

Global High-strength Mechanical Flange Nut Market Growth 2026-2032

<https://marketpublishers.com/r/GB3A4C2D9539EN.html>

Date: May 2026

Pages: 110

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

ID: GB3A4C2D9539EN

Abstracts

The global High-strength Mechanical Flange Nut market size is predicted to grow from US\$ 1236 million in 2025 to US\$ 1821 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

A High-Strength Mechanical Flange Nut is a heavy-duty fastener with a built-in washer-like flange that distributes clamping force over a wider area, preventing damage to soft materials and eliminating the need for separate washers. Made from high-strength steel (like Grade 8.8 or higher) for critical applications, these nuts provide superior vibration resistance, durability, and secure connections in demanding industrial, automotive, and construction environments, often featuring serrated undersides for extra grip.

In 2025, global High-strength Mechanical Flange Nut production reached approximately 1152 K MT.

High-strength mechanical flange nuts are driven by industries where joint integrity, vibration resistance, and fast, repeatable assembly are critical. Automotive and commercial vehicle manufacturing remains a major pull, especially in chassis, suspension, drivetrain, and powertrain-adjacent connections where clamp load consistency directly affects safety and durability. Industrial machinery, construction equipment, rail, and general infrastructure projects also support demand because flange nuts provide a built-in bearing surface that can spread load, reduce washer needs, and improve assembly efficiency. As manufacturers push for shorter takt times and higher assembly consistency, pre-integrated fastening solutions like flange nuts become more attractive than multi-part stack-ups.

A key trend is the rising performance requirement for fasteners as systems become

lighter, more compact, and more power-dense. Lightweighting increases sensitivity to joint relaxation and embedding, which boosts the value of high-strength nuts that can maintain preload and resist loosening under dynamic loads. In electrification—such as EV platforms, e-axes, and charging infrastructure—there is growing demand for fasteners that handle thermal cycling, vibration, and mixed-material joints (steel-to-aluminum, coated surfaces, composites). This is pushing wider adoption of controlled-strength classes, better thread quality, and more specialized geometries, including serrated flange designs that add anti-rotation behavior without additional locking hardware.

On the supply side, product differentiation is increasingly tied to surface engineering, quality assurance, and compliance. OEMs and Tier suppliers are demanding tighter dimensional tolerances, improved fatigue performance, and traceability (lot control, PPAP/quality documentation) to reduce field failures and warranty risk. Corrosion-resistance requirements are also rising—driven by harsher duty cycles, longer vehicle warranties, and outdoor exposure—supporting greater use of advanced coatings and plating systems, as well as hydrogen-embrittlement risk management for high-strength parts. At the same time, buyers are optimizing total installed cost, so suppliers that can offer stable supply, automation-friendly packaging, and consistent coating friction behavior (for torque-tension control) are gaining share even in otherwise price-competitive segments.

LP Information, Inc. (LPI) ' newest research report, the “High-strength Mechanical Flange Nut Industry Forecast” looks at past sales and reviews total world High-strength Mechanical Flange Nut sales in 2025, providing a comprehensive analysis by region and market sector of projected High-strength Mechanical Flange Nut sales for 2026 through 2032. With High-strength Mechanical Flange Nut sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-strength Mechanical Flange Nut industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of High-strength Mechanical Flange Nut market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Flat Flange Nut

Serrated Flange Nut

Segmentation by Feature:

Aluminum Alloy

Carbon Steel/Alloy Steel

Other

Segmentation by Channel:

Direct Selling

Distribution

Segmentation by Application:

Excavating Machinery

Lifting Machinery

Earthmoving Machinery

Compacting Machinery

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

STANLEY Engineered Fastening

B&B Group

SFS Group

MacLean-Fogg Component Solutions

Nucor Fastener

PennEngineering

Fontana

LISI AUTOMOTIVE

TR Fastenings

MW Components

BUMAX (Bumax)

NITTO SEIKO

Aoyama Seisakusho

Osaka Forming

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-strength Mechanical Flange Nut market?

What factors are driving High-strength Mechanical Flange Nut market growth, globally and by region?

