

Global Amorphous Metal Cores Market Growth 2025-2031

<https://marketpublishers.com/r/G275D613866EN.html>

Date: January 2025

Pages: 116

Price: US\$ 3,660.00 (Single User License)

ID: G275D613866EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Amorphous Metal Cores market size is predicted to grow from US\$ 927 million in 2025 to US\$ 1363 million in 2031; it is expected to grow at a CAGR of 6.6% from 2025 to 2031.

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 °C 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.

Historically, there was an initial interest in amorphous core transformers which stemmed from the first oil shock in the mid-1970s when improved energy efficiency in power distribution systems was increasingly desirable. This interest fell away in the mid-1990s when energy costs decreased. Furthermore, 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.

Nowadays, amorphous metal core transformers have become commercially available and are cost-competitive with conventional core transformers. There has also been significant technical progress in increasing the saturation magnetic flux density of iron-based amorphous alloys, resulting in smaller transformers and reduced material costs.

The amorphous metal used in transformer cores is a unique alloy of Fe–Si–B (iron, silicon and boron) that is produced by extremely rapid solidification from the alloy melt. This causes the metal atoms to form a random pattern, as opposed to conventional Cold-Rolled Grain-Oriented (CRGO) silicon steel (a Fe–Si alloy), which has an organized crystalline structure. The amorphous structure, usually associated with non-metallic systems looks like glass - which has prompted the name 'glassy metal' widely used for such materials.

The absence of a crystalline structure in amorphous metal allows easy magnetization of the material, leading to lower hysteresis losses. The eddy current losses are also lower in amorphous metal due to a combination of its low thickness and a high electrical resistivity of 130 $\mu\Omega\cdot\text{cm}$ compared to the 51 $\mu\Omega\cdot\text{cm}$ in CRGO silicon steels. Thus, amorphous metal has a much lower total loss than even the best grades of CRGO steel, by up to 70 percent.

Amorphous metal cores have a proven track-record of over 20 years in liquid-filled transformers and this technology is now being applied to dry-type transformers.

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.

LP Information, Inc. (LPI) ' newest research report, the “Amorphous Metal Cores Industry Forecast” looks at past sales and reviews total world Amorphous Metal Cores sales in 2024, providing a comprehensive analysis by region and market sector of projected Amorphous Metal Cores sales for 2025 through 2031. With Amorphous Metal Cores sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Amorphous Metal Cores industry.

This Insight Report provides a comprehensive analysis of the global Amorphous Metal Cores landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Amorphous Metal Cores portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Amorphous Metal Cores market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Amorphous Metal Cores and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Amorphous Metal Cores.

This report presents a comprehensive overview, market shares, and growth opportunities of Amorphous Metal Cores market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

C Core

E Core

Others

Segmentation by Application:

Transformer

Inverter

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hitachi

Advanced Technology

Zhixin Electric

Zhaojing Incorporated

Qingdao Yunlu

Foshan Catech

ENPAY

Mangal

Kotsons

UAML

TI-Electronic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Amorphous Metal Cores market?

What factors are driving Amorphous Metal Cores market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Amorphous Metal Cores market opportunities vary by end market size?

How does Amorphous Metal Cores break out by Type, by Application?

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