

Global Shape Memory Alloys Market Insights, Forecast to 2026

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Abstracts

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.

With the rapid growth of the national economy as well as the rapid development of downstream industries, Chinese shape memory alloys market demand is increasing, it provide a good opportunity for the development of Shape memory alloys market and technology.

Despite the presence of competition problems, due to the global recovery trend is clear, investors are still optimistic about this area, the future will still have more new investment enter the field.

Along with the development of Chinese domestic equipment, Chinese domestic equipment has been very mature and advanced, and the performance distance has been shorten compared with the imported equipment.

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 Shape Memory Alloys 3900 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 Shape Memory Alloys 3900 industry.

Based on our recent survey, we have several different scenarios about the Shape Memory Alloys 3900 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\$ 745.7 million in 2019. The market size of Shape Memory Alloys 3900 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 Shape Memory Alloys 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 Shape Memory Alloys market in terms of both revenue and volume.

Players, stakeholders, and other participants in the global Shape Memory Alloys 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.

Sales and Pricing Analyses

Readers are provided with deeper sales analysis and pricing analysis for the global Shape Memory Alloys market. As part of sales analysis, the report offers accurate statistics and figures for sales and revenue by region, 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 the price by players and price by region for the period 2015-2020 and price by each type segment for the period 2015-2020.

Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Shape Memory Alloys 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 sales for the period 2015-2026.

Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of the global Shape Memory Alloys 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 Shape Memory Alloys 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 Shape Memory Alloys market.

The following manufacturers are 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

Shape Memory Alloys Breakdown Data by Type

Nickel-Titanium

Copper Based

Fe Based

Others

Shape Memory Alloys Breakdown Data by Application

Medical Applications

Aircraft Applications

Automotive

Home Appliance

Others

Contents

1 STUDY COVERAGE

- 1.1 Shape Memory Alloys Product Introduction
- 1.2 Market Segments
- 1.3 Key Shape Memory Alloys Manufacturers Covered: Ranking by Revenue
- 1.4 Market by Type
 - 1.4.1 Global Shape Memory Alloys Market Size Growth Rate by Type
 - 1.4.2 Nickel-Titanium
 - 1.4.3 Copper Based
 - 1.4.4 Fe Based
 - 1.4.5 Others
- 1.5 Market by Application
 - 1.5.1 Global Shape Memory Alloys Market Size Growth Rate by Application
 - 1.5.2 Medical Applications
 - 1.5.3 Aircraft Applications
 - 1.5.4 Automotive
 - 1.5.5 Home Appliance
 - 1.5.6 Others
- 1.6 Coronavirus Disease 2019 (Covid-19): Shape Memory Alloys Industry Impact
 - 1.6.1 How the Covid-19 is Affecting the Shape Memory Alloys Industry
 - 1.6.1.1 Shape Memory Alloys Business Impact Assessment - Covid-19
 - 1.6.1.2 Supply Chain Challenges
 - 1.6.1.3 COVID-19's Impact On Crude Oil and Refined Products
 - 1.6.2 Market Trends and Shape Memory Alloys Potential Opportunities in the COVID-19 Landscape
 - 1.6.3 Measures / Proposal against Covid-19
 - 1.6.3.1 Government Measures to Combat Covid-19 Impact
 - 1.6.3.2 Proposal for Shape Memory Alloys Players to Combat Covid-19 Impact
- 1.7 Study Objectives
- 1.8 Years Considered

2 EXECUTIVE SUMMARY

- 2.1 Global Shape Memory Alloys Market Size Estimates and Forecasts
 - 2.1.1 Global Shape Memory Alloys Revenue 2015-2026
 - 2.1.2 Global Shape Memory Alloys Sales 2015-2026
- 2.2 Shape Memory Alloys Market Size by Region: 2020 Versus 2026