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

How do High-strength Mechanical Flange Nut market opportunities vary by end market size?

How does High-strength Mechanical Flange Nut break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global High-strength Mechanical Flange Nut Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for High-strength Mechanical Flange Nut by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for High-strength Mechanical Flange Nut by Country/Region, 2021, 2025 & 2032
- 2.2 High-strength Mechanical Flange Nut Segment by Type
 - 2.2.1 Flat Flange Nut
 - 2.2.2 Serrated Flange Nut
 - 2.2.3 High-strength Mechanical Flange Nut Sales by Type
 - 2.2.3.1 Global High-strength Mechanical Flange Nut Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global High-strength Mechanical Flange Nut Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global High-strength Mechanical Flange Nut Sale Price by Type (2021-2026)
- 2.3 High-strength Mechanical Flange Nut Segment by Feature
 - 2.3.1 Aluminum Alloy
 - 2.3.2 Carbon Steel/Alloy Steel
 - 2.3.3 Other
 - 2.3.4 High-strength Mechanical Flange Nut Sales by Feature
 - 2.3.4.1 Global High-strength Mechanical Flange Nut Sales Market Share by Feature (2021-2026)
 - 2.3.4.2 Global High-strength Mechanical Flange Nut Revenue and Market Share by Feature (2021-2026)

2.3.4.3 Global High-strength Mechanical Flange Nut Sale Price by Feature
(2021-2026)

2.4 High-strength Mechanical Flange Nut Segment by Channel

2.4.1 Direct Selling

2.4.2 Distribution

2.4.3 High-strength Mechanical Flange Nut Sales by Channel

2.4.3.1 Global High-strength Mechanical Flange Nut Sales Market Share by Channel
(2021-2026)

2.4.3.2 Global High-strength Mechanical Flange Nut Revenue and Market Share by
Channel (2021-2026)

2.4.3.3 Global High-strength Mechanical Flange Nut Sale Price by Channel
(2021-2026)

2.5 High-strength Mechanical Flange Nut Segment by Application

2.5.1 Excavating Machinery

2.5.2 Lifting Machinery

2.5.3 Earthmoving Machinery

2.5.4 Compacting Machinery

2.5.5 Others

2.5.6 High-strength Mechanical Flange Nut Sales by Application

2.5.6.1 Global High-strength Mechanical Flange Nut Sale Market Share by
Application (2021-2026)

2.5.6.2 Global High-strength Mechanical Flange Nut Revenue and Market Share by
Application (2021-2026)

2.5.6.3 Global High-strength Mechanical Flange Nut Sale Price by Application
(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global High-strength Mechanical Flange Nut Breakdown Data by Company

3.1.1 Global High-strength Mechanical Flange Nut Annual Sales by Company
(2021-2026)

3.1.2 Global High-strength Mechanical Flange Nut Sales Market Share by Company
(2021-2026)

3.2 Global High-strength Mechanical Flange Nut Annual Revenue by Company
(2021-2026)

3.2.1 Global High-strength Mechanical Flange Nut Revenue by Company (2021-2026)

3.2.2 Global High-strength Mechanical Flange Nut Revenue Market Share by
Company (2021-2026)

3.3 Global High-strength Mechanical Flange Nut Sale Price by Company

- 3.4 Key Manufacturers High-strength Mechanical Flange Nut Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers High-strength Mechanical Flange Nut Product Location Distribution
 - 3.4.2 Players High-strength Mechanical Flange Nut Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HIGH-STRENGTH MECHANICAL FLANGE NUT BY GEOGRAPHIC REGION

- 4.1 World Historic High-strength Mechanical Flange Nut Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global High-strength Mechanical Flange Nut Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global High-strength Mechanical Flange Nut Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic High-strength Mechanical Flange Nut Market Size by Country/Region (2021-2026)
 - 4.2.1 Global High-strength Mechanical Flange Nut Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global High-strength Mechanical Flange Nut Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas High-strength Mechanical Flange Nut Sales Growth
- 4.4 APAC High-strength Mechanical Flange Nut Sales Growth
- 4.5 Europe High-strength Mechanical Flange Nut Sales Growth
- 4.6 Middle East & Africa High-strength Mechanical Flange Nut Sales Growth

