

# **Ultrasonic Flowmeter Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Transducer Type (Spool piece, Inline, Clamp-on and Others), By Technology (Transit-time, Doppler and Hybrid), By End-Use Industry (Water & Wastewater Management, Oil & Gas, Chemical, Power Generation and Others), By Region, Competition 2018-2028**

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## **Abstracts**

The Global Transformer Core Market was valued at USD 7.51 billion in 2022 and is expected to grow at a CAGR of 3.91% during the forecast period. The global transformer core market is poised to experience substantial growth driven by government investments in renewable energy sources, expanding electric infrastructure, and the expansion of grid networks. Moreover, the growing demand for transformer cores in the power industry is expected to fuel market growth. Additionally, rapid urbanization and industrialization in emerging economies are projected to contribute to the revenue growth of the target market in the forecast period.

### **Key Market Drivers**

#### **Rising Energy Demand and Grid Expansion**

The Global Transformer Core Market is driven by the ever-increasing global energy demand. As economies grow, industries expand, and urbanization advances, the requirement for electricity escalates. This trend is particularly evident in emerging economies, where rapid industrialization and urban development contribute to the rise in

electricity consumption. To meet this growing demand and ensure a reliable power supply, countries are making significant investments in energy infrastructure, including power generation, transmission, and distribution.

Grid expansion and modernization projects are being undertaken to efficiently transmit electricity from remote power plants to urban centers. Transformer cores play a vital role in electrical transformers, enabling the efficient transmission and distribution of electricity. They facilitate voltage level adjustment to minimize energy losses during transmission, ensuring the delivery of usable power to consumers.

As the global demand for electricity continues to rise, the Transformer Core Market benefits from the ongoing need to upgrade and expand electrical infrastructure, providing essential components for efficient energy distribution.

### Integration of Renewable Energy Sources

The rising adoption of renewable energy sources, such as wind and solar power, serves as a significant driver in the Global Transformer Core Market. The shift towards clean and sustainable energy sources is a global imperative in the fight against climate change and the reduction of greenhouse gas emissions. Renewable energy installations are rapidly expanding, with wind and solar farms emerging worldwide.

Renewable energy sources often generate electricity at different voltage levels than those used in the existing grid infrastructure. In these scenarios, transformer cores play a pivotal role by facilitating the integration of renewable energy into the grid. They enable the transformation of variable and distributed renewable energy generation into a reliable power supply, ensuring grid stability and efficiency.

The growth of the renewable energy sector translates into an increased demand for specialized transformers with efficient and adaptable transformer cores. This demand is expected to continue its ascent as countries set ambitious renewable energy targets and strive for a greener and more sustainable energy mix.

### Electrification of Transportation

The electrification of transportation is emerging as a significant catalyst in the Transformer Core Market, particularly with the widespread adoption of electric vehicles (EVs). The transition towards EVs is motivated by the imperative to reduce greenhouse gas emissions, decrease reliance on fossil fuels, and improve energy efficiency in the

transportation sector.

EVs depend on transformers for their charging infrastructure. These transformers utilize transformer cores to step down high-voltage grid electricity to levels suitable for EV charging. With the growing acceptance of electric cars, there is an increasing demand for transformer cores in charging stations and EV infrastructure.

Furthermore, the electrification of the transportation sector extends beyond passenger vehicles, encompassing buses, trains, and even ships. Public transportation systems and commercial fleets are transitioning towards electric and hybrid alternatives, necessitating additional transformer cores for charging and power distribution.

The Transformer Core Market stands to benefit from the electrification of transportation, as it presents new opportunities for transformer and transformer core manufacturers. This trend aligns with global initiatives to mitigate the environmental impact of transportation and contributes to the rising demand for electric mobility solutions.

In conclusion, the Global Transformer Core Market is driven by escalating energy demands, the integration of renewable energy sources, and the electrification of transportation. These factors underscore the market's pivotal role in supporting energy infrastructure, sustainability objectives, and the transition to cleaner energy sources in an ever-evolving global energy landscape.

## Key Market Challenges

### Fluctuating Raw Material Prices and Supply Chain Disruptions

One of the primary challenges faced by the Global Transformer Core Market is the volatility in raw material prices and potential disruptions in the supply chain. Transformer cores are typically manufactured using specialized electrical steel, such as silicon steel or amorphous steel, which is crucial for their performance and efficiency. However, the prices of these raw materials can be subject to fluctuations due to various factors, including changes in supply and demand, geopolitical tensions, and economic conditions. Fluctuating raw material prices can have an impact on the overall manufacturing costs of transformer cores, making it difficult for manufacturers to maintain stable pricing for their products. These price fluctuations can affect profit margins and lead to uncertainty in the market.