2.2.1 Global Shape Memory Alloys Retrospective Market Scenario in Sales by Region: 2015-2020

2.2.2 Global Shape Memory Alloys Retrospective Market Scenario in Revenue by Region: 2015-2020

3 GLOBAL SHAPE MEMORY ALLOYS COMPETITOR LANDSCAPE BY PLAYERS

3.1 Shape Memory Alloys Sales by Manufacturers

3.1.1 Shape Memory Alloys Sales by Manufacturers (2015-2020)

3.1.2 Shape Memory Alloys Sales Market Share by Manufacturers (2015-2020)

3.2 Shape Memory Alloys Revenue by Manufacturers

3.2.1 Shape Memory Alloys Revenue by Manufacturers (2015-2020)

3.2.2 Shape Memory Alloys Revenue Share by Manufacturers (2015-2020)

3.2.3 Global Shape Memory Alloys Market Concentration Ratio (CR5 and HHI) (2015-2020)

3.2.4 Global Top 10 and Top 5 Companies by Shape Memory Alloys Revenue in 2019

3.2.5 Global Shape Memory Alloys Market Share by Company Type (Tier 1, Tier 2 and Tier 3)

3.3 Shape Memory Alloys Price by Manufacturers

3.4 Shape Memory Alloys Manufacturing Base Distribution, Product Types

3.4.1 Shape Memory Alloys Manufacturers Manufacturing Base Distribution, Headquarters

3.4.2 Manufacturers Shape Memory Alloys Product Type

3.4.3 Date of International Manufacturers Enter into Shape Memory Alloys Market

3.5 Manufacturers Mergers & Acquisitions, Expansion Plans

4 BREAKDOWN DATA BY TYPE (2015-2026)

4.1 Global Shape Memory Alloys Market Size by Type (2015-2020)

4.1.1 Global Shape Memory Alloys Sales by Type (2015-2020)

4.1.2 Global Shape Memory Alloys Revenue by Type (2015-2020)

4.1.3 Shape Memory Alloys Average Selling Price (ASP) by Type (2015-2026)

4.2 Global Shape Memory Alloys Market Size Forecast by Type (2021-2026)

4.2.1 Global Shape Memory Alloys Sales Forecast by Type (2021-2026)

4.2.2 Global Shape Memory Alloys Revenue Forecast by Type (2021-2026)

4.2.3 Shape Memory Alloys Average Selling Price (ASP) Forecast by Type (2021-2026)

4.3 Global Shape Memory Alloys Market Share by Price Tier (2015-2020): Low-End, Mid-Range and High-End

5 BREAKDOWN DATA BY APPLICATION (2015-2026)

5.1 Global Shape Memory Alloys Market Size by Application (2015-2020)

5.1.1 Global Shape Memory Alloys Sales by Application (2015-2020)

5.1.2 Global Shape Memory Alloys Revenue by Application (2015-2020)

5.1.3 Shape Memory Alloys Price by Application (2015-2020)

5.2 Shape Memory Alloys Market Size Forecast by Application (2021-2026)

5.2.1 Global Shape Memory Alloys Sales Forecast by Application (2021-2026)

5.2.2 Global Shape Memory Alloys Revenue Forecast by Application (2021-2026)

5.2.3 Global Shape Memory Alloys Price Forecast by Application (2021-2026)

6 NORTH AMERICA

6.1 North America Shape Memory Alloys by Country

6.1.1 North America Shape Memory Alloys Sales by Country

6.1.2 North America Shape Memory Alloys Revenue by Country

6.1.3 U.S.

6.1.4 Canada

6.2 North America Shape Memory Alloys Market Facts & Figures by Type

6.3 North America Shape Memory Alloys Market Facts & Figures by Application

7 EUROPE

7.1 Europe Shape Memory Alloys by Country

7.1.1 Europe Shape Memory Alloys Sales by Country

7.1.2 Europe Shape Memory Alloys Revenue by Country

7.1.3 Germany

7.1.4 France

7.1.5 U.K.

7.1.6 Italy

7.1.7 Russia

7.2 Europe Shape Memory Alloys Market Facts & Figures by Type

7.3 Europe Shape Memory Alloys Market Facts & Figures by Application

8 ASIA PACIFIC

8.1 Asia Pacific Shape Memory Alloys by Region

8.1.1 Asia Pacific Shape Memory Alloys Sales by Region

8.1.2 Asia Pacific Shape Memory Alloys Revenue by Region

8.1.3 China

8.1.4 Japan

8.1.5 South Korea

8.1.6 India

8.1.7 Australia

8.1.8 Taiwan

8.1.9 Indonesia

8.1.10 Thailand

8.1.11 Malaysia

8.1.12 Philippines

8.1.13 Vietnam

8.2 Asia Pacific Shape Memory Alloys Market Facts & Figures by Type

8.3 Asia Pacific Shape Memory Alloys Market Facts & Figures by Application

9 LATIN AMERICA

9.1 Latin America Shape Memory Alloys by Country

9.1.1 Latin America Shape Memory Alloys Sales by Country

9.1.2 Latin America Shape Memory Alloys Revenue by Country

9.1.3 Mexico

9.1.4 Brazil

9.1.5 Argentina

9.2 Central & South America Shape Memory Alloys Market Facts & Figures by Type

9.3 Central & South America Shape Memory Alloys Market Facts & Figures by Application

10 MIDDLE EAST AND AFRICA

10.1 Middle East and Africa Shape Memory Alloys by Country

10.1.1 Middle East and Africa Shape Memory Alloys Sales by Country

10.1.2 Middle East and Africa Shape Memory Alloys Revenue by Country

10.1.3 Turkey

10.1.4 Saudi Arabia

10.1.5 UAE

10.2 Middle East and Africa Shape Memory Alloys Market Facts & Figures by Type

10.3 Middle East and Africa Shape Memory Alloys Market Facts & Figures by Application