5 AMERICAS

- 5.1 Americas High-strength Mechanical Flange Nut Sales by Country
 - 5.1.1 Americas High-strength Mechanical Flange Nut Sales by Country (2021-2026)
 - 5.1.2 Americas High-strength Mechanical Flange Nut Revenue by Country (2021-2026)
- 5.2 Americas High-strength Mechanical Flange Nut Sales by Type (2021-2026)
- 5.3 Americas High-strength Mechanical Flange Nut Sales by Application (2021-2026)

- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC High-strength Mechanical Flange Nut Sales by Region
 - 6.1.1 APAC High-strength Mechanical Flange Nut Sales by Region (2021-2026)
 - 6.1.2 APAC High-strength Mechanical Flange Nut Revenue by Region (2021-2026)
- 6.2 APAC High-strength Mechanical Flange Nut Sales by Type (2021-2026)
- 6.3 APAC High-strength Mechanical Flange Nut Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe High-strength Mechanical Flange Nut by Country
 - 7.1.1 Europe High-strength Mechanical Flange Nut Sales by Country (2021-2026)
 - 7.1.2 Europe High-strength Mechanical Flange Nut Revenue by Country (2021-2026)
- 7.2 Europe High-strength Mechanical Flange Nut Sales by Type (2021-2026)
- 7.3 Europe High-strength Mechanical Flange Nut Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa High-strength Mechanical Flange Nut by Country
 - 8.1.1 Middle East & Africa High-strength Mechanical Flange Nut Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa High-strength Mechanical Flange Nut Revenue by Country

(2021-2026)

8.2 Middle East & Africa High-strength Mechanical Flange Nut Sales by Type

(2021-2026)

8.3 Middle East & Africa High-strength Mechanical Flange Nut Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of High-strength Mechanical Flange Nut

10.3 Manufacturing Process Analysis of High-strength Mechanical Flange Nut

10.4 Industry Chain Structure of High-strength Mechanical Flange Nut

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High-strength Mechanical Flange Nut Distributors

11.3 High-strength Mechanical Flange Nut Customer

12 WORLD FORECAST REVIEW FOR HIGH-STRENGTH MECHANICAL FLANGE NUT BY GEOGRAPHIC REGION

12.1 Global High-strength Mechanical Flange Nut Market Size Forecast by Region

12.1.1 Global High-strength Mechanical Flange Nut Forecast by Region (2027-2032)

12.1.2 Global High-strength Mechanical Flange Nut Annual Revenue Forecast by Region (2027-2032)

- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global High-strength Mechanical Flange Nut Forecast by Type (2027-2032)
- 12.7 Global High-strength Mechanical Flange Nut Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 STANLEY Engineered Fastening

- 13.1.1 STANLEY Engineered Fastening Company Information

- 13.1.2 STANLEY Engineered Fastening High-strength Mechanical Flange Nut Product Portfolios and Specifications

- 13.1.3 STANLEY Engineered Fastening High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.1.4 STANLEY Engineered Fastening Main Business Overview

- 13.1.5 STANLEY Engineered Fastening Latest Developments

13.2 B?llhoff Group

- 13.2.1 B?llhoff Group Company Information

- 13.2.2 B?llhoff Group High-strength Mechanical Flange Nut Product Portfolios and Specifications

- 13.2.3 B?llhoff Group High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 B?llhoff Group Main Business Overview

- 13.2.5 B?llhoff Group Latest Developments

13.3 SFS Group

- 13.3.1 SFS Group Company Information

- 13.3.2 SFS Group High-strength Mechanical Flange Nut Product Portfolios and Specifications

- 13.3.3 SFS Group High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 SFS Group Main Business Overview

- 13.3.5 SFS Group Latest Developments

13.4 MacLean-Fogg Component Solutions

- 13.4.1 MacLean-Fogg Component Solutions Company Information

- 13.4.2 MacLean-Fogg Component Solutions High-strength Mechanical Flange Nut Product Portfolios and Specifications

