

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Amorphous Metal Cores Market 2018, Forecast to 2023

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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.

### **SCOPE OF THE REPORT:**

This report focuses on the Amorphous Metal Cores in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. 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.

The worldwide market for Amorphous Metal Cores is expected to grow at a CAGR of roughly 7.6% over the next five years, will reach 960 million US\$ in 2023, from 620 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Hitachi

Advanced Technology

Zhixin Electric

Zhaojing Incorporated







Transformer		
Inverter		
Others		
45.01		

There are 15 Chapters to deeply display the global Amorphous Metal Cores market.

Chapter 1, to describe Amorphous Metal Cores Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Amorphous Metal Cores, with sales, revenue, and price of Amorphous Metal Cores, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Amorphous Metal Cores, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Amorphous Metal Cores market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Amorphous Metal Cores sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source



### **Contents**

#### 1 MARKET OVERVIEW

- 1.1 Amorphous Metal Cores Introduction
- 1.2 Market Analysis by Type
  - 1.2.1 C Core
  - 1.2.2 E Core
  - 1.2.3 Other
- 1.3 Market Analysis by Applications
  - 1.3.1 Transformer
  - 1.3.2 Inverter
  - 1.3.3 Others
- 1.4 Market Analysis by Regions
- 1.4.1 North America (United States, Canada and Mexico)
  - 1.4.1.1 United States Market States and Outlook (2013-2023)
  - 1.4.1.2 Canada Market States and Outlook (2013-2023)
  - 1.4.1.3 Mexico Market States and Outlook (2013-2023)
- 1.4.2 Europe (Germany, France, UK, Russia and Italy)
  - 1.4.2.1 Germany Market States and Outlook (2013-2023)
  - 1.4.2.2 France Market States and Outlook (2013-2023)
  - 1.4.2.3 UK Market States and Outlook (2013-2023)
  - 1.4.2.4 Russia Market States and Outlook (2013-2023)
- 1.4.2.5 Italy Market States and Outlook (2013-2023)
- 1.4.3 Asia-Pacific (China, Japan, Korea, India and Southeast Asia)
  - 1.4.3.1 China Market States and Outlook (2013-2023)
  - 1.4.3.2 Japan Market States and Outlook (2013-2023)
  - 1.4.3.3 Korea Market States and Outlook (2013-2023)
  - 1.4.3.4 India Market States and Outlook (2013-2023)
  - 1.4.3.5 Southeast Asia Market States and Outlook (2013-2023)
- 1.4.4 South America, Middle East and Africa
  - 1.4.4.1 Brazil Market States and Outlook (2013-2023)
  - 1.4.4.2 Egypt Market States and Outlook (2013-2023)
  - 1.4.4.3 Saudi Arabia Market States and Outlook (2013-2023)
  - 1.4.4.4 South Africa Market States and Outlook (2013-2023)
  - 1.4.4.5 Nigeria Market States and Outlook (2013-2023)
- 1.5 Market Dynamics
  - 1.5.1 Market Opportunities
  - 1.5.2 Market Risk



### 1.5.3 Market Driving Force

#### **2 MANUFACTURERS PROFILES**

- 2.1 Hitachi
  - 2.1.1 Business Overview
  - 2.1.1.1 Hitachi Description
  - 2.1.1.2 Hitachi Headquarter, Main Business and Finance Overview
  - 2.1.2 Hitachi Amorphous Metal Cores Product Introduction
- 2.1.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.1.2.2 Amorphous Metal Cores Product Information
- 2.1.3 Hitachi Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.1.3.1 Hitachi Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
  - 2.1.3.2 Global Hitachi Amorphous Metal Cores Market Share in 2017
- 2.2 Advanced Technology
  - 2.2.1 Business Overview
    - 2.2.1.1 Advanced Technology Description
    - 2.2.1.2 Advanced Technology Headquarter, Main Business and Finance Overview
  - 2.2.2 Advanced Technology Amorphous Metal Cores Product Introduction
- 2.2.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.2.2.2 Amorphous Metal Cores Product Information
- 2.2.3 Advanced Technology Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.2.3.1 Advanced Technology Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.2.3.2 Global Advanced Technology Amorphous Metal Cores Market Share in 20172.3 Zhixin Electric
  - 2.3.1 Business Overview
    - 2.3.1.1 Zhixin Electric Description
    - 2.3.1.2 Zhixin Electric Headquarter, Main Business and Finance Overview
  - 2.3.2 Zhixin Electric Amorphous Metal Cores Product Introduction
- 2.3.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.3.2.2 Amorphous Metal Cores Product Information
- 2.3.3 Zhixin Electric Amorphous Metal Cores Sales, Price, Revenue, Gross Margin