11 COMPANY PROFILES

11.1 Nitinol Devices & Components

11.1.1 Nitinol Devices & Components Corporation Information

11.1.2 Nitinol Devices & Components Description, Business Overview and Total Revenue

11.1.3 Nitinol Devices & Components Sales, Revenue and Gross Margin (2015-2020)

11.1.4 Nitinol Devices & Components Shape Memory Alloys Products Offered

11.1.5 Nitinol Devices & Components Recent Development

11.2 SAES Getters

11.2.1 SAES Getters Corporation Information

11.2.2 SAES Getters Description, Business Overview and Total Revenue

11.2.3 SAES Getters Sales, Revenue and Gross Margin (2015-2020)

11.2.4 SAES Getters Shape Memory Alloys Products Offered

11.2.5 SAES Getters Recent Development

11.3 G.RAU GmbH & Co. KG

11.3.1 G.RAU GmbH & Co. KG Corporation Information

11.3.2 G.RAU GmbH & Co. KG Description, Business Overview and Total Revenue

11.3.3 G.RAU GmbH & Co. KG Sales, Revenue and Gross Margin (2015-2020)

11.3.4 G.RAU GmbH & Co. KG Shape Memory Alloys Products Offered

11.3.5 G.RAU GmbH & Co. KG Recent Development

11.4 ATI Wah-chang

11.4.1 ATI Wah-chang Corporation Information

11.4.2 ATI Wah-chang Description, Business Overview and Total Revenue

11.4.3 ATI Wah-chang Sales, Revenue and Gross Margin (2015-2020)

11.4.4 ATI Wah-chang Shape Memory Alloys Products Offered

11.4.5 ATI Wah-chang Recent Development

11.5 Johnson Matthey

11.5.1 Johnson Matthey Corporation Information

11.5.2 Johnson Matthey Description, Business Overview and Total Revenue

11.5.3 Johnson Matthey Sales, Revenue and Gross Margin (2015-2020)

11.5.4 Johnson Matthey Shape Memory Alloys Products Offered

11.5.5 Johnson Matthey Recent Development

11.6 Fort Wayne Metals

11.6.1 Fort Wayne Metals Corporation Information

11.6.2 Fort Wayne Metals Description, Business Overview and Total Revenue

11.6.3 Fort Wayne Metals Sales, Revenue and Gross Margin (2015-2020)

11.6.4 Fort Wayne Metals Shape Memory Alloys Products Offered

11.6.5 Fort Wayne Metals Recent Development

11.7 Furukawa Electric

11.7.1 Furukawa Electric Corporation Information

11.7.2 Furukawa Electric Description, Business Overview and Total Revenue

11.7.3 Furukawa Electric Sales, Revenue and Gross Margin (2015-2020)

11.7.4 Furukawa Electric Shape Memory Alloys Products Offered

11.7.5 Furukawa Electric Recent Development

11.8 Nippon Steel & Sumitomo Metal

11.8.1 Nippon Steel & Sumitomo Metal Corporation Information

11.8.2 Nippon Steel & Sumitomo Metal Description, Business Overview and Total Revenue

11.8.3 Nippon Steel & Sumitomo Metal Sales, Revenue and Gross Margin (2015-2020)

11.8.4 Nippon Steel & Sumitomo Metal Shape Memory Alloys Products Offered

11.8.5 Nippon Steel & Sumitomo Metal Recent Development

11.9 Nippon Seisen

11.9.1 Nippon Seisen Corporation Information

11.9.2 Nippon Seisen Description, Business Overview and Total Revenue

11.9.3 Nippon Seisen Sales, Revenue and Gross Margin (2015-2020)

11.9.4 Nippon Seisen Shape Memory Alloys Products Offered

11.9.5 Nippon Seisen Recent Development

11.10 Metalwerks PMD

11.10.1 Metalwerks PMD Corporation Information

11.10.2 Metalwerks PMD Description, Business Overview and Total Revenue

11.10.3 Metalwerks PMD Sales, Revenue and Gross Margin (2015-2020)

11.10.4 Metalwerks PMD Shape Memory Alloys Products Offered

11.10.5 Metalwerks PMD Recent Development

11.1 Nitinol Devices & Components

11.1.1 Nitinol Devices & Components Corporation Information

11.1.2 Nitinol Devices & Components Description, Business Overview and Total Revenue

11.1.3 Nitinol Devices & Components Sales, Revenue and Gross Margin (2015-2020)

11.1.4 Nitinol Devices & Components Shape Memory Alloys Products Offered

11.1.5 Nitinol Devices & Components Recent Development

11.12 Dynalloy

11.12.1 Dynalloy Corporation Information

11.12.2 Dynalloy Description, Business Overview and Total Revenue

11.12.3 Dynalloy Sales, Revenue and Gross Margin (2015-2020)

11.12.4 Dynalloy Products Offered

11.12.5 Dynalloy Recent Development

11.13 Grikin

11.13.1 Grikin Corporation Information

11.13.2 Grikin Description, Business Overview and Total Revenue

11.13.3 Grikin Sales, Revenue and Gross Margin (2015-2020)

11.13.4 Grikin Products Offered

11.13.5 Grikin Recent Development

11.14 PEIER Tech

11.14.1 PEIER Tech Corporation Information

11.14.2 PEIER Tech Description, Business Overview and Total Revenue

11.14.3 PEIER Tech Sales, Revenue and Gross Margin (2015-2020)

11.14.4 PEIER Tech Products Offered

11.14.5 PEIER Tech Recent Development

11.15 Saite Metal

11.15.1 Saite Metal Corporation Information

11.15.2 Saite Metal Description, Business Overview and Total Revenue

