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Electrically Powered Hydraulic Steering Market Forecasts to 2032 – Global Analysis By Product (Steering Wheel/Column, Sensors, Steering Motor and Other Products), Type, Vehicle Type, Component, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Electrically Powered Hydraulic Steering Market is accounted for $2.7 billion in 2025 and is expected to reach $4.8 billion by 2032 growing at a CAGR of 8.5% during the forecast period. Electrically powered hydraulic steering is a hybrid steering technology that combines electric motors and hydraulic systems to control vehicle or machinery movement. It enhances steering precision, responsiveness, and energy efficiency, particularly in heavy-duty or off-road vehicles. This system reduces engine load and fuel consumption compared to conventional hydraulic steering. Common in agricultural, construction, and automotive sectors, it contributes to safer and more reliable operation, often supporting autonomous or assisted driving functions.

According to the National Highway Traffic Safety Administration, 94% of serious crashes are due to human error, highlighting the need for systems that assist in mitigating risks.

Market Dynamics:

Driver:

Demand for energy-efficient steering in agricultural machinery

Demand for energy-efficient steering in agricultural machinery is a primary driver.

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Fueled by rising fuel costs and the imperative for sustainable farming practices, farmers are seeking more efficient equipment. Electrically powered hydraulic steering systems consume less energy compared to traditional hydraulic systems, translating to lower operational expenses. Guided by the need to maximize productivity while minimizing resource consumption, energy-saving technologies are highly valued. The continuous drive for operational cost reduction and environmental stewardship in agriculture propels the adoption of these advanced steering systems.

Restraint:

Technical complexity requiring skilled maintenance

Technical complexity requiring skilled maintenance presents a notable restraint. Electrically powered hydraulic steering systems integrate advanced electronics, sensors, and hydraulic components, making them intricate. Diagnosing and repairing issues in these sophisticated systems demands specialized technical expertise and training. Influenced by the complexity of integrating electrical and hydraulic components, maintenance personnel require continuous upskilling. This technical barrier can slow down the widespread adoption of these advanced steering systems.

Opportunity:

Growth in electric and hybrid agricultural vehicle markets

Growth in electric and hybrid agricultural vehicle markets offers a compelling opportunity. Triggered by the global shift towards sustainable and electrified transportation, agricultural machinery is also undergoing an evolution. As more electric and hybrid tractors and utility vehicles enter the market, electrically powered hydraulic steering becomes a natural fit. The increasing adoption of these eco-friendly vehicles creates a direct and growing demand for compatible steering technologies. This synergy between vehicle electrification and steering technology presents a significant growth avenue.

Threat:

Competition from mechanical and traditional hydraulic systems

Competition from mechanical and traditional hydraulic systems poses a significant threat. Established mechanical and conventional hydraulic steering systems are often

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simpler, more familiar, and less expensive to produce and maintain. The perceived reliability and lower upfront cost of conventional systems can deter adoption of newer, more complex alternatives. Guided by the existing infrastructure and familiarity, a significant portion of the market may resist transitioning. The initial investment and the need for specialized training for electrically powered systems can be a barrier against these entrenched alternatives.

Covid-19 Impact:

The COVID-19 pandemic influenced the Electrically Powered Hydraulic Steering Market. Initial disruptions to global supply chains and manufacturing facilities impacted production and delivery of components. However, the pandemic also accelerated the focus on operational efficiency and reduced human intervention in agriculture. While some short-term market slowdowns occurred, the long-term trend towards smart and efficient agricultural machinery strengthened. The crisis underscored the importance of technological resilience and optimized resource use in farming, providing a positive push for the market.

The steering wheel/column segment is expected to be the largest during the forecast period

The steering wheel/column segment is expected to account for the largest market share during the forecast period, backed by its fundamental role as the primary interface between the operator and the steering system, the steering wheel/column is an indispensable component. This segment includes the entire assembly that translates driver input into steering commands. The integration of advanced sensors, electronic controls, and feedback mechanisms within the steering column further enhances its importance in electrically powered systems. Continuous innovation in ergonomic design and haptic feedback within the steering wheel/column further contributes to its leading position.

The passenger cars segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the passenger cars segment is predicted to witness the highest growth rate, spurred by the global automotive industry's rapid shift towards electrification, and electrically powered hydraulic steering is becoming prevalent in passenger vehicles. The integration of sophisticated driver-assistance systems and autonomous driving features also necessitates precise and responsive steering.

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Powered by consumer demand for improved fuel economy, enhanced driving comfort, and advanced safety features, this technology is gaining significant traction. As the production of electric passenger vehicles scales up, the demand for these specialized steering systems will accelerate.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, guided by its massive automotive manufacturing base and rapid adoption of electric and hybrid vehicles. Asia Pacific leads this market. The increasing demand for energy-efficient and technologically advanced steering systems in commercial and passenger vehicles fuels this dominance. Fuelled by government incentives for electric vehicle adoption and the expansion of smart agricultural machinery production, demand is surging. Countries like China and Japan are at the forefront of developing and manufacturing these sophisticated steering systems. The sheer volume of vehicle production across various segments contributes to the region's leading market share.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by a strong emphasis on technological innovation and the rapid growth of the electric vehicle market, North America is experiencing accelerated growth. The presence of major automotive and agricultural machinery manufacturers investing heavily in advanced steering solutions contributes to this high CAGR. Influenced by stringent fuel efficiency standards and consumer demand for high-performance vehicles, adoption is increasing. Furthermore, the region's focus on developing autonomous driving capabilities in both passenger cars and agricultural equipment further propels the demand for precisely electrically powered steering systems.

Key players in the market

Some of the key players in Electrically Powered Hydraulic Steering Market include Robert Bosch GmbH, ZF Friedrichshafen AG, Nexteer Automotive, JTEKT Corporation, NSK Ltd., Hyundai Mobis, Thyssenkrupp AG, Mando Corporation, Showa Corporation, Hitachi Automotive Systems Ltd., TRW Automotive Holdings Corp., Continental AG, Delphi Automotive PLC, Magna International Inc., Schaeffler Group, GKN plc, BorgWarner Inc., Valeo SA and Denso Corporation.

Key Developments:

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In May 2025, Robert Bosch GmbH introduced a new generation of electrically powered hydraulic steering (EPHS) systems that integrate advanced sensor technology and AI for improved driving dynamics, enhanced safety features, and readiness for higher levels of autonomous driving. This would focus on smart steering.

In May 2025, JTEKT Corporation developed a new EPHS system with enhanced cybersecurity features, addressing the increasing concerns about vehicle hacking and ensuring the integrity and reliability of critical steering functions. This would emphasize security in automotive systems.

In March 2025, Nexteer Automotive announced a new steer-by-wire EPHS solution that eliminates the mechanical link between the steering wheel and the wheels, offering greater design flexibility for vehicle manufacturers and advanced safety features. This would push towards future steering systems.

Products Covered:

- Steering Wheel/Column
- Sensors
- Steering Motor
- Other Products

Types Covered:

- Conventional Electro Hydraulic Power Steering
- Fully Electric Power Steering
- Integrated Steering Systems

Vehicle Types Covered:

- Passenger Cars

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- Light Commercial Vehicles
- Heavy Commercial Vehicles
- Electric Vehicles

Components Covered:

- Steering Gearbox
- Actuator
- Electronic Control Unit (ECU)
- Hydraulic Pump
- Hoses & Fittings

Applications Covered:

- OEMs
- Aftermarket
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico

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- Europe
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  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile

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Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

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:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

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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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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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