### and Market Share (2016-2017)

- 2.3.3.1 Zhixin Electric Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
  - 2.3.3.2 Global Zhixin Electric Amorphous Metal Cores Market Share in 2017
- 2.4 Zhaojing Incorporated
  - 2.4.1 Business Overview
    - 2.4.1.1 Zhaojing Incorporated Description
    - 2.4.1.2 Zhaojing Incorporated Headquarter, Main Business and Finance Overview
  - 2.4.2 Zhaojing Incorporated Amorphous Metal Cores Product Introduction
- 2.4.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.4.2.2 Amorphous Metal Cores Product Information
- 2.4.3 Zhaojing Incorporated Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.4.3.1 Zhaojing Incorporated Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.4.3.2 Global Zhaojing Incorporated Amorphous Metal Cores Market Share in 20172.5 Qingdao Yunlu
  - 2.5.1 Business Overview
    - 2.5.1.1 Qingdao Yunlu Description
    - 2.5.1.2 Qingdao Yunlu Headquarter, Main Business and Finance Overview
  - 2.5.2 Qingdao Yunlu Amorphous Metal Cores Product Introduction
- 2.5.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.5.2.2 Amorphous Metal Cores Product Information
- 2.5.3 Qingdao Yunlu Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.5.3.1 Qingdao Yunlu Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.5.3.2 Global Qingdao Yunlu Amorphous Metal Cores Market Share in 2017 2.6 Foshan Catech
  - 2.6.1 Business Overview
    - 2.6.1.1 Foshan Catech Description
    - 2.6.1.2 Foshan Catech Headquarter, Main Business and Finance Overview
  - 2.6.2 Foshan Catech Amorphous Metal Cores Product Introduction
- 2.6.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.6.2.2 Amorphous Metal Cores Product Information
- 2.6.3 Foshan Catech Amorphous Metal Cores Sales, Price, Revenue, Gross Margin



### and Market Share (2016-2017)

- 2.6.3.1 Foshan Catech Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.6.3.2 Global Foshan Catech Amorphous Metal Cores Market Share in 2017 2.7 ENPAY
  - 2.7.1 Business Overview
    - 2.7.1.1 ENPAY Description
    - 2.7.1.2 ENPAY Headquarter, Main Business and Finance Overview
  - 2.7.2 ENPAY Amorphous Metal Cores Product Introduction
- 2.7.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.7.2.2 Amorphous Metal Cores Product Information
- 2.7.3 ENPAY Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.7.3.1 ENPAY Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.7.3.2 Global ENPAY Amorphous Metal Cores Market Share in 2017 2.8 Mangal
  - 2.8.1 Business Overview
    - 2.8.1.1 Mangal Description
    - 2.8.1.2 Mangal Headquarter, Main Business and Finance Overview
  - 2.8.2 Mangal Amorphous Metal Cores Product Introduction
- 2.8.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.8.2.2 Amorphous Metal Cores Product Information
- 2.8.3 Mangal Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.8.3.1 Mangal Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
  - 2.8.3.2 Global Mangal Amorphous Metal Cores Market Share in 2017
- 2.9 Kotsons
  - 2.9.1 Business Overview
    - 2.9.1.1 Kotsons Description
    - 2.9.1.2 Kotsons Headquarter, Main Business and Finance Overview
  - 2.9.2 Kotsons Amorphous Metal Cores Product Introduction
- 2.9.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.9.2.2 Amorphous Metal Cores Product Information
- 2.9.3 Kotsons Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and



### Market Share (2016-2017)

- 2.9.3.1 Kotsons Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
  - 2.9.3.2 Global Kotsons Amorphous Metal Cores Market Share in 2017
- 2.10 UAML
- 2.10.1 Business Overview
  - 2.10.1.1 UAML Description
  - 2.10.1.2 UAML Headquarter, Main Business and Finance Overview
- 2.10.2 UAML Amorphous Metal Cores Product Introduction
- 2.10.2.1 Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors
  - 2.10.2.2 Amorphous Metal Cores Product Information
- 2.10.3 UAML Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.10.3.1 UAML Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
  - 2.10.3.2 Global UAML Amorphous Metal Cores Market Share in 2017
- 2.11 TI-Electronic
  - 2.11.1 Business Overview
  - 2.11.2 TI-Electronic Amorphous Metal Cores Product Introduction
- 2.11.3 TI-Electronic Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

## 3 GLOBAL AMORPHOUS METAL CORES MARKET COMPETITION, BY MANUFACTURER

- 3.1 Global Amorphous Metal Cores Sales and Market Share by Manufacturer (2016-2017)
- 3.2 Global Amorphous Metal Cores Revenue and Market Share by Manufacturer (2016-2017)
- 3.3 Global Amorphous Metal Cores Price by Manufacturer (2016-2017)
- 3.4 Market Concentration Rate
  - 3.4.1 Top 3 Amorphous Metal Cores Manufacturer Market Share in 2017
  - 3.4.2 Top 5 Amorphous Metal Cores Manufacturer Market Share in 2017
- 3.5 Market Competition Trend