- 13.4.3 MacLean-Fogg Component Solutions High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.4.4 MacLean-Fogg Component Solutions Main Business Overview
- 13.4.5 MacLean-Fogg Component Solutions Latest Developments
- 13.5 Nucor Fastener
 - 13.5.1 Nucor Fastener Company Information
 - 13.5.2 Nucor Fastener High-strength Mechanical Flange Nut Product Portfolios and Specifications
 - 13.5.3 Nucor Fastener High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Nucor Fastener Main Business Overview
 - 13.5.5 Nucor Fastener Latest Developments
- 13.6 PennEngineering
 - 13.6.1 PennEngineering Company Information
 - 13.6.2 PennEngineering High-strength Mechanical Flange Nut Product Portfolios and Specifications
 - 13.6.3 PennEngineering High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 PennEngineering Main Business Overview
 - 13.6.5 PennEngineering Latest Developments
- 13.7 Fontana
 - 13.7.1 Fontana Company Information
 - 13.7.2 Fontana High-strength Mechanical Flange Nut Product Portfolios and Specifications
 - 13.7.3 Fontana High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Fontana Main Business Overview
 - 13.7.5 Fontana Latest Developments
- 13.8 LISI AUTOMOTIVE
 - 13.8.1 LISI AUTOMOTIVE Company Information
 - 13.8.2 LISI AUTOMOTIVE High-strength Mechanical Flange Nut Product Portfolios and Specifications
 - 13.8.3 LISI AUTOMOTIVE High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 LISI AUTOMOTIVE Main Business Overview
 - 13.8.5 LISI AUTOMOTIVE Latest Developments
- 13.9 TR Fastenings
 - 13.9.1 TR Fastenings Company Information
 - 13.9.2 TR Fastenings High-strength Mechanical Flange Nut Product Portfolios and Specifications
 - 13.9.3 TR Fastenings High-strength Mechanical Flange Nut Sales, Revenue, Price

and Gross Margin (2021-2026)

13.9.4 TR Fastenings Main Business Overview

13.9.5 TR Fastenings Latest Developments

13.10 MW Components

13.10.1 MW Components Company Information

13.10.2 MW Components High-strength Mechanical Flange Nut Product Portfolios and Specifications

13.10.3 MW Components High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 MW Components Main Business Overview

13.10.5 MW Components Latest Developments

13.11 BUMAX (Bumax)

13.11.1 BUMAX (Bumax) Company Information

13.11.2 BUMAX (Bumax) High-strength Mechanical Flange Nut Product Portfolios and Specifications

13.11.3 BUMAX (Bumax) High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 BUMAX (Bumax) Main Business Overview

13.11.5 BUMAX (Bumax) Latest Developments

13.12 NITTO SEIKO

13.12.1 NITTO SEIKO Company Information

13.12.2 NITTO SEIKO High-strength Mechanical Flange Nut Product Portfolios and Specifications

13.12.3 NITTO SEIKO High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 NITTO SEIKO Main Business Overview

13.12.5 NITTO SEIKO Latest Developments

13.13 Aoyama Seisakusho

13.13.1 Aoyama Seisakusho Company Information

13.13.2 Aoyama Seisakusho High-strength Mechanical Flange Nut Product Portfolios and Specifications

13.13.3 Aoyama Seisakusho High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Aoyama Seisakusho Main Business Overview

13.13.5 Aoyama Seisakusho Latest Developments

13.14 Osaka Forming

13.14.1 Osaka Forming Company Information

13.14.2 Osaka Forming High-strength Mechanical Flange Nut Product Portfolios and Specifications

13.14.3 Osaka Forming High-strength Mechanical Flange Nut Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Osaka Forming Main Business Overview

13.14.5 Osaka Forming Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. High-strength Mechanical Flange Nut Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High-strength Mechanical Flange Nut Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Flat Flange Nut

Table 4. Major Players of Serrated Flange Nut

Table 5. Global High-strength Mechanical Flange Nut Sales by Type (2021-2026) & (ton)

Table 6. Global High-strength Mechanical Flange Nut Sales Market Share by Type (2021-2026)

