor market:

By Company Type: Tier 1 – 30%, Tier 2 – 45%, and Tier 3 – 25%

By Designation: CXOs – 25%, Manager– 50%, Executives-25%

By Region: North America – 25%, Europe – 25%, Asia Pacific – 40%, Rest of the world– 10%

Prominent companies include Autonomous Tractors market include AGCO Corporation (US), CNH Industrial N.V. (UK), Mahindra & Mahindra Ltd. (India), Deere & Company (US), Kubota Corporation (Japan), Yanmar Holdings Co., Ltd. (Japan), Autonomous Tractors Corporation (US), SDF Group (Italy), Iseki & CO., LTD. (Japan), TYM Corporation (South Korea), J C Bamford Excavators Ltd. (UK), Tractors and Farm Equipment (India), Sonalika (India), Daedong (South Korea), CLAAS KGaA mBH (Germany) and Argo Tractors (Italy).

Research Coverage:

This research report categorizes the Autonomous Tractor Market by Component, Power Output, Farm Application, Crop Type and Region. The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges,

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and opportunities, influencing the growth of the Autonomous Tractor Market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, services; key strategies; Contracts, partnerships, and agreements. New product & service launches, mergers and acquisitions, and recent developments associated with the Autonomous Tractor Market. Competitive analysis of upcoming startups in the Autonomous Tractor Market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall Autonomous Tractor Market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Labour Shortages and rising costs, Environmental concerns, Government incentives, and subsidies), restraints (High capital investments, technological complexity, Regulations, and standards), opportunities (Big Data, IoT, and AI, and growing research and developments), challenges (Resistance to change and connectivity, small farm size and costing issues) influencing the growth of the Autonomous Tractor Market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Autonomous Tractor Market.

Market Development: Comprehensive information about lucrative markets – the report analyses the Autonomous Tractor Market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Autonomous Tractor Market.

Competitive Assessment: In-depth assessment of market shares, growth

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strategies, and service offerings of leading players like AGCO Corporation (US), CNH Industrial N.V. (UK), Mahindra & Mahindra Ltd. (India), Deere & Company (US), Kubota Corporation (Japan), Yanmar Holdings Co., Ltd. (Japan), Autonomous Tractors Corporation (US), SDF Group (Italy), Iseki & CO., LTD. (Japan), TYM Corporation (South Korea), J C Bamford Excavators Ltd. (UK), Tractors and Farm Equipment (India), Sonalika (India), Daedong (South Korea), CLAAS KGaA mBH (Germany) and Argo Tractors (Italy).among others in the market strategies. The report also helps stakeholders understand the Autonomous Tractor Market and provides them with information on key market drivers, restraints, challenges, and opportunities.

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10 AUTONOMOUS TRACTORS MARKET, BY POWER OUTPUT

11 AUTONOMOUS TRACTORS MARKET, BY REGION

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*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

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14 ADJACENT & RELATED MARKETS

15 APPENDIX

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