### 4 GLOBAL AMORPHOUS METAL CORES MARKET ANALYSIS BY REGIONS

4.1 Global Amorphous Metal Cores Sales, Revenue and Market Share by Regions



- 4.1.1 Global Amorphous Metal Cores Sales by Regions (2013-2018)
- 4.1.2 Global Amorphous Metal Cores Revenue by Regions (2013-2018)
- 4.2 North America Amorphous Metal Cores Sales, Revenue and Growth Rate (2013-2018)
- 4.3 Europe Amorphous Metal Cores Sales, Revenue and Growth Rate (2013-2018)
- 4.4 Asia-Pacific Amorphous Metal Cores Sales, Revenue and Growth Rate (2013-2018)
- 4.5 South America Amorphous Metal Cores Sales, Revenue and Growth Rate (2013-2018)
- 4.6 Middle East and Africa Amorphous Metal Cores Sales, Revenue and Growth Rate (2013-2018)

# 5 NORTH AMERICA AMORPHOUS METAL CORES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 5.1 North America Amorphous Metal Cores Sales, Revenue and Market Share by Countries
  - 5.1.1 North America Amorphous Metal Cores Sales by Countries (2013-2018)
  - 5.1.2 North America Amorphous Metal Cores Revenue by Countries (2013-2018)
  - 5.1.3 United States Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 5.1.4 Canada Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 5.1.5 Mexico Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 5.2 North America Amorphous Metal Cores Sales and Revenue (Value) by Manufacturers (2016-2017)
- 5.2.1 North America Amorphous Metal Cores Sales by Manufacturers (2016-2017)
- 5.2.2 North America Amorphous Metal Cores Revenue by Manufacturers (2016-2017)
- 5.3 North America Amorphous Metal Cores Sales, Revenue and Market Share by Type (2013-2018)
- 5.3.1 North America Amorphous Metal Cores Sales and Sales Share by Type (2013-2018)
- 5.3.2 North America Amorphous Metal Cores Revenue and Revenue Share by Type (2013-2018)
- 5.4 North America Amorphous Metal Cores Sales, Revenue and Market Share by Application (2013-2018)
- 5.4.1 North America Amorphous Metal Cores Sales and Sales Share by Application (2013-2018)
- 5.4.2 North America Amorphous Metal Cores Revenue and Revenue Share by Application (2013-2018)

### 6 EUROPE AMORPHOUS METAL CORES BY COUNTRIES, TYPE, APPLICATION



#### AND MANUFACTURERS

- 6.1 Europe Amorphous Metal Cores Sales, Revenue and Market Share by Countries
  - 6.1.1 Europe Amorphous Metal Cores Sales by Countries (2013-2018)
  - 6.1.2 Europe Amorphous Metal Cores Revenue by Countries (2013-2018)
  - 6.1.3 Germany Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 6.1.4 UK Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 6.1.5 France Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 6.1.6 Russia Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 6.1.7 Italy Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 6.2 Europe Amorphous Metal Cores Sales and Revenue (Value) by Manufacturers (2016-2017)
- 6.2.1 Europe Amorphous Metal Cores Sales by Manufacturers (2016-2017)
- 6.2.2 Europe Amorphous Metal Cores Revenue by Manufacturers (2016-2017)
- 6.3 Europe Amorphous Metal Cores Sales, Revenue and Market Share by Type (2013-2018)
  - 6.3.1 Europe Amorphous Metal Cores Sales and Sales Share by Type (2013-2018)
- 6.3.2 Europe Amorphous Metal Cores Revenue and Revenue Share by Type (2013-2018)
- 6.4 Europe Amorphous Metal Cores Sales, Revenue and Market Share by Application (2013-2018)
- 6.4.1 Europe Amorphous Metal Cores Sales and Sales Share by Application (2013-2018)
- 6.4.2 Europe Amorphous Metal Cores Revenue and Revenue Share by Application (2013-2018)

# 7 ASIA-PACIFIC AMORPHOUS METAL CORES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 7.1 Asia-Pacific Amorphous Metal Cores Sales, Revenue and Market Share by Countries
  - 7.1.1 Asia-Pacific Amorphous Metal Cores Sales by Countries (2013-2018)
  - 7.1.2 Asia-Pacific Amorphous Metal Cores Revenue by Countries (2013-2018)
  - 7.1.3 China Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 7.1.4 Japan Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 7.1.5 Korea Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 7.1.6 India Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 7.1.7 Southeast Asia Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 7.2 Asia-Pacific Amorphous Metal Cores Sales and Revenue (Value) by Manufacturers



(2016-2017)

