

# 2018-2023 Global Shape Memory Alloys Consumption Market Report

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## 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 Shape Memory Alloys market for 2018-2023. A shape memory alloy (SMA) is an alloy that 'remembers' its original shape and that when deformed returns to its pre-deformed shape when heated. This material is a lightweight, solid-state alternative to conventional actuators such as hydraulic, pneumatic, and motor-based systems. Shape-memory alloys have applications in industries including Automotive, aerospace, and biomedical and robotics. Nickel-titanium alloys have been found to be the most useful of all SMAs. Other shape memory alloys include copper-aluminum-nickel, copper-zinc-aluminum, and iron-manganese-silicon alloys. The generic name for the family of nickel-titanium alloys is Nitinol. At present, in the foreign industrial developed countries the shape memory alloys industry is generally at a more advanced level, the world's large enterprises are mainly concentrated in the Europe United States and Japan. Meanwhile, foreign companies have more mature equipment, strong R & D capability, the technical level is in a leading position. But foreign companies' manufacturing cost is relatively high, compared with china's companies, the manufacturing cost is competitive disadvantage, as the Chinese shape memory alloys production enterprise technology continues to improve, their share in the international market is increasing, competitiveness in the international market gradually increase.

China shape memory alloys industry has developed into a national industry with certain research and production capacity, industry product mix has gradually improved. Currently, China has become international shape memory alloys major consumption country, but the production technology is relatively laggard, currently can only produce some low-end product. Although after 2012 the new production lines is increasing, the

technology is still relying on import.

Currently the global major manufacturers are: Nitinol Devices & Components, SAES Getters, G.RAU GMBH & CO. KG (Euroflex and Admedes Schuessler). Although many new projects are put into production in recent years, in short future, the competition pattern will not change.

Over the next five years, LPI(LP Information) projects that Shape Memory Alloys will register a 8.8% CAGR in terms of revenue, reach US\$ 910 million by 2023, from US\$ 550 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Shape Memory Alloys 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:

Nickel-Titanium (Ni-Ti) Shape Memory Alloys

Copper Based Shape Memory Alloys

Fe Based Shape Memory Alloys

Segmentation by application:

Medical Applications

Aircraft Applications

Automotive

Home Appliance

Other

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 landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Nitinol Devices & Components

SAES Getters

G.RAU GmbH & Co. KG

ATI Wah-chang

Johnson Matthey

Fort Wayne Metals

Furukawa Electric

Nippon Steel & Sumitomo Metal

Nippon Seisen

Metalwerks PMD

Ultimate NiTi Technologies

Dynalloy

Grikin

PEIER Tech

Saite Metal

Smart

Baoji Seabird Metal

GEE

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 Shape Memory Alloys 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 Shape Memory Alloys market by identifying its various subsegments.

Focuses on the key global Shape Memory Alloys 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 Shape Memory Alloys 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 Shape Memory Alloys 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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