Moreover, the global supply chain for raw materials can be vulnerable to disruptions, as

demonstrated by events such as the COVID-19 pandemic. Supply chain interruptions, whether due to natural disasters, trade disputes, or health crises, can result in delays in production and delivery of transformer core components. This can have an impact on project timelines, lead times for customers, and the overall competitiveness of manufacturers in the market.

To address this challenge, transformer core manufacturers need to establish resilient supply chains, diversify their sources of raw materials, and employ strategies like forward purchasing to mitigate the impact of price fluctuations. Collaboration with suppliers and proactive risk management are crucial to effectively navigate these challenges.

### Technological Advancements and Innovation

Technological advancements drive the Transformer Core Market but also pose challenges to manufacturers. With the emergence of new materials, designs, and manufacturing processes, older transformer core technologies can become obsolete. This necessitates manufacturers to adapt, invest in research and development, and remain competitive.

Amorphous alloy cores, offering higher energy efficiency compared to traditional silicon steel cores, are gaining popularity in the market. Manufacturers must retool their production lines and invest in new manufacturing processes to produce advanced transformer cores in response to these innovations.

Furthermore, the industry is being transformed by the rise of digital transformers, incorporating sensors and monitoring capabilities for real-time performance data. Manufacturers need to adapt to the integration of digital technologies in transformer core design and production to meet the evolving needs of utilities and customers.

Effectively addressing these technological challenges may require substantial capital investment, workforce retraining, and research collaborations with academic institutions or technology partners. Manufacturers successfully navigating these challenges will be well-positioned to seize opportunities in the evolving market.

### Key Market Trends

#### Energy-Efficient Transformer Cores

One of the notable trends in the Global Transformer Core Market is the growing focus on energy efficiency. As the world strives to reduce energy consumption and greenhouse gas emissions, transformers are being closely examined for their role in energy transmission and distribution. Transformer cores, a vital component of transformers, play a significant role in determining their efficiency.

For many years, traditional transformer cores made of silicon steel have been the industry standard. However, there is a shifting preference towards using amorphous alloy cores, which offer higher energy efficiency. Amorphous alloy cores exhibit lower core losses and superior magnetic properties compared to traditional silicon steel cores. This translates to reduced energy loss during electrical energy conversion, leading to lower energy consumption and operating costs.

In response to this trend, transformer core manufacturers are investing in research and development to produce amorphous alloy cores and enhance the energy efficiency of their products. The demand for energy-efficient transformer cores is witnessing a surge, driven by both environmental concerns and cost savings, as customers and utilities increasingly prioritize energy efficiency. This upward trend is expected to continue in the market.

### Digitalization and Smart Transformer Cores

An emerging trend in the Transformer Core Market is the integration of digitalization and smart technologies into transformer cores. This trend is aligned with the broader concept of the 'smart grid' and the growing need for enhanced monitoring and control of electrical infrastructure.

Digital transformer cores incorporate sensors, communication capabilities, and data analytics to provide real-time insights into their performance and the condition of the transformer. These smart cores enable utilities and operators to monitor factors such as temperature, load, and voltage levels, facilitating predictive maintenance and early fault detection. One important application of smart transformer cores is in load management and demand response programs. By analyzing data from the cores, utilities can optimize grid operations and balance load distribution more effectively, resulting in reduced energy wastage and improved grid reliability.

Furthermore, smart transformer cores play a crucial role in enabling the seamless integration of renewable energy sources into the grid. They can dynamically respond to fluctuations in renewable generation and help stabilize the grid, ensuring efficient

energy distribution. The trend towards digitalization and smart capabilities is expected to gain momentum as utilities strive to enhance the resilience and efficiency of their electrical grids. Transformer core manufacturers are partnering with technology firms to develop and offer smart core solutions, thus introducing a new dimension of competitiveness to the market.

## Segmental Insights

### Product Insights

The Distribution Transformer segment holds a significant market share in the Global Transformer Core Market. Distribution transformers play a crucial role in electrical distribution networks by stepping down voltage levels to safely deliver electricity to homes, businesses, and industries. As a result, analyzing the Distribution Transformer segment within the Global Transformer Core Market becomes imperative.