- 7.2.1 Asia-Pacific Amorphous Metal Cores Sales by Manufacturers (2016-2017)
- 7.2.2 Asia-Pacific Amorphous Metal Cores Revenue by Manufacturers (2016-2017)
- 7.3 Asia-Pacific Amorphous Metal Cores Sales, Revenue and Market Share by Type (2013-2018)
- 7.3.1 Asia-Pacific Amorphous Metal Cores Sales and Sales Share by Type (2013-2018)
- 7.3.2 Asia-Pacific Amorphous Metal Cores Revenue and Revenue Share by Type (2013-2018)
- 7.4 Asia-Pacific Amorphous Metal Cores Sales, Revenue and Market Share by Application (2013-2018)
- 7.4.1 Asia-Pacific Amorphous Metal Cores Sales and Sales Share by Application (2013-2018)
- 7.4.2 Asia-Pacific Amorphous Metal Cores Revenue and Revenue Share by Application (2013-2018)

## 8 SOUTH AMERICA AMORPHOUS METAL CORES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 8.1 South America Amorphous Metal Cores Sales, Revenue and Market Share by Countries
  - 8.1.1 South America Amorphous Metal Cores Sales by Countries (2013-2018)
  - 8.1.2 South America Amorphous Metal Cores Revenue by Countries (2013-2018)
  - 8.1.3 Brazil Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 8.1.4 Argentina Amorphous Metal Cores Sales and Growth Rate (2013-2018)
  - 8.1.5 Colombia Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 8.2 South America Amorphous Metal Cores Sales and Revenue (Value) by Manufacturers (2016-2017)
  - 8.2.1 South America Amorphous Metal Cores Sales by Manufacturers (2016-2017)
  - 8.2.2 South America Amorphous Metal Cores Revenue by Manufacturers (2016-2017)
- 8.3 South America Amorphous Metal Cores Sales, Revenue and Market Share by Type (2013-2018)
- 8.3.1 South America Amorphous Metal Cores Sales and Sales Share by Type (2013-2018)
- 8.3.2 South America Amorphous Metal Cores Revenue and Revenue Share by Type (2013-2018)
- 8.4 South America Amorphous Metal Cores Sales, Revenue and Market Share by Application (2013-2018)
- 8.4.1 South America Amorphous Metal Cores Sales and Sales Share by Application



(2013-2018)

8.4.2 South America Amorphous Metal Cores Revenue and Revenue Share by Application (2013-2018)

# 9 MIDDLE EAST AND AFRICA AMORPHOUS METAL CORES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 9.1 Middle East and Africa Amorphous Metal Cores Sales, Revenue and Market Share by Countries
  - 9.1.1 Middle East and Africa Amorphous Metal Cores Sales by Countries (2013-2018)
- 9.1.2 Middle East and Africa Amorphous Metal Cores Revenue by Countries (2013-2018)
  - 9.1.3 Saudi Arabia Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 9.1.4 UAE Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 9.1.5 Egypt Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 9.1.6 Nigeria Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 9.1.7 South Africa Amorphous Metal Cores Sales and Growth Rate (2013-2018)
- 9.2 Middle East and Africa Amorphous Metal Cores Sales and Revenue (Value) by Manufacturers (2016-2017)
- 9.2.1 Middle East and Africa Amorphous Metal Cores Sales by Manufacturers (2016-2017)
- 9.2.2 Middle East and Africa Amorphous Metal Cores Revenue by Manufacturers (2016-2017)
- 9.3 Middle East and Africa Amorphous Metal Cores Sales, Revenue and Market Share by Type (2013-2018)
- 9.3.1 Middle East and Africa Amorphous Metal Cores Sales and Sales Share by Type (2013-2018)
- 9.3.1 Middle East and Africa Amorphous Metal Cores Revenue and Revenue Share by Type (2013-2018)
- 9.4 Middle East and Africa Amorphous Metal Cores Sales, Revenue and Market Share by Application (2013-2018)
- 9.4.1 Middle East and Africa Amorphous Metal Cores Sales and Sales Share by Application (2013-2018)
- 9.4.2 Middle East and Africa Amorphous Metal Cores Revenue and Revenue Share by Application (2013-2018)

### 10 GLOBAL AMORPHOUS METAL CORES MARKET SEGMENT BY TYPE

10.1 Global Amorphous Metal Cores Sales, Revenue and Market Share by Type



### (2013-2018)

- 10.1.1 Global Amorphous Metal Cores Sales and Market Share by Type (2013-2018)
- 10.1.2 Global Amorphous Metal Cores Revenue and Market Share by Type (2013-2018)
- 10.2 C Core Sales Growth and Price
- 10.2.1 Global C Core Sales Growth (2013-2018)
- 10.2.2 Global C Core Price (2013-2018)
- 10.3 E Core Sales Growth and Price
  - 10.3.1 Global E Core Sales Growth (2013-2018)
  - 10.3.2 Global E Core Price (2013-2018)
- 10.4 Other Sales Growth and Price
  - 10.4.1 Global Other Sales Growth (2013-2018)
  - 10.4.2 Global Other Price (2013-2018)

