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# Electric Tractor Market Forecasts to 2032 – Global Analysis By Drive Train (Battery Electric and Hybrid Electric), Battery (Lithium-ion, Lead Acid, Nickel-Metal Hydride, Solid-State Batteries and Other Batteries), Power Output, Application and By Geography

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## Abstracts

According to Stratistics MRC, the Global Electric Tractor Market is accounted for $404.42 million in 2025 and is expected to reach $1075.77 million by 2032 growing at a CAGR of 15.0% during the forecast period. Electric tractors are cutting-edge farm equipment that runs on rechargeable batteries rather than conventional internal combustion engines. These tractors provide a cleaner, quieter, and more effective option for farming operations because they are made to lower greenhouse gas emissions and operating expenses. Moreover, their lower maintenance requirements and energy efficiency make them especially appropriate for small to medium-sized farms, where frequent short-range tasks can be advantageous. With cutting-edge features like smart connectivity, GPS-based automation, and regenerative braking, electric tractors are spearheading the transition to precision and sustainable farming.

According to WRI India, India—home to the largest global tractor market—sold over 1 million tractors in 2022, contributing 45% of global tractor production; agriculture and transportation together accounted for 14% and 8.36% of India’s national GHG emissions, respectively, underscoring the environmental imperative of electrifying farm equipment.

Market Dynamics:

Driver:

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Increasing fuel prices

Farmers are looking for more cost-effective options as a result of the long-term upward trend and growing volatility of diesel prices. Over time, electric tractors significantly reduce operating costs because they can be charged using either grid electricity or off-grid solar. Electric tractors, for instance, can help farmers save up to ?1.5–2 lakh (~USD 2,000) a year on fuel costs, according to studies. Additionally, this economic benefit is especially alluring in nations where fuel accounts for a sizable amount of farm input costs, such as the United States and India.

Restraint:

High initial cost of electric tractors

The high initial cost of electric tractors, which can be 1.5–2 times that of their diesel counterparts, is one of the biggest obstacles. The pricey lithium-ion batteries, electric drive trains, and sophisticated control systems are primarily to blame for this cost disparity. Many small and marginal farmers, particularly in developing nations like Brazil, India, and parts of Africa, find it difficult to make the initial investment even though operating and maintenance costs are lower. Furthermore, the problem is made worse by limited access to financing or credit options, which slows down widespread adoption.

Opportunity:

Developments in energy storage and battery technology

Electric tractors are becoming more practical due to rapid advancements in battery chemistry, energy density, and charging speeds. Key drawbacks like range anxiety and lengthy charging times should be addressed by emerging technologies like solid-state batteries, swappable battery packs, and fast-charging systems. Moreover, electric tractors may be able to handle heavier tasks and operate for longer periods of time between charges owing to these developments, which will make them appropriate for a wider variety of farming uses and larger landholdings.

Threat:

Dominance of the ecosystem of established diesel tractors

Diesel-powered tractors with a well-established supply chain, service network, spare

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parts availability, and user familiarity have dominated the global tractor market for decades. For electric tractors, this established ecosystem presents a significant obstacle, particularly in rural regions where farmers are risk-averse and favor tried-and-true technologies. Additionally, market penetration is slowed by the difficulty of persuading farmers to abandon a system they are familiar with and trust, despite the environmental advantages.

Covid-19 Impact:

The market for electric tractors experienced mixed effects from the COVID-19 pandemic. Global supply chain disruptions, factory closures, and delays in the delivery of vital components like batteries and semiconductors led to initial market setbacks that slowed production and the introduction of new models. Farmers' decreased income and financial instability, particularly in developing nations, also caused them to be frugal with their spending and favour repairing their diesel equipment rather than purchasing more expensive, newer electric alternatives. As part of green recovery plans, governments and organizations are now considering electrifying farm equipment because the pandemic has also increased interest in sustainable and self-sufficient agricultural methods.

The lithium-ion batteries segment is expected to be the largest during the forecast period

The lithium-ion batteries segment is expected to account for the largest market share during the forecast period. These batteries are favored because of their high energy density, lightweight design, extended lifespan, and quick charging capabilities—all of which are critical for agricultural operations that need prolonged use. In contrast to lead-acid or nickel-metal hydride batteries, lithium-ion batteries offer superior performance under a range of loads and more effective power delivery. Furthermore, their suitability for electric tractors has been further enhanced by technological advancements in battery management systems (BMS) and their declining cost over time.

The agriculture & forestry segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the agriculture & forestry segment is predicted to witness the highest growth rate. The global movement toward sustainable farming methods, government incentives supporting electric farm equipment, and growing awareness of the need to reduce carbon emissions in the agriculture industry are the main drivers of

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this growth. Because they are quiet, easy to maintain, and cost less to operate, electric tractors are particularly well-suited for the agricultural industry—perfect for small and medium-sized farms. Additionally, speeding up adoption are innovations like solar-powered and autonomous electric tractors.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by a well-established framework for agricultural mechanization, early adoption of new technologies, and robust government support for clean energy. Due to substantial investments in agricultural electrification, the presence of major players like John Deere and Monarch Tractor, and the growing demand for environmentally friendly farming equipment, the United States leads the world in this regard. Furthermore, the deployment of electric tractors has also been accelerated by advantageous policies like emission reduction targets and tax credits for electric vehicles.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by aggressive government programs supporting electric mobility, growing environmental concerns, and the quick modernization of agriculture. China and India are leading the way, with India providing subsidies to promote the use of electric farm equipment through programs like PM-KUSUM and FAME. Because there are so many small and medium-sized farms in the area, there is a high demand for small, reasonably priced electric tractors. Additionally, local producers and startups are investing more in R&D and local manufacturing, which increases accessibility to electric tractors and speeds up market expansion in emerging economies.

Key players in the market

Some of the key players in Electric Tractor Market include Kubota Corporation, Claas, Escorts Kubota Limited, Monarch Tractor, AGCO Corporation, Deere & Company, Solectrac Inc., CNH Industrial N.V., Yanmar Holdings Co. Ltd., AutoNxt Automation Pvt. Ltd., Ztractor, Mahindra and Mahindra, Cellestial E-Mobility Pvt Ltd, TAFE and Proxecto.

Key Developments:

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In October 2024, Escorts Kubota Limited (EKL) has entered into the Business Transfer Agreement with Sona BLW Precision Forgings Limited (Sona Comstar) for transferring the existing Railway Equipment Business Division (RED) as going concern, on slump sale basis, for a lumpsum cash consideration of INR 1,600 Crore, subject to the terms of the Agreement.

In September 2024, Kubota Corporation has acquired Bloomfield Robotics, Inc., a Pittsburgh-based company. Bloomfield provides a service that monitors the health and performance of specialty crops, one plant at a time, using advanced imaging and artificial intelligence (AI) to growers across seven countries and three continents.

In July 2024, AGCO Corporation announced it has entered into a definitive agreement to sell the majority of its Grain & Protein business to American Industrial Partners ('AIP') in an all-cash transaction valued at $700 million, subject to working capital and other customary closing adjustments.

Drive Trains Covered:

- Battery Electric
- Hybrid Electric

Batteries Covered:

- Lithium-ion
- Lead Acid
- Nickel-Metal Hydride
- Solid-State Batteries
- Other Batteries

Power Outputs Covered:

- 100 HP (High Power)

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Applications Covered:

- Agriculture & Forestry
- Utility
- Mining
- Construction
- Industrial

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe

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  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
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  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

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Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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