One of the primary drivers for the Distribution Transformer segment is the rapid urbanization occurring in emerging economies. With the increasing migration to urban areas, there arises a heightened demand for reliable electrical distribution infrastructure to power residential, commercial, and industrial facilities. Distribution transformers, with their ability to step down high-voltage electricity to safe and usable levels, become integral to these urban grids. Furthermore, the integration of renewable energy sources into the grid presents a significant trend directly impacting the Distribution Transformer segment. Solar and wind farms, often situated in remote locations, generate electricity at different voltage levels than those used in the grid.

Distribution transformers play a crucial role in adapting the voltage to ensure a seamless integration process. Energy efficiency emerges as a critical factor in the design and manufacturing of distribution transformers. Regulatory standards and environmental concerns are driving the industry towards more efficient designs and materials. Transformer cores made of advanced materials, such as amorphous alloys, gain traction due to their ability to reduce core losses and increase energy efficiency.

Moreover, the implementation of grid modernization initiatives, involving the deployment of smart grid technologies, unveils opportunities within the Distribution Transformer segment. Smart distribution transformers equipped with sensors and communication capabilities enable real-time monitoring of transformer performance and grid conditions. This data proves valuable for predictive maintenance, outage management, and load balancing purposes.

## Winding Insights

Auto-transformer segment is expected to dominate the market during the forecast period. Auto-transformers are a specialized type of transformer that feature a single winding with a tap, enabling them to function as both step-up and step-down transformers. They play a pivotal role in high voltage transmission systems, efficiently raising voltage for long-distance transmission and subsequently reducing it at the receiving end. This minimizes energy losses during transmission, making auto-transformers a vital component in high voltage transmission lines spanning continents or regions. Their ability to achieve voltage transformation with fewer winding turns than traditional transformers contributes to their efficiency. Auto-transformers find widespread use in industrial applications where variable voltage control is required, offering a cost-effective solution for adjusting voltage levels to match specific equipment or process requirements. This proves particularly beneficial for industries employing machinery with varying voltage needs. The integration of renewable energy sources and the growing complexity of power systems have underscored the significance of power system stability and grid resilience. Auto-transformers contribute to grid stability by providing voltage control and reactive power compensation. They effectively manage voltage fluctuations, ensuring that power quality remains within acceptable limits. Compared to traditional two-winding transformers with similar voltage ratios, auto-transformers often boast a more compact design. This space efficiency proves advantageous in scenarios where installation space is limited or when retrofitting existing infrastructure. In urban areas or industrial facilities, where space constraints are common, auto-transformers offer a practical solution for voltage transformation.

## Regional Insights

The Asia Pacific region is expected to dominate the market during the forecast period. The region plays a crucial role in the Global Transformer Core Market due to its significant industrialization, urbanization, and growing energy demand. Transformer cores are essential components in electrical transformers, which are integral to power generation, transmission, and distribution.

The Asia-Pacific region is currently witnessing rapid urbanization, with millions of people migrating to cities annually. This urbanization is driving increased construction, including the development of residential, commercial, and industrial buildings. All of these structures require electrical infrastructure, including transformers. As a result, the demand for transformer cores in the Asia-Pacific region is experiencing significant

growth. To meet the escalating energy needs of a growing population and expanding industries, countries in the Asia-Pacific region are making substantial investments in energy generation and transmission infrastructure. This includes the development of new power plants, renewable energy installations, and grid expansion projects.

Transformer cores play a critical role in stepping up or stepping down voltage levels, ensuring efficient energy transmission and distribution. The increasing deployment of transformer cores is closely tied to these infrastructure developments. The Asia-Pacific region is experiencing a surge in renewable energy projects, including wind, solar, and hydropower. These renewable energy sources often generate electricity at different voltage levels than the existing grid infrastructure. Transformer cores play a vital role in adapting the voltage to facilitate the integration of renewable energy into the grid. As countries in the region strive to reduce their carbon footprint and meet renewable energy targets, the demand for transformer cores tailored to renewable energy applications is expected to rise.

### Key Market Players

ABB Ltd.

Siemens AG

Toshiba Corporation

Eaton Corporation

Schneider Electric SE

Mitsubishi Electric Corporation

Hyosung Corporation

TBEA Co., Ltd.

CG Power and Industrial Solutions Limited

Mikotech Group

Report Scope:



In this report, the Global Transformer Core Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Transformer Core Market, By Product:

Distribution Transformer

Power Transformer

Instrument Transformer

Global Transformer Core Market, By Winding:

Two Winding

Auto-transformer

Global Transformer Core Market, By Application:

Residential & Commercial

Utility

Industrial

Global Transformer Core Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Transformer Core Market.

## Available Customizations:

Global Transformer Core Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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