11.15.3 Saite Metal Sales, Revenue and Gross Margin (2015-2020)

11.15.4 Saite Metal Products Offered

11.15.5 Saite Metal Recent Development

11.16 Smart

11.16.1 Smart Corporation Information

11.16.2 Smart Description, Business Overview and Total Revenue

11.16.3 Smart Sales, Revenue and Gross Margin (2015-2020)

11.16.4 Smart Products Offered

11.16.5 Smart Recent Development

11.17 Baoji Seabird Metal

11.17.1 Baoji Seabird Metal Corporation Information

11.17.2 Baoji Seabird Metal Description, Business Overview and Total Revenue

11.17.3 Baoji Seabird Metal Sales, Revenue and Gross Margin (2015-2020)

11.17.4 Baoji Seabird Metal Products Offered

11.17.5 Baoji Seabird Metal Recent Development

11.18 GEE

11.18.1 GEE Corporation Information

11.18.2 GEE Description, Business Overview and Total Revenue

11.18.3 GEE Sales, Revenue and Gross Margin (2015-2020)

11.18.4 GEE Products Offered

11.18.5 GEE Recent Development

12 FUTURE FORECAST BY REGIONS (COUNTRIES) (2021-2026)

- 12.1 Shape Memory Alloys Market Estimates and Projections by Region
 - 12.1.1 Global Shape Memory Alloys Sales Forecast by Regions 2021-2026
 - 12.1.2 Global Shape Memory Alloys Revenue Forecast by Regions 2021-2026
- 12.2 North America Shape Memory Alloys Market Size Forecast (2021-2026)
 - 12.2.1 North America: Shape Memory Alloys Sales Forecast (2021-2026)
 - 12.2.2 North America: Shape Memory Alloys Revenue Forecast (2021-2026)
 - 12.2.3 North America: Shape Memory Alloys Market Size Forecast by Country (2021-2026)
- 12.3 Europe Shape Memory Alloys Market Size Forecast (2021-2026)
 - 12.3.1 Europe: Shape Memory Alloys Sales Forecast (2021-2026)
 - 12.3.2 Europe: Shape Memory Alloys Revenue Forecast (2021-2026)
 - 12.3.3 Europe: Shape Memory Alloys Market Size Forecast by Country (2021-2026)
- 12.4 Asia Pacific Shape Memory Alloys Market Size Forecast (2021-2026)
 - 12.4.1 Asia Pacific: Shape Memory Alloys Sales Forecast (2021-2026)
 - 12.4.2 Asia Pacific: Shape Memory Alloys Revenue Forecast (2021-2026)
 - 12.4.3 Asia Pacific: Shape Memory Alloys Market Size Forecast by Region (2021-2026)
- 12.5 Latin America Shape Memory Alloys Market Size Forecast (2021-2026)
 - 12.5.1 Latin America: Shape Memory Alloys Sales Forecast (2021-2026)
 - 12.5.2 Latin America: Shape Memory Alloys Revenue Forecast (2021-2026)
 - 12.5.3 Latin America: Shape Memory Alloys Market Size Forecast by Country (2021-2026)
- 12.6 Middle East and Africa Shape Memory Alloys Market Size Forecast (2021-2026)
 - 12.6.1 Middle East and Africa: Shape Memory Alloys Sales Forecast (2021-2026)
 - 12.6.2 Middle East and Africa: Shape Memory Alloys Revenue Forecast (2021-2026)
 - 12.6.3 Middle East and Africa: Shape Memory Alloys Market Size Forecast by Country (2021-2026)

13 MARKET OPPORTUNITIES, CHALLENGES, RISKS AND INFLUENCES FACTORS ANALYSIS

- 13.1 Market Opportunities and Drivers
- 13.2 Market Challenges
- 13.3 Market Risks/Restraints
- 13.4 Porter's Five Forces Analysis
- 13.5 Primary Interviews with Key Shape Memory Alloys Players (Opinion Leaders)

14 VALUE CHAIN AND SALES CHANNELS ANALYSIS

- 14.1 Value Chain Analysis
- 14.2 Shape Memory Alloys Customers
- 14.3 Sales Channels Analysis
 - 14.3.1 Sales Channels
 - 14.3.2 Distributors

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Research Methodology
 - 16.1.1 Methodology/Research Approach
 - 16.1.2 Data Source
- 16.2 Author Details

List Of Tables

LIST OF TABLES

Table 1. Shape Memory Alloys Market Segments

Table 2. Ranking of Global Top Shape Memory Alloys Manufacturers by Revenue (US\$ Million) in 2019

Table 3. Global Shape Memory Alloys Market Size Growth Rate by Type 2020-2026 (MT) & (US\$ Million)

Table 4. Major Manufacturers of Nickel-Titanium

Table 5. Major Manufacturers of Copper Based

Table 6. Major Manufacturers of Fe Based

Table 7. Major Manufacturers of Others

Table 8. COVID-19 Impact Global Market: (Four Shape Memory Alloys Market Size Forecast Scenarios)

Table 9. Opportunities and Trends for Shape Memory Alloys Players in the COVID-19 Landscape

Table 10. Present Opportunities in China & Elsewhere Due to the Coronavirus Crisis

Table 11. Key Regions/Countries Measures against Covid-19 Impact

Table 12. Proposal for Shape Memory Alloys Players to Combat Covid-19 Impact

Table 13. Global Shape Memory Alloys Market Size Growth Rate by Application 2020-2026 (MT)

Table 14. Global Shape Memory Alloys Market Size by Region (MT) & (US\$ Million): 2020 VS 2026

Table 15. Global Shape Memory Alloys Sales by Regions 2015-2020 (MT)

Table 16. Global Shape Memory Alloys Sales Market Share by Regions (2015-2020)