#### 11 GLOBAL AMORPHOUS METAL CORES MARKET SEGMENT BY APPLICATION

- 11.1 Global Amorphous Metal Cores Sales Market Share by Application (2013-2018)
- 11.2 Transformer Sales Growth (2013-2018)
- 11.3 Inverter Sales Growth (2013-2018)
- 11.4 Others Sales Growth (2013-2018)

### 12 AMORPHOUS METAL CORES MARKET FORECAST (2018-2023)

- 12.1 Global Amorphous Metal Cores Sales, Revenue and Growth Rate (2018-2023)
- 12.2 Amorphous Metal Cores Market Forecast by Regions (2018-2023)
- 12.2.1 North America Amorphous Metal Cores Market Forecast (2018-2023)
- 12.2.2 Europe Amorphous Metal Cores Market Forecast (2018-2023)
- 12.2.3 Asia-Pacific Amorphous Metal Cores Market Forecast (2018-2023)
- 12.2.4 South America Amorphous Metal Cores Market Forecast (2018-2023)
- 12.2.5 Middle East and Africa Amorphous Metal Cores Market Forecast (2018-2023)
- 12.3 Amorphous Metal Cores Market Forecast by Type (2018-2023)
  - 12.3.1 Global Amorphous Metal Cores Sales Forecast by Type (2018-2023)
  - 12.3.2 Global Amorphous Metal Cores Market Share Forecast by Type (2018-2023)
- 12.4 Amorphous Metal Cores Market Forecast by Application (2018-2023)
  - 12.4.1 Global Amorphous Metal Cores Sales Forecast by Application (2018-2023)
- 12.4.2 Global Amorphous Metal Cores Market Share Forecast by Application (2018-2023)

### 13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS



- 13.1 Sales Channel
  - 13.1.1 Direct Marketing
  - 13.1.2 Indirect Marketing
  - 13.1.3 Marketing Channel Future Trend
- 13.2 Distributors, Traders and Dealers

### 14 RESEARCH FINDINGS AND CONCLUSION

### **15 APPENDIX**

- 15.1 Methodology
- 15.2 Data Source



### **List Of Tables**

#### LIST OF TABLES AND FIGURES

Figure Amorphous Metal Cores Picture

Table Product Specifications of Amorphous Metal Cores

Figure Global Amorphous Metal Cores CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (USD Million)

Figure Global Amorphous Metal Cores CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (Sales)

Figure Global Sales Market Share of Amorphous Metal Cores by Types in 2017

Figure C Core Picture

Table Major Manufacturers of C Core

Figure E Core Picture

Table Major Manufacturers of E Core

Figure Other Picture

Table Major Manufacturers of Other

Figure Amorphous Metal Cores Sales Market Share by Applications in 2017

Figure Transformer Picture

Figure Inverter Picture

Figure Others Picture

Figure United States Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Canada Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Mexico Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023) Figure Germany Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure France Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure UK Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Russia Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Italy Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure China Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Japan Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Korea Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure India Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Southeast Asia Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Brazil Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)



Figure Egypt Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023) Figure Saudi Arabia Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure South Africa Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023)

Figure Nigeria Amorphous Metal Cores Revenue (Value) and Growth Rate (2013-2023) Table Hitachi Headquarter, Established, Main Business and Finance Overview (2017) Table Hitachi Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Hitachi Amorphous Metal Cores Product

Table Hitachi Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Hitachi Amorphous Metal Cores Sales Market Share in 2017 Figure Global Hitachi Amorphous Metal Cores Revenue Market Share in 2017 Table Advanced Technology Headquarter, Established, Main Business and Finance Overview (2017)

Table Advanced Technology Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Advanced Technology Amorphous Metal Cores Product

Table Advanced Technology Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Advanced Technology Amorphous Metal Cores Sales Market Share in 2017

Figure Global Advanced Technology Amorphous Metal Cores Revenue Market Share in 2017

Table Zhixin Electric Headquarter, Established, Main Business and Finance Overview (2017)

Table Zhixin Electric Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Zhixin Electric Amorphous Metal Cores Product

Table Zhixin Electric Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Zhixin Electric Amorphous Metal Cores Sales Market Share in 2017 Figure Global Zhixin Electric Amorphous Metal Cores Revenue Market Share in 2017 Table Zhaojing Incorporated Headquarter, Established, Main Business and Finance Overview (2017)

Table Zhaojing Incorporated Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Zhaojing Incorporated Amorphous Metal Cores Product



Table Zhaojing Incorporated Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Zhaojing Incorporated Amorphous Metal Cores Sales Market Share in 2017

