Brazil Electrically Powered Hydraulic Steering - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

Market Report | 2024-02-17 | 90 pages | Mordor Intelligence

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Report description:

The Brazil electrically-hydraulic power steering market is anticipated to register a CAGR of over 8% during the forecast period (2020-2025).

As most vehicles nowadays have become heavier and switched to front-wheel drive, along with an increase in tire diameter and width, the effort needed to turn the steering wheel manually would also increase. To reduce the manual effort, power steering or rather power-assisted steering were introduced to assist the driver. An advantage of power steering is its adjustable speed characteristic, where the steering is assisted more at low speed and assisted lightly at high speed to increase the control over the vehicle. This feature has gradually become a commonplace across all new vehicles. Of the different types of steering systems available nowadays, electro-hydraulic power steering is one of them.

Electro-hydraulic hybrid systems allow conventional hydraulic steering to run without the need of an engine-driven hydraulic pump. The hydraulic pressure instead is supplied by an electric motor pump unit that does not draw power from the engine. This concept is particularly helpful in vehicles that utilize conventional hydraulic steering as a basic technology but are also offered for hybrid-electric vehicle variants.

Brazil Electrically Powered Hydraulic Steering Market Trends

Advancements in Electric Power Steering (EPS) Technology Phasing Out the Electro-Hydraulic System

Failure of steering systems in vehicles, such as Ford Focus (2008) and Mercury Mariner SUV, helped in bringing about significant changes in electric power steering (EPS) technologies, driven by the improvements and advancements of steering sensors.

An electric power steering (EPS) does not use any form of hydraulic pressure to provide steering assistance. This technology is fully electronic and uses an electric motor to provide direct assistance. Since there is no power lost in generating and transmitting the hydraulic power, these systems are typically more efficient than the conventional hydraulic or electro-hydraulic steering systems. Furthermore, EPS systems are less complex than hydraulic systems. Hence, they are easier to manufacture. Moreover, car owners find it easier to maintain these systems, as there are fewer fluids and oils involved.

Many auto manufactures and OEMs, such as Bosch, Nexteer, Ford, Nissan, etc., are increasingly researching and adopting EPS in their upcoming vehicles, which may deter the growth of electro-hydraulic systems. For instance, Ford has integrated a pull-drift steering compensation as an additional feature to its new EPS system. The company acknowledges EPS with pull-drift as an improvement in the sensor system, which helps to measure the driver's steering torque constantly. It also helps in adapting to the changing road conditions, and adjustment to the slightest of steering changes.

Commercial Vehicles market expected to Witness High Growth

Energy saving is one of the most significant concerns in the development of new heavy vehicles, especially steering systems, as over 70% of the fuel consumed by a conventional hydraulic power steering (HPS) systems is unnecessary and can be avoided.

EHPS offers more fuel savings than an HPS system, which transitions to great cost benefits for commercial vehicle owners. For instance, an EHPS product from TRW has achieved fuel savings of 0.2 L/100 km, as compared to a conventional HPS system. EHPS system also has a significantly higher rack load than an HPS system.

Brazil Electrically Powered Hydraulic Steering Industry Overview

Some of the major players dominating the global market are JTEKT Corporation, Nexteer Automotive Group Ltd, ZF Friedrichshafen AG, NSK Ltd, and Robert Bosch GmbH.

There are few players in the market who hold a major share in the market. The players prefer a long-standing partnership with the major OEMs and are OEMs preferred suppliers for steering systems. The top 5 players hold almost 75% of the market as of 2019.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

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