Table 17. Global Shape Memory Alloys Revenue by Regions 2015-2020 (US\$ Million)

Table 18. Global Shape Memory Alloys Sales by Manufacturers (2015-2020) (MT)

Table 19. Global Shape Memory Alloys Sales Share by Manufacturers (2015-2020)

Table 20. Global Shape Memory Alloys Manufacturers Market Concentration Ratio (CR5 and HHI) (2015-2020)

Table 21. Global Shape Memory Alloys by Company Type (Tier 1, Tier 2 and Tier 3) (based on the Revenue in Shape Memory Alloys as of 2019)

Table 22. Shape Memory Alloys Revenue by Manufacturers (2015-2020) (US\$ Million)

Table 23. Shape Memory Alloys Revenue Share by Manufacturers (2015-2020)

Table 24. Key Manufacturers Shape Memory Alloys Price (2015-2020) (USD/MT)

Table 25. Shape Memory Alloys Manufacturers Manufacturing Base Distribution and Headquarters

Table 26. Manufacturers Shape Memory Alloys Product Type

- Table 27. Date of International Manufacturers Enter into Shape Memory Alloys Market
- Table 28. Manufacturers Mergers & Acquisitions, Expansion Plans
- Table 29. Global Shape Memory Alloys Sales by Type (2015-2020) (MT)
- Table 30. Global Shape Memory Alloys Sales Share by Type (2015-2020)
- Table 31. Global Shape Memory Alloys Revenue by Type (2015-2020) (US\$ Million)
- Table 32. Global Shape Memory Alloys Revenue Share by Type (2015-2020)
- Table 33. Shape Memory Alloys Average Selling Price (ASP) by Type 2015-2020 (USD/MT)
- Table 34. Global Shape Memory Alloys Sales by Application (2015-2020) (MT)
- Table 35. Global Shape Memory Alloys Sales Share by Application (2015-2020)
- Table 36. North America Shape Memory Alloys Sales by Country (2015-2020) (MT)
- Table 37. North America Shape Memory Alloys Sales Market Share by Country (2015-2020)
- Table 38. North America Shape Memory Alloys Revenue by Country (2015-2020) (US\$ Million)
- Table 39. North America Shape Memory Alloys Revenue Market Share by Country (2015-2020)
- Table 40. North America Shape Memory Alloys Sales by Type (2015-2020) (MT)
- Table 41. North America Shape Memory Alloys Sales Market Share by Type (2015-2020)
- Table 42. North America Shape Memory Alloys Sales by Application (2015-2020) (MT)
- Table 43. North America Shape Memory Alloys Sales Market Share by Application (2015-2020)
- Table 44. Europe Shape Memory Alloys Sales by Country (2015-2020) (MT)
- Table 45. Europe Shape Memory Alloys Sales Market Share by Country (2015-2020)
- Table 46. Europe Shape Memory Alloys Revenue by Country (2015-2020) (US\$ Million)
- Table 47. Europe Shape Memory Alloys Revenue Market Share by Country (2015-2020)
- Table 48. Europe Shape Memory Alloys Sales by Type (2015-2020) (MT)
- Table 49. Europe Shape Memory Alloys Sales Market Share by Type (2015-2020)
- Table 50. Europe Shape Memory Alloys Sales by Application (2015-2020) (MT)
- Table 51. Europe Shape Memory Alloys Sales Market Share by Application (2015-2020)
- Table 52. Asia Pacific Shape Memory Alloys Sales by Region (2015-2020) (MT)
- Table 53. Asia Pacific Shape Memory Alloys Sales Market Share by Region (2015-2020)
- Table 54. Asia Pacific Shape Memory Alloys Revenue by Region (2015-2020) (US\$ Million)
- Table 55. Asia Pacific Shape Memory Alloys Revenue Market Share by Region (2015-2020)

- Table 56. Asia Pacific Shape Memory Alloys Sales by Type (2015-2020) (MT)
- Table 57. Asia Pacific Shape Memory Alloys Sales Market Share by Type (2015-2020)
- Table 58. Asia Pacific Shape Memory Alloys Sales by Application (2015-2020) (MT)
- Table 59. Asia Pacific Shape Memory Alloys Sales Market Share by Application (2015-2020)
- Table 60. Latin America Shape Memory Alloys Sales by Country (2015-2020) (MT)
- Table 61. Latin America Shape Memory Alloys Sales Market Share by Country (2015-2020)
- Table 62. Latin Americaa Shape Memory Alloys Revenue by Country (2015-2020) (US\$ Million)
- Table 63. Latin America Shape Memory Alloys Revenue Market Share by Country (2015-2020)
- Table 64. Latin America Shape Memory Alloys Sales by Type (2015-2020) (MT)
- Table 65. Latin America Shape Memory Alloys Sales Market Share by Type (2015-2020)
- Table 66. Latin America Shape Memory Alloys Sales by Application (2015-2020) (MT)
- Table 67. Latin America Shape Memory Alloys Sales Market Share by Application (2015-2020)
- Table 68. Middle East and Africa Shape Memory Alloys Sales by Country (2015-2020) (MT)
- Table 69. Middle East and Africa Shape Memory Alloys Sales Market Share by Country (2015-2020)
- Table 70. Middle East and Africa Shape Memory Alloys Revenue by Country (2015-2020) (US\$ Million)
- Table 71. Middle East and Africa Shape Memory Alloys Revenue Market Share by Country (2015-2020)
- Table 72. Middle East and Africa Shape Memory Alloys Sales by Type (2015-2020) (MT)
- Table 73. Middle East and Africa Shape Memory Alloys Sales Market Share by Type (2015-2020)
- Table 74. Middle East and Africa Shape Memory Alloys Sales by Application (2015-2020) (MT)
- Table 75. Middle East and Africa Shape Memory Alloys Sales Market Share by Application (2015-2020)
- Table 76. Nitinol Devices & Components Corporation Information
- Table 77. Nitinol Devices & Components Description and Major Businesses
- Table 78. Nitinol Devices & Components Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 79. Nitinol Devices & Components Product