Figure Global Zhaojing Incorporated Amorphous Metal Cores Revenue Market Share in 2017

Table Qingdao Yunlu Headquarter, Established, Main Business and Finance Overview (2017)

Table Qingdao Yunlu Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Qingdao Yunlu Amorphous Metal Cores Product

Table Qingdao Yunlu Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Qingdao Yunlu Amorphous Metal Cores Sales Market Share in 2017 Figure Global Qingdao Yunlu Amorphous Metal Cores Revenue Market Share in 2017 Table Foshan Catech Headquarter, Established, Main Business and Finance Overview (2017)

Table Foshan Catech Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Foshan Catech Amorphous Metal Cores Product

Table Foshan Catech Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Foshan Catech Amorphous Metal Cores Sales Market Share in 2017 Figure Global Foshan Catech Amorphous Metal Cores Revenue Market Share in 2017 Table ENPAY Headquarter, Established, Main Business and Finance Overview (2017) Table ENPAY Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table ENPAY Amorphous Metal Cores Product

Table ENPAY Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global ENPAY Amorphous Metal Cores Sales Market Share in 2017
Figure Global ENPAY Amorphous Metal Cores Revenue Market Share in 2017
Table Mangal Headquarter, Established, Main Business and Finance Overview (2017)
Table Mangal Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table Mangal Amorphous Metal Cores Product

Table Mangal Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Mangal Amorphous Metal Cores Sales Market Share in 2017



Figure Global Mangal Amorphous Metal Cores Revenue Market Share in 2017
Table Kotsons Headquarter, Established, Main Business and Finance Overview (2017)
Table Kotsons Amorphous Metal Cores Production Bases, Sales Regions and Major
Competitors

Table Kotsons Amorphous Metal Cores Product

Table Kotsons Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Kotsons Amorphous Metal Cores Sales Market Share in 2017
Figure Global Kotsons Amorphous Metal Cores Revenue Market Share in 2017
Table UAML Headquarter, Established, Main Business and Finance Overview (2017)
Table UAML Amorphous Metal Cores Production Bases, Sales Regions and Major Competitors

Table UAML Amorphous Metal Cores Product

Table UAML Amorphous Metal Cores Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global UAML Amorphous Metal Cores Sales Market Share in 2017 Figure Global UAML Amorphous Metal Cores Revenue Market Share in 2017 Table TI-Electronic

Table TI-Electronic Amorphous Metal Cores

Table Global Amorphous Metal Cores Sales by Manufacturer (2016-2017)

Figure Global Amorphous Metal Cores Sales Market Share by Manufacturer in 2016

Figure Global Amorphous Metal Cores Sales Market Share by Manufacturer in 2017

Table Global Amorphous Metal Cores Revenue by Manufacturer (2016-2017)

Figure Global Amorphous Metal Cores Revenue Market Share by Manufacturer in 2016

Figure Global Amorphous Metal Cores Revenue Market Share by Manufacturer in 2017

Table Global Amorphous Metal Cores Price by Manufacturer (2016-2017)

Figure Top 3 Amorphous Metal Cores Manufacturer (Revenue) Market Share in 2017

Figure Top 6 Amorphous Metal Cores Manufacturer (Revenue) Market Share in 2017

Figure Global Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Global Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Table Global Amorphous Metal Cores Sales by Regions (2013-2018)

Table Global Amorphous Metal Cores Sales Market Share by Regions (2013-2018)

Table Global Amorphous Metal Cores Revenue by Regions (2013-2018)

Figure Global Amorphous Metal Cores Revenue Market Share by Regions in 2013

Figure Global Amorphous Metal Cores Revenue Market Share by Regions in 2017

Figure North America Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure North America Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Figure Europe Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Europe Amorphous Metal Cores Revenue and Growth Rate (2013-2018)



Figure Asia-Pacific Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Asia-Pacific Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Figure South America Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure South America Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Figure Middle East and Africa Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Middle East and Africa Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Figure North America Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Table North America Amorphous Metal Cores Sales by Countries (2013-2018)

Table North America Amorphous Metal Cores Sales Market Share by Countries (2013-2018)

Figure North America Amorphous Metal Cores Sales Market Share by Countries in 2013

Figure North America Amorphous Metal Cores Sales Market Share by Countries in 2017

Table North America Amorphous Metal Cores Revenue by Countries (2013-2018)
Table North America Amorphous Metal Cores Revenue Market Share by Countries (2013-2018)

Figure North America Amorphous Metal Cores Revenue Market Share by Countries in 2013

Figure North America Amorphous Metal Cores Revenue Market Share by Countries in 2017

Figure United States Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Canada Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Mexico Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Table North America Amorphous Metal Cores Sales by Manufacturer (2016-2017)

Figure North America Amorphous Metal Cores Sales Market Share by Manufacturer in 2016