Table 7. Global High-strength Mechanical Flange Nut Revenue by Type (2021-2026) & (\$ million)

Table 8. Global High-strength Mechanical Flange Nut Revenue Market Share by Type (2021-2026)

Table 9. Global High-strength Mechanical Flange Nut Sale Price by Type (2021-2026) & (USD/TON)

Table 10. Major Players of Aluminum Alloy

Table 11. Major Players of Carbon Steel/Alloy Steel

Table 12. Major Players of Other

Table 13. Global High-strength Mechanical Flange Nut Sales by Feature (2021-2026) & (ton)

Table 14. Global High-strength Mechanical Flange Nut Sales Market Share by Feature (2021-2026)

Table 15. Global High-strength Mechanical Flange Nut Revenue by Feature (2021-2026) & (\$ million)

Table 16. Global High-strength Mechanical Flange Nut Revenue Market Share by Feature (2021-2026)

Table 17. Global High-strength Mechanical Flange Nut Sale Price by Feature (2021-2026) & (USD/TON)

Table 18. Major Players of Direct Selling

Table 19. Major Players of Distribution

Table 20. Global High-strength Mechanical Flange Nut Sales by Channel (2021-2026) & (ton)

Table 21. Global High-strength Mechanical Flange Nut Sales Market Share by Channel (2021-2026)

- Table 22. Global High-strength Mechanical Flange Nut Revenue by Channel (2021-2026) & (\$ million)
- Table 23. Global High-strength Mechanical Flange Nut Revenue Market Share by Channel (2021-2026)
- Table 24. Global High-strength Mechanical Flange Nut Sale Price by Channel (2021-2026) & (USD/TON)
- Table 25. Global High-strength Mechanical Flange Nut Sale by Application (2021-2026) & (ton)
- Table 26. Global High-strength Mechanical Flange Nut Sale Market Share by Application (2021-2026)
- Table 27. Global High-strength Mechanical Flange Nut Revenue by Application (2021-2026) & (\$ million)
- Table 28. Global High-strength Mechanical Flange Nut Revenue Market Share by Application (2021-2026)
- Table 29. Global High-strength Mechanical Flange Nut Sale Price by Application (2021-2026) & (USD/TON)
- Table 30. Global High-strength Mechanical Flange Nut Sales by Company (2021-2026) & (ton)
- Table 31. Global High-strength Mechanical Flange Nut Sales Market Share by Company (2021-2026)
- Table 32. Global High-strength Mechanical Flange Nut Revenue by Company (2021-2026) & (\$ millions)
- Table 33. Global High-strength Mechanical Flange Nut Revenue Market Share by Company (2021-2026)
- Table 34. Global High-strength Mechanical Flange Nut Sale Price by Company (2021-2026) & (USD/TON)
- Table 35. Key Manufacturers High-strength Mechanical Flange Nut Producing Area Distribution and Sales Area
- Table 36. Players High-strength Mechanical Flange Nut Products Offered
- Table 37. High-strength Mechanical Flange Nut Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 38. New Products and Potential Entrants
- Table 39. Market M&A Activity & Strategy
- Table 40. Global High-strength Mechanical Flange Nut Sales by Geographic Region (2021-2026) & (ton)
- Table 41. Global High-strength Mechanical Flange Nut Sales Market Share Geographic Region (2021-2026)
- Table 42. Global High-strength Mechanical Flange Nut Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global High-strength Mechanical Flange Nut Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global High-strength Mechanical Flange Nut Sales by Country/Region (2021-2026) & (ton)

Table 45. Global High-strength Mechanical Flange Nut Sales Market Share by Country/Region (2021-2026)

Table 46. Global High-strength Mechanical Flange Nut Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global High-strength Mechanical Flange Nut Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas High-strength Mechanical Flange Nut Sales by Country (2021-2026) & (ton)

Table 49. Americas High-strength Mechanical Flange Nut Sales Market Share by Country (2021-2026)

Table 50. Americas High-strength Mechanical Flange Nut Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas High-strength Mechanical Flange Nut Sales by Type (2021-2026) & (ton)

Table 52. Americas High-strength Mechanical Flange Nut Sales by Application (2021-2026) & (ton)