- Table 80. Nitinol Devices & Components Recent Development
- Table 81. SAES Getters Corporation Information
- Table 82. SAES Getters Description and Major Businesses
- Table 83. SAES Getters Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 84. SAES Getters Product
- Table 85. SAES Getters Recent Development
- Table 86. G.RAU GmbH & Co. KG Corporation Information
- Table 87. G.RAU GmbH & Co. KG Description and Major Businesses
- Table 88. G.RAU GmbH & Co. KG Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 89. G.RAU GmbH & Co. KG Product
- Table 90. G.RAU GmbH & Co. KG Recent Development
- Table 91. ATI Wah-chang Corporation Information
- Table 92. ATI Wah-chang Description and Major Businesses
- Table 93. ATI Wah-chang Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 94. ATI Wah-chang Product
- Table 95. ATI Wah-chang Recent Development
- Table 96. Johnson Matthey Corporation Information
- Table 97. Johnson Matthey Description and Major Businesses
- Table 98. Johnson Matthey Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 99. Johnson Matthey Product
- Table 100. Johnson Matthey Recent Development
- Table 101. Fort Wayne Metals Corporation Information
- Table 102. Fort Wayne Metals Description and Major Businesses
- Table 103. Fort Wayne Metals Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 104. Fort Wayne Metals Product
- Table 105. Fort Wayne Metals Recent Development
- Table 106. Furukawa Electric Corporation Information
- Table 107. Furukawa Electric Description and Major Businesses
- Table 108. Furukawa Electric Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 109. Furukawa Electric Product
- Table 110. Furukawa Electric Recent Development
- Table 111. Nippon Steel & Sumitomo Metal Corporation Information
- Table 112. Nippon Steel & Sumitomo Metal Description and Major Businesses

- Table 113. Nippon Steel & Sumitomo Metal Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 114. Nippon Steel & Sumitomo Metal Product
- Table 115. Nippon Steel & Sumitomo Metal Recent Development
- Table 116. Nippon Seisen Corporation Information
- Table 117. Nippon Seisen Description and Major Businesses
- Table 118. Nippon Seisen Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 119. Nippon Seisen Product
- Table 120. Nippon Seisen Recent Development
- Table 121. Metalwerks PMD Corporation Information
- Table 122. Metalwerks PMD Description and Major Businesses
- Table 123. Metalwerks PMD Shape Memory Alloys Production (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 124. Metalwerks PMD Product
- Table 125. Metalwerks PMD Recent Development
- Table 126. Ultimate NiTi Technologies Corporation Information
- Table 127. Ultimate NiTi Technologies Description and Major Businesses
- Table 128. Ultimate NiTi Technologies Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 129. Ultimate NiTi Technologies Product
- Table 130. Ultimate NiTi Technologies Recent Development
- Table 131. Dynalloy Corporation Information
- Table 132. Dynalloy Description and Major Businesses
- Table 133. Dynalloy Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 134. Dynalloy Product
- Table 135. Dynalloy Recent Development
- Table 136. Grikin Corporation Information
- Table 137. Grikin Description and Major Businesses
- Table 138. Grikin Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 139. Grikin Product
- Table 140. Grikin Recent Development
- Table 141. PEIER Tech Corporation Information
- Table 142. PEIER Tech Description and Major Businesses
- Table 143. PEIER Tech Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 144. PEIER Tech Product

- Table 145. PEIER Tech Recent Development
- Table 146. Saite Metal Corporation Information
- Table 147. Saite Metal Description and Major Businesses
- Table 148. Saite Metal Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 149. Saite Metal Product
- Table 150. Saite Metal Recent Development
- Table 151. Smart Corporation Information
- Table 152. Smart Description and Major Businesses
- Table 153. Smart Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 154. Smart Product
- Table 155. Smart Recent Development
- Table 156. Baoji Seabird Metal Corporation Information
- Table 157. Baoji Seabird Metal Description and Major Businesses
- Table 158. Baoji Seabird Metal Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 159. Baoji Seabird Metal Product
- Table 160. Baoji Seabird Metal Recent Development
- Table 161. GEE Corporation Information
- Table 162. GEE Description and Major Businesses
- Table 163. GEE Shape Memory Alloys Sales (MT), Revenue (US\$ Million), Price (USD/MT) and Gross Margin (2015-2020)
- Table 164. GEE Product
- Table 165. GEE Recent Development
- Table 166. Global Shape Memory Alloys Sales Forecast by Regions (2021-2026) (MT)
- Table 167. Global Shape Memory Alloys Sales Market Share Forecast by Regions (2021-2026)
- Table 168. Global Shape Memory Alloys Revenue Forecast by Regions (2021-2026) (US\$ Million)
- Table 169. Global Shape Memory Alloys Revenue Market Share Forecast by Regions (2021-2026)
- Table 170. North America: Shape Memory Alloys Sales Forecast by Country (2021-2026) (MT)
- Table 171. North America: Shape Memory Alloys Revenue Forecast by Country (2021-2026) (US\$ Million)
- Table 172. Europe: Shape Memory Alloys Sales Forecast by Country (2021-2026) (MT)
- Table 173. Europe: Shape Memory Alloys Revenue Forecast by Country (2021-2026) (US\$ Million)

