

2018-2023 Global Amorphous Metal Cores Consumption Market Report

https://marketpublishers.com/r/2DAAD7850E4EN.html

Date: July 2018

Pages: 162

Price: US\$ 4,660.00 (Single User License)

ID: 2DAAD7850E4EN

Abstracts

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

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Amorphous Metal Cores market for 2018-2023.

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.

Over the next five years, LPI(LP Information) projects that Amorphous Metal Cores will register a 7.6% CAGR in terms of revenue, reach US\$ 960 million by 2023, from US\$ 620 million in 2017.

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.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

C Core

E Core



Other		
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	
Spain	
Middle East & Africa	
Egypt	
South Africa	
Israel	
Turkey	
GCC Countries	
The report also presents the market competition landso detailed analysis of the major vendor/manufacturers in the manufacturers covered in this report:	
Hitachi	
Advanced Technology	
Zhixin Electric	
Zhaojing Incorporated	



Qingdao Yunlu
Foshan Catech
ENPAY
Mangal
Kotsons
UAML
TI-Electronic
ition, this report discusses the key drivers influencing market growth,

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Amorphous Metal Cores consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Amorphous Metal Cores market by identifying its various subsegments.

Focuses on the key global Amorphous Metal Cores manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Amorphous Metal Cores with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).



To project the consumption of Amorphous Metal Cores submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.



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