Figure North America Amorphous Metal Cores Sales Market Share by Manufacturer in 2017

Table North America Amorphous Metal Cores Revenue by Manufacturer (2016-2017) Figure North America Amorphous Metal Cores Revenue Market Share by Manufacturer in 2016

Figure North America Amorphous Metal Cores Revenue Market Share by Manufacturer in 2017

Table North America Amorphous Metal Cores Sales by Type (2013-2018)

Table North America Amorphous Metal Cores Sales Share by Type (2013-2018)

Table North America Amorphous Metal Cores Revenue by Type (2013-2018)



Table North America Amorphous Metal Cores Revenue Share by Type (2013-2018)

Table North America Amorphous Metal Cores Sales by Application (2013-2018)

Table North America Amorphous Metal Cores Sales Share by Application (2013-2018)

Table North America Amorphous Metal Cores Revenue by Application (2013-2018)

Table North America Amorphous Metal Cores Revenue Share by Application (2013-2018)

Figure Europe Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Table Europe Amorphous Metal Cores Sales by Countries (2013-2018)

Table Europe Amorphous Metal Cores Sales Market Share by Countries (2013-2018)

Table Europe Amorphous Metal Cores Revenue by Countries (2013-2018)

Figure Europe Amorphous Metal Cores Revenue Market Share by Countries in 2016

Figure Europe Amorphous Metal Cores Revenue Market Share by Countries in 2017

Figure Germany Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure UK Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure France Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Russia Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Italy Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Table Europe Amorphous Metal Cores Sales by Manufacturer (2016-2017)

Figure Europe Amorphous Metal Cores Sales Market Share by Manufacturer in 2016

Figure Europe Amorphous Metal Cores Sales Market Share by Manufacturer in 2017

Table Europe Amorphous Metal Cores Revenue by Manufacturer (2016-2017)

Figure Europe Amorphous Metal Cores Revenue Market Share by Manufacturer in 2016

Figure Europe Amorphous Metal Cores Revenue Market Share by Manufacturer in 2017

Table Europe Amorphous Metal Cores Sales by Type (2013-2018)

Table Europe Amorphous Metal Cores Sales Share by Type (2013-2018)

Table Europe Amorphous Metal Cores Revenue by Type (2013-2018)

Table Europe Amorphous Metal Cores Revenue Share by Type (2013-2018)

Table Europe Amorphous Metal Cores Sales by Application (2013-2018)

Table Europe Amorphous Metal Cores Sales Share by Application (2013-2018)

Table Europe Amorphous Metal Cores Revenue by Application (2013-2018)

Table Europe Amorphous Metal Cores Revenue Share by Application (2013-2018)

Figure Asia-Pacific Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Sales by Countries (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Sales Market Share by Countries (2013-2018)

Figure Asia-Pacific Amorphous Metal Cores Sales Market Share by Countries 2017 Table Asia-Pacific Amorphous Metal Cores Revenue by Countries (2013-2018)



Figure Asia-Pacific Amorphous Metal Cores Revenue Market Share by Countries 2017

Figure China Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Japan Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Korea Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure India Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Southeast Asia Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Sales by Manufacturer (2016-2017)

Figure Asia-Pacific Amorphous Metal Cores Sales Market Share by Manufacturer in 2016

Figure Asia-Pacific Amorphous Metal Cores Sales Market Share by Manufacturer in 2017

Table Asia-Pacific Amorphous Metal Cores Revenue by Manufacturer (2016-2017)

Figure Asia-Pacific Amorphous Metal Cores Revenue Market Share by Manufacturer in 2016

Figure Asia-Pacific Amorphous Metal Cores Revenue Market Share by Manufacturer in 2017

Table Asia-Pacific Amorphous Metal Cores Sales by Type (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Sales Share by Type (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Revenue by Type (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Revenue Share by Type (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Sales by Application (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Sales Share by Application (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Revenue by Application (2013-2018)

Table Asia-Pacific Amorphous Metal Cores Revenue Share by Application (2013-2018)

Figure South America Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Table South America Amorphous Metal Cores Sales by Countries (2013-2018)

Table South America Amorphous Metal Cores Sales Market Share by Countries (2013-2018)

Figure South America Amorphous Metal Cores Sales Market Share by Countries in 2017

Table South America Amorphous Metal Cores Revenue by Countries (2013-2018)

Table South America Amorphous Metal Cores Revenue Market Share by Countries (2013-2018)

Figure South America Amorphous Metal Cores Revenue Market Share by Countries in 2017

Figure Brazil Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Argentina Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Colombia Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Table South America Amorphous Metal Cores Sales by Manufacturer (2016-2017)



Figure South America Amorphous Metal Cores Sales Market Share by Manufacturer in 2016

Figure South America Amorphous Metal Cores Sales Market Share by Manufacturer in 2017