Table 174. Asia Pacific: Shape Memory Alloys Sales Forecast by Region (2021-2026) (MT)

Table 175. Asia Pacific: Shape Memory Alloys Revenue Forecast by Region (2021-2026) (US\$ Million)

Table 176. Latin America: Shape Memory Alloys Sales Forecast by Country (2021-2026) (MT)

Table 177. Latin America: Shape Memory Alloys Revenue Forecast by Country (2021-2026) (US\$ Million)

Table 178. Middle East and Africa: Shape Memory Alloys Sales Forecast by Country (2021-2026) (MT)

Table 179. Middle East and Africa: Shape Memory Alloys Revenue Forecast by Country (2021-2026) (US\$ Million)

Table 180. Key Opportunities and Drivers: Impact Analysis (2021-2026)

Table 181. Key Challenges

Table 182. Market Risks

Table 183. Main Points Interviewed from Key Shape Memory Alloys Players

Table 184. Shape Memory Alloys Customers List

Table 185. Shape Memory Alloys Distributors List

Table 186. Research Programs/Design for This Report

Table 187. Key Data Information from Secondary Sources

Table 188. Key Data Information from Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Shape Memory Alloys Product Picture
- Figure 2. Global Shape Memory Alloys Sales Market Share by Type in 2020 & 2026
- Figure 3. Nickel-Titanium Product Picture
- Figure 4. Copper Based Product Picture
- Figure 5. Fe Based Product Picture
- Figure 6. Others Product Picture
- Figure 7. Global Shape Memory Alloys Sales Market Share by Application in 2020 & 2026
- Figure 8. Medical Applications
- Figure 9. Aircraft Applications
- Figure 10. Automotive
- Figure 11. Home Appliance
- Figure 12. Others
- Figure 13. Shape Memory Alloys Report Years Considered
- Figure 14. Global Shape Memory Alloys Market Size 2015-2026 (US\$ Million)
- Figure 15. Global Shape Memory Alloys Sales 2015-2026 (MT)
- Figure 16. Global Shape Memory Alloys Market Size Market Share by Region: 2020 Versus 2026
- Figure 17. Global Shape Memory Alloys Sales Market Share by Region (2015-2020)
- Figure 18. Global Shape Memory Alloys Sales Market Share by Region in 2019
- Figure 19. Global Shape Memory Alloys Revenue Market Share by Region (2015-2020)
- Figure 20. Global Shape Memory Alloys Revenue Market Share by Region in 2019
- Figure 21. Global Shape Memory Alloys Sales Share by Manufacturer in 2019
- Figure 22. The Top 10 and 5 Players Market Share by Shape Memory Alloys Revenue in 2019
- Figure 23. Shape Memory Alloys Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2015 VS 2019
- Figure 24. Global Shape Memory Alloys Sales Market Share by Type (2015-2020)
- Figure 25. Global Shape Memory Alloys Sales Market Share by Type in 2019
- Figure 26. Global Shape Memory Alloys Revenue Market Share by Type (2015-2020)
- Figure 27. Global Shape Memory Alloys Revenue Market Share by Type in 2019
- Figure 28. Global Shape Memory Alloys Market Share by Price Range (2015-2020)
- Figure 29. Global Shape Memory Alloys Sales Market Share by Application (2015-2020)
- Figure 30. Global Shape Memory Alloys Sales Market Share by Application in 2019
- Figure 31. Global Shape Memory Alloys Revenue Market Share by Application

(2015-2020)

Figure 32. Global Shape Memory Alloys Revenue Market Share by Application in 2019

Figure 33. North America Shape Memory Alloys Sales Growth Rate 2015-2020 (MT)

Figure 34. North America Shape Memory Alloys Revenue Growth Rate 2015-2020 (US\$ Million)

Figure 35. North America Shape Memory Alloys Sales Market Share by Country in 2019

Figure 36. North America Shape Memory Alloys Revenue Market Share by Country in 2019

Figure 37. U.S. Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 38. U.S. Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 39. Canada Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 40. Canada Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 41. North America Shape Memory Alloys Market Share by Type in 2019

Figure 42. North America Shape Memory Alloys Market Share by Application in 2019

Figure 43. Europe Shape Memory Alloys Sales Growth Rate 2015-2020 (MT)

Figure 44. Europe Shape Memory Alloys Revenue Growth Rate 2015-2020 (US\$ Million)

Figure 45. Europe Shape Memory Alloys Sales Market Share by Country in 2019

Figure 46. Europe Shape Memory Alloys Revenue Market Share by Country in 2019

Figure 47. Germany Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 48. Germany Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 49. France Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 50. France Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 51. U.K. Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 52. U.K. Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 53. Italy Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 54. Italy Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 55. Russia Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 56. Russia Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 57. Europe Shape Memory Alloys Market Share by Type in 2019