Table 53. APAC High-strength Mechanical Flange Nut Sales by Region (2021-2026) & (ton)

Table 54. APAC High-strength Mechanical Flange Nut Sales Market Share by Region (2021-2026)

Table 55. APAC High-strength Mechanical Flange Nut Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC High-strength Mechanical Flange Nut Sales by Type (2021-2026) & (ton)

Table 57. APAC High-strength Mechanical Flange Nut Sales by Application (2021-2026) & (ton)

Table 58. Europe High-strength Mechanical Flange Nut Sales by Country (2021-2026) & (ton)

Table 59. Europe High-strength Mechanical Flange Nut Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe High-strength Mechanical Flange Nut Sales by Type (2021-2026) & (ton)

Table 61. Europe High-strength Mechanical Flange Nut Sales by Application (2021-2026) & (ton)

Table 62. Middle East & Africa High-strength Mechanical Flange Nut Sales by Country

(2021-2026) & (ton)

Table 63. Middle East & Africa High-strength Mechanical Flange Nut Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa High-strength Mechanical Flange Nut Sales by Type (2021-2026) & (ton)

Table 65. Middle East & Africa High-strength Mechanical Flange Nut Sales by Application (2021-2026) & (ton)

Table 66. Key Market Drivers & Growth Opportunities of High-strength Mechanical Flange Nut

Table 67. Key Market Challenges & Risks of High-strength Mechanical Flange Nut

Table 68. Key Industry Trends of High-strength Mechanical Flange Nut

Table 69. High-strength Mechanical Flange Nut Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. High-strength Mechanical Flange Nut Distributors List

Table 72. High-strength Mechanical Flange Nut Customer List

Table 73. Global High-strength Mechanical Flange Nut Sales Forecast by Region (2027-2032) & (ton)

Table 74. Global High-strength Mechanical Flange Nut Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas High-strength Mechanical Flange Nut Sales Forecast by Country (2027-2032) & (ton)

Table 76. Americas High-strength Mechanical Flange Nut Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC High-strength Mechanical Flange Nut Sales Forecast by Region (2027-2032) & (ton)

Table 78. APAC High-strength Mechanical Flange Nut Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe High-strength Mechanical Flange Nut Sales Forecast by Country (2027-2032) & (ton)

Table 80. Europe High-strength Mechanical Flange Nut Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa High-strength Mechanical Flange Nut Sales Forecast by Country (2027-2032) & (ton)

Table 82. Middle East & Africa High-strength Mechanical Flange Nut Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global High-strength Mechanical Flange Nut Sales Forecast by Type (2027-2032) & (ton)

Table 84. Global High-strength Mechanical Flange Nut Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global High-strength Mechanical Flange Nut Sales Forecast by Application (2027-2032) & (ton)

Table 86. Global High-strength Mechanical Flange Nut Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. STANLEY Engineered Fastening Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 88. STANLEY Engineered Fastening High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 89. STANLEY Engineered Fastening High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 90. STANLEY Engineered Fastening Main Business

Table 91. STANLEY Engineered Fastening Latest Developments

Table 92. B?llhoff Group Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 93. B?llhoff Group High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 94. B?llhoff Group High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 95. B?llhoff Group Main Business

Table 96. B?llhoff Group Latest Developments

Table 97. SFS Group Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 98. SFS Group High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 99. SFS Group High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 100. SFS Group Main Business

Table 101. SFS Group Latest Developments

Table 102. MacLean-Fogg Component Solutions Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 103. MacLean-Fogg Component Solutions High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 104. MacLean-Fogg Component Solutions High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 105. MacLean-Fogg Component Solutions Main Business

Table 106. MacLean-Fogg Component Solutions Latest Developments

Table 107. Nucor Fastener Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 108. Nucor Fastener High-strength Mechanical Flange Nut Product Portfolios and

Specifications

Table 109. Nucor Fastener High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 110. Nucor Fastener Main Business

Table 111. Nucor Fastener Latest Developments

Table 112. PennEngineering Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 113. PennEngineering High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 114. PennEngineering High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 115. PennEngineering Main Business