Table South America Amorphous Metal Cores Revenue by Manufacturer (2016-2017) Figure South America Amorphous Metal Cores Revenue Market Share by Manufacturer in 2016

Figure South America Amorphous Metal Cores Revenue Market Share by Manufacturer in 2017

Table South America Amorphous Metal Cores Sales by Type (2013-2018)

Table South America Amorphous Metal Cores Sales Share by Type (2013-2018)

Table South America Amorphous Metal Cores Revenue by Type (2013-2018)

Table South America Amorphous Metal Cores Revenue Share by Type (2013-2018)

Table South America Amorphous Metal Cores Sales by Application (2013-2018)

Table South America Amorphous Metal Cores Sales Share by Application (2013-2018)

Table South America Amorphous Metal Cores Revenue by Application (2013-2018)

Table South America Amorphous Metal Cores Revenue Share by Application (2013-2018)

Figure Middle East and Africa Amorphous Metal Cores Revenue and Growth Rate (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Sales by Countries (2013-2018)
Table Middle East and Africa Amorphous Metal Cores Sales Market Share by Countries (2013-2018)

Figure Middle East and Africa Amorphous Metal Cores Sales Market Share by Countries in 2017

Table Middle East and Africa Amorphous Metal Cores Revenue by Countries (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Revenue Market Share by Countries (2013-2018)

Figure Middle East and Africa Amorphous Metal Cores Revenue Market Share by Countries in 2013

Figure Middle East and Africa Amorphous Metal Cores Revenue Market Share by Countries in 2017

Figure Saudi Arabia Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure UAE Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Egypt Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure Nigeria Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Figure South Africa Amorphous Metal Cores Sales and Growth Rate (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Sales by Manufacturer



(2016-2017)

Figure Middle East and Africa Amorphous Metal Cores Sales Market Share by Manufacturer in 2016

Figure Middle East and Africa Amorphous Metal Cores Sales Market Share by Manufacturer in 2017

Table Middle East and Africa Amorphous Metal Cores Revenue by Manufacturer (2016-2017)

Figure Middle East and Africa Amorphous Metal Cores Revenue Market Share by Manufacturer in 2016

Figure Middle East and Africa Amorphous Metal Cores Revenue Market Share by Manufacturer in 2017

Table Middle East and Africa Amorphous Metal Cores Sales by Type (2013-2018) Table Middle East and Africa Amorphous Metal Cores Sales Share by Type (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Revenue by Type (2013-2018) Table Middle East and Africa Amorphous Metal Cores Revenue Share by Type (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Sales by Application (2013-2018) Table Middle East and Africa Amorphous Metal Cores Sales Share by Application (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Revenue by Application (2013-2018)

Table Middle East and Africa Amorphous Metal Cores Revenue Share by Application (2013-2018)

Table Global Amorphous Metal Cores Sales by Type (2013-2018)

Table Global Amorphous Metal Cores Sales Share by Type (2013-2018)

Table Global Amorphous Metal Cores Revenue by Type (2013-2018)

Table Global Amorphous Metal Cores Revenue Share by Type (2013-2018)

Figure Global C Core Sales Growth (2013-2018)

Figure Global C Core Price (2013-2018)

Figure Global E Core Sales Growth (2013-2018)

Figure Global E Core Price (2013-2018)

Figure Global Other Sales Growth (2013-2018)

Figure Global Other Price (2013-2018)

Table Global Amorphous Metal Cores Sales by Application (2013-2018)

Table Global Amorphous Metal Cores Sales Share by Application (2013-2018)

Figure Global Transformer Sales Growth (2013-2018)

Figure Global Inverter Sales Growth (2013-2018)

Figure Global Others Sales Growth (2013-2018)



Figure Global Amorphous Metal Cores Sales, Revenue and Growth Rate (2018-2023)
Table Global Amorphous Metal Cores Sales Forecast by Regions (2018-2023)
Table Global Amorphous Metal Cores Market Share Forecast by Regions (2018-2023)
Figure North America Sales Amorphous Metal Cores Market Forecast (2018-2023)
Figure Europe Sales Amorphous Metal Cores Market Forecast (2018-2023)
Figure Asia-Pacific Sales Amorphous Metal Cores Market Forecast (2018-2023)
Figure South America Sales Amorphous Metal Cores Market Forecast (2018-2023)
Figure Middle East and Africa Sales Amorphous Metal Cores Market Forecast (2018-2023)

Table Global Amorphous Metal Cores Sales Forecast by Type (2018-2023)
Table Global Amorphous Metal Cores Market Share Forecast by Type (2018-2023)
Table Global Amorphous Metal Cores Sales Forecast by Application (2018-2023)
Table Global Amorphous Metal Cores Market Share Forecast by Application (2018-2023)

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