Figure 58. Europe Shape Memory Alloys Market Share by Application in 2019

Figure 59. Asia Pacific Shape Memory Alloys Sales Growth Rate 2015-2020 (MT)

Figure 60. Asia Pacific Shape Memory Alloys Revenue Growth Rate 2015-2020 (US\$ Million)

Figure 61. Asia Pacific Shape Memory Alloys Sales Market Share by Region in 2019

Figure 62. Asia Pacific Shape Memory Alloys Revenue Market Share by Region in 2019

Figure 63. China Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 64. China Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 65. Japan Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 66. Japan Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 67. South Korea Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 68. South Korea Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 69. India Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 70. India Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 71. Australia Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 72. Australia Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 73. Taiwan Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 74. Taiwan Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 75. Indonesia Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 76. Indonesia Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 77. Thailand Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 78. Thailand Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 79. Malaysia Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 80. Malaysia Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 81. Philippines Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 82. Philippines Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 83. Vietnam Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 84. Vietnam Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 85. Asia Pacific Shape Memory Alloys Market Share by Type in 2019

Figure 86. Asia Pacific Shape Memory Alloys Market Share by Application in 2019

Figure 87. Latin America Shape Memory Alloys Sales Growth Rate 2015-2020 (MT)

Figure 88. Latin America Shape Memory Alloys Revenue Growth Rate 2015-2020 (US\$ Million)

Figure 89. Latin America Shape Memory Alloys Sales Market Share by Country in 2019

Figure 90. Latin America Shape Memory Alloys Revenue Market Share by Country in 2019

Figure 91. Mexico Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 92. Mexico Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 93. Brazil Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 94. Brazil Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 95. Argentina Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 96. Argentina Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 97. Latin America Shape Memory Alloys Market Share by Type in 2019

Figure 98. Latin America Shape Memory Alloys Market Share by Application in 2019

Figure 99. Middle East and Africa Shape Memory Alloys Sales Growth Rate 2015-2020 (MT)

Figure 100. Middle East and Africa Shape Memory Alloys Revenue Growth Rate 2015-2020 (US\$ Million)

Figure 101. Middle East and Africa Shape Memory Alloys Sales Market Share by Country in 2019

Figure 102. Middle East and Africa Shape Memory Alloys Revenue Market Share by Country in 2019

Figure 103. Turkey Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 104. Turkey Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 105. Saudi Arabia Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 106. Saudi Arabia Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 107. UAE Shape Memory Alloys Sales Growth Rate (2015-2020) (MT)

Figure 108. UAE Shape Memory Alloys Revenue Growth Rate (2015-2020) (US\$ Million)

Figure 109. Middle East and Africa Shape Memory Alloys Market Share by Type in 2019

Figure 110. Middle East and Africa Shape Memory Alloys Market Share by Application in 2019

Figure 111. Nitinol Devices & Components Total Revenue (US\$ Million): 2019 Compared with 2018

Figure 112. SAES Getters Total Revenue (US\$ Million): 2019 Compared with 2018

Figure 113. G.RAU GmbH & Co. KG Total Revenue (US\$ Million): 2019 Compared with 2018

- Figure 114. ATI Wah-chang Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 115. Johnson Matthey Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 116. Fort Wayne Metals Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 117. Furukawa Electric Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 118. Nippon Steel & Sumitomo Metal Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 119. Nippon Seisen Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 120. Metalwerks PMD Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 121. Ultimate NiTi Technologies Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 122. Dynalloy Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 123. Grikin Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 124. PEIER Tech Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 125. Saite Metal Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 126. Smart Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 127. Baoji Seabird Metal Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 128. GEE Total Revenue (US\$ Million): 2019 Compared with 2018
- Figure 129. North America Shape Memory Alloys Sales Growth Rate Forecast (2021-2026) (MT)
- Figure 130. North America Shape Memory Alloys Revenue Growth Rate Forecast (2021-2026) (US\$ Million)
- Figure 131. Europe Shape Memory Alloys Sales Growth Rate Forecast (2021-2026) (MT)
- Figure 132. Europe Shape Memory Alloys Revenue Growth Rate Forecast (2021-2026) (US\$ Million)
- Figure 133. Asia Pacific Shape Memory Alloys Sales Growth Rate Forecast (2021-2026) (MT)
- Figure 134. Asia Pacific Shape Memory Alloys Revenue Growth Rate Forecast (2021-2026) (US\$ Million)
- Figure 135. Latin America Shape Memory Alloys Sales Growth Rate Forecast (2021-2026) (MT)
- Figure 136. Latin America Shape Memory Alloys Revenue Growth Rate Forecast (2021-2026) (US\$ Million)
- Figure 137. Middle East and Africa Shape Memory Alloys Sales Growth Rate Forecast (2021-2026) (MT)
- Figure 138. Middle East and Africa Shape Memory Alloys Revenue Growth Rate Forecast (2021-2026) (US\$ Million)
- Figure 139. Porter's Five Forces Analysis

Figure 140. Channels of Distribution

Figure 141. Distributors Profiles

Figure 142. Bottom-up and Top-down Approaches for This Report

Figure 143. Data Triangulation

Figure 144. Key Executives Interviewed

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