Table 116. PennEngineering Latest Developments

Table 117. Fontana Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 118. Fontana High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 119. Fontana High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 120. Fontana Main Business

Table 121. Fontana Latest Developments

Table 122. LISI AUTOMOTIVE Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 123. LISI AUTOMOTIVE High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 124. LISI AUTOMOTIVE High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 125. LISI AUTOMOTIVE Main Business

Table 126. LISI AUTOMOTIVE Latest Developments

Table 127. TR Fastenings Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 128. TR Fastenings High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 129. TR Fastenings High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 130. TR Fastenings Main Business

Table 131. TR Fastenings Latest Developments

Table 132. MW Components Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 133. MW Components High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 134. MW Components High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 135. MW Components Main Business

Table 136. MW Components Latest Developments

Table 137. BUMAX (Bumax) Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 138. BUMAX (Bumax) High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 139. BUMAX (Bumax) High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 140. BUMAX (Bumax) Main Business

Table 141. BUMAX (Bumax) Latest Developments

Table 142. NITTO SEIKO Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 143. NITTO SEIKO High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 144. NITTO SEIKO High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 145. NITTO SEIKO Main Business

Table 146. NITTO SEIKO Latest Developments

Table 147. Aoyama Seisakusho Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 148. Aoyama Seisakusho High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 149. Aoyama Seisakusho High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 150. Aoyama Seisakusho Main Business

Table 151. Aoyama Seisakusho Latest Developments

Table 152. Osaka Forming Basic Information, High-strength Mechanical Flange Nut Manufacturing Base, Sales Area and Its Competitors

Table 153. Osaka Forming High-strength Mechanical Flange Nut Product Portfolios and Specifications

Table 154. Osaka Forming High-strength Mechanical Flange Nut Sales (ton), Revenue (\$ Million), Price (USD/TON) and Gross Margin (2021-2026)

Table 155. Osaka Forming Main Business

Table 156. Osaka Forming Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High-strength Mechanical Flange Nut
- Figure 2. High-strength Mechanical Flange Nut Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High-strength Mechanical Flange Nut Sales Growth Rate 2021-2032 (ton)
- Figure 7. Global High-strength Mechanical Flange Nut Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High-strength Mechanical Flange Nut Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High-strength Mechanical Flange Nut Sales Market Share by Country/Region (2025)
- Figure 10. High-strength Mechanical Flange Nut Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Flat Flange Nut
- Figure 12. Product Picture of Serrated Flange Nut
- Figure 13. Global High-strength Mechanical Flange Nut Sales Market Share by Type in 2026
- Figure 14. Global High-strength Mechanical Flange Nut Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Aluminum Alloy
- Figure 16. Product Picture of Carbon Steel/Alloy Steel
- Figure 17. Product Picture of Other
- Figure 18. Global High-strength Mechanical Flange Nut Sales Market Share by Feature in 2026
- Figure 19. Global High-strength Mechanical Flange Nut Revenue Market Share by Feature (2021-2026)
- Figure 20. Product Picture of Direct Selling
- Figure 21. Product Picture of Distribution
- Figure 22. Global High-strength Mechanical Flange Nut Sales Market Share by Channel in 2026
- Figure 23. Global High-strength Mechanical Flange Nut Revenue Market Share by Channel (2021-2026)
- Figure 24. High-strength Mechanical Flange Nut Consumed in Excavating Machinery

Figure 25. Global High-strength Mechanical Flange Nut Market: Excavating Machinery (2021-2026) & (ton)

Figure 26. High-strength Mechanical Flange Nut Consumed in Lifting Machinery

Figure 27. Global High-strength Mechanical Flange Nut Market: Lifting Machinery (2021-2026) & (ton)

Figure 28. High-strength Mechanical Flange Nut Consumed in Earthmoving Machinery

Figure 29. Global High-strength Mechanical Flange Nut Market: Earthmoving Machinery (2021-2026) & (ton)

Figure 30. High-strength Mechanical Flange Nut Consumed in Compacting Machinery

Figure 31. Global High-strength Mechanical Flange Nut Market: Compacting Machinery (2021-2026) & (ton)

