

# Global Amorphous Metal Cores Market Insights, Forecast to 2026

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## Abstracts

The amorphous alloy is a non-crystal substance created by rapidly freezing liquids of high temperature. Because there is no rule of atomic arrangement, the energy loss (hysteresis loss) is small when the flux of magnetic induction passes through the iron core. In addition, eddy current loss is decreased because the thickness is approximately 0.03 mm, which is about 1/10 compared with silicon steel. Therefore, the no load loss (eddy current loss and hysteresis loss) can be decreased to about 1/5 of silicon steel's. Amorphous metal is an alloy with a non-crystalline structure produced by ultra-rapid quenching (about 1 million ? per second) of molten alloy. Because amorphous metal has no anisotropic properties, which originated from a crystalline structure, and there are no crystalline grain boundaries to prevent motion of magnetic domain walls, it shows excellent magnetic properties such as high permeability and low loss while having a high-saturation magnetic flux density.

Amorphous metal cores are effective for most distribution transformers. They are ideally suited for renewable energy applications such as wind farm and solar power, as they typically operate with 20~40% low load conditions. Amorphous metal cores have been in use for over 20 years in liquid-filled transformers, and this technology is now being applied to dry type transformers.

The initial costs of an amorphous core transformer are higher than of a crystalline silicon steel core transformer: first, the amorphous material itself is more expensive than crystalline silicon steel and second, the saturation magnetic flux density of amorphous steel is lower than that of silicon steel. This means larger sizes of amorphous core transformers are required, which results in a higher cost per unit. However, the higher initial costs can be compensated by lower operating costs over the lifetime of the transformers due to their increased energy efficiency.

The market for amorphous metal core is concentrated with players such as Hitachi, Mangal Electrical Industries, UAML (Usha Amorphous Metals Limited), TI-Electronic,

ENPAY, Shanghai Zhixin Electric, Advanced Technology & Materials, Zhaojing Incorporated Company, Qingdao Yunlu Advanced Material Technology, Foshan Catech, Kotsons and so on. Among them, Hitachi is the leader with about 57% revenue market share in 2016.

The leading companies own the advantages on better performance, more abundant product's types, better technical and impeccable after-sales service. Consequently, they take the majority of the market share of high-end market. Looking to the future years, the slow downward price trend in recent years will maintain. As competition intensifies, prices gap between different brands will go narrowing. Similarly, there will be fluctuation in gross margin.

The industry is expected to remain innovation-led, with frequent acquisitions and strategic alliances adopted as the key strategies by the players to increase their industry presence. Market stays in mature period with a clear concentration. Meanwhile, optimize product mix and further develop value-added capabilities to maximize margins. Manufacturers can take advantage of this situation by reinforcing their production units and supply-chains to avoid any delay in production turn-around-times (TAT) and supply-lead-times.

Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the Amorphous Metal Cores 4900 market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting production and demand, by creating supply chain and market disruption, and by its financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the Amorphous Metal Cores 4900 industry.

Based on our recent survey, we have several different scenarios about the Amorphous Metal Cores 4900 YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ 723 million in 2019. The market size of Amorphous Metal Cores 4900 will reach xx in 2026, with a CAGR of xx% from 2020 to 2026.

With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global Amorphous Metal

Cores market to help players in achieving a strong market position. Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global Amorphous Metal Cores market in terms of both revenue and volume. Players, stakeholders, and other participants in the global Amorphous Metal Cores market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on sales (volume), revenue and forecast by each application segment in terms of sales and revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

### Production and Pricing Analyses

Readers are provided with deeper production analysis, import and export analysis, and pricing analysis for the global Amorphous Metal Cores market. As part of production analysis, the report offers accurate statistics and figures for production capacity, production volume by region, and global production and production by each type segment for the period 2015-2026.

In the pricing analysis section of the report, readers are provided with validated statistics and figures for price by manufacturer and price by region for the period 2015-2020 and price by each type segment for the period 2015-2026. The import and export analysis for the global Amorphous Metal Cores market has been provided based on region.

### Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Amorphous Metal Cores market, covering important regions, viz, North America, Europe, China and Japan. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, UAE, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of volume for the period 2015-2026.

### Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of the global Amorphous Metal Cores market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on sales by

the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020.

On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global Amorphous Metal Cores market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global Amorphous Metal Cores market. The following manufacturers are covered in this report:

Hitachi

Advanced Technology

Zhixin Electric

Zhaojing Incorporated

Qingdao Yunlu

Foshan Catech

ENPAY

Mangal

Kotsons

UAML

TI-Electronic

#### Amorphous Metal Cores Breakdown Data by Type

C Core

E Core

Other

## Amorphous Metal Cores Breakdown Data by Application

Transformer

Inverter

Others

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