Figure 32. High-strength Mechanical Flange Nut Consumed in Others

Figure 33. Global High-strength Mechanical Flange Nut Market: Others (2021-2026) & (ton)

Figure 34. Global High-strength Mechanical Flange Nut Sale Market Share by Application (2025)

Figure 35. Global High-strength Mechanical Flange Nut Revenue Market Share by Application in 2026

Figure 36. High-strength Mechanical Flange Nut Sales by Company in 2026 (ton)

Figure 37. Global High-strength Mechanical Flange Nut Sales Market Share by Company in 2026

Figure 38. High-strength Mechanical Flange Nut Revenue by Company in 2026 (\$ millions)

Figure 39. Global High-strength Mechanical Flange Nut Revenue Market Share by Company in 2026

Figure 40. Global High-strength Mechanical Flange Nut Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global High-strength Mechanical Flange Nut Revenue Market Share by Geographic Region in 2026

Figure 42. Americas High-strength Mechanical Flange Nut Sales 2021-2026 (ton)

Figure 43. Americas High-strength Mechanical Flange Nut Revenue 2021-2026 (\$ millions)

Figure 44. APAC High-strength Mechanical Flange Nut Sales 2021-2026 (ton)

Figure 45. APAC High-strength Mechanical Flange Nut Revenue 2021-2026 (\$ millions)

Figure 46. Europe High-strength Mechanical Flange Nut Sales 2021-2026 (ton)

Figure 47. Europe High-strength Mechanical Flange Nut Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa High-strength Mechanical Flange Nut Sales 2021-2026 (ton)

Figure 49. Middle East & Africa High-strength Mechanical Flange Nut Revenue 2021-2026 (\$ millions)

Figure 50. Americas High-strength Mechanical Flange Nut Sales Market Share by Country in 2026

Figure 51. Americas High-strength Mechanical Flange Nut Revenue Market Share by Country (2021-2026)

Figure 52. Americas High-strength Mechanical Flange Nut Sales Market Share by Type (2021-2026)

Figure 53. Americas High-strength Mechanical Flange Nut Sales Market Share by Application (2021-2026)

Figure 54. United States High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC High-strength Mechanical Flange Nut Sales Market Share by Region in 2026

Figure 59. APAC High-strength Mechanical Flange Nut Revenue Market Share by Region (2021-2026)

Figure 60. APAC High-strength Mechanical Flange Nut Sales Market Share by Type (2021-2026)

Figure 61. APAC High-strength Mechanical Flange Nut Sales Market Share by Application (2021-2026)

Figure 62. China High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 66. India High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan High-strength Mechanical Flange Nut Revenue Growth

2021-2026 (\$ millions)

Figure 69. Europe High-strength Mechanical Flange Nut Sales Market Share by Country in 2026

Figure 70. Europe High-strength Mechanical Flange Nut Revenue Market Share by Country (2021-2026)

Figure 71. Europe High-strength Mechanical Flange Nut Sales Market Share by Type (2021-2026)

Figure 72. Europe High-strength Mechanical Flange Nut Sales Market Share by Application (2021-2026)

Figure 73. Germany High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 74. France High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa High-strength Mechanical Flange Nut Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa High-strength Mechanical Flange Nut Sales Market Share by Type (2021-2026)

Figure 80. Middle East & Africa High-strength Mechanical Flange Nut Sales Market Share by Application (2021-2026)

Figure 81. Egypt High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries High-strength Mechanical Flange Nut Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of High-strength Mechanical Flange Nut in 2026

Figure 87. Manufacturing Process Analysis of High-strength Mechanical Flange Nut

Figure 88. Industry Chain Structure of High-strength Mechanical Flange Nut

Figure 89. Channels of Distribution

Figure 90. Global High-strength Mechanical Flange Nut Sales Market Forecast by Region (2027-2032)

Figure 91. Global High-strength Mechanical Flange Nut Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global High-strength Mechanical Flange Nut Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global High-strength Mechanical Flange Nut Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global High-strength Mechanical Flange Nut Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global High-strength Mechanical Flange Nut Revenue Market Share Forecast by Application (2027-2032)

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