

Global Friction Welding Market Research Report 2025(Status and Outlook)

<https://marketpublishers.com/r/G5F6E0EB3AF8EN.html>

Date: August 2025

Pages: 170

Price: US\$ 3,200.00 (Single User License)

ID: G5F6E0EB3AF8EN

Abstracts

Friction welding (FRW) is a solid-state welding process that generates heat through mechanical friction between workpieces in relative motion to one another. Because no melting occurs, friction welding is not a fusion welding process in the traditional sense, but more of a forge welding technique.

The global Friction Welding market size was estimated at USD 756.04 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 0.05% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Friction Welding market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Friction Welding market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Friction Welding market.

Global Friction Welding Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

KUKA
Izumi Machine
Branson (Emerson)
ESAB
MTI
Grenzebach Maschinenbau GmbH
Nova-Tech Engineering
Bielomatik
Beijing FSW
FOOKE GmbH
PaR Systems
Crest Group
Symacon
General Tool Company
Dukane
ETA
Sooncable
Sakae Industries

Nitto Seiki
Gatwick
Keber
U-Jin Tech

Market Segmentation (by Type)

Linear Friction Welding
Rotary Friction Welding
Stir Friction Welding

Market Segmentation (by Application)

Aerospace
Automotive
Shipbuilding
Railways
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Friction Welding Market

Overview of the regional outlook of the Friction Welding Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Friction Welding Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the

industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Friction Welding, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your

marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales

team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Friction Welding

1.2 Key Market Segments

1.2.1 Friction Welding Segment by Type

1.2.2 Friction Welding Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 FRICTION WELDING MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Friction Welding Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Friction Welding Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 FRICTION WELDING MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Friction Welding Product Life Cycle

3.3 Global Friction Welding Sales by Manufacturers (2020-2025)

3.4 Global Friction Welding Revenue Market Share by Manufacturers (2020-2025)

3.5 Friction Welding Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Friction Welding Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Friction Welding Market Competitive Situation and Trends

3.8.1 Friction Welding Market Concentration Rate

3.8.2 Global 5 and 10 Largest Friction Welding Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 FRICTION WELDING INDUSTRY CHAIN ANALYSIS

- 4.1 Friction Welding Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF FRICTION WELDING MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Friction Welding Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Friction Welding Market
- 5.7 ESG Ratings of Leading Companies

6 FRICTION WELDING MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Friction Welding Sales Market Share by Type (2020-2025)
- 6.3 Global Friction Welding Market Size Market Share by Type (2020-2025)
- 6.4 Global Friction Welding Price by Type (2020-2025)

7 FRICTION WELDING MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Friction Welding Market Sales by Application (2020-2025)
- 7.3 Global Friction Welding Market Size (M USD) by Application (2020-2025)

7.4 Global Friction Welding Sales Growth Rate by Application (2020-2025)

8 FRICTION WELDING MARKET SALES BY REGION

8.1 Global Friction Welding Sales by Region

8.1.1 Global Friction Welding Sales by Region

8.1.2 Global Friction Welding Sales Market Share by Region

8.2 Global Friction Welding Market Size by Region

8.2.1 Global Friction Welding Market Size by Region

8.2.2 Global Friction Welding Market Size Market Share by Region

8.3 North America

8.3.1 North America Friction Welding Sales by Country

8.3.2 North America Friction Welding Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Friction Welding Sales by Country

8.4.2 Europe Friction Welding Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Friction Welding Sales by Region

8.5.2 Asia Pacific Friction Welding Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Friction Welding Sales by Country

8.6.2 South America Friction Welding Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Friction Welding Sales by Region
- 8.7.2 Middle East and Africa Friction Welding Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 FRICTION WELDING MARKET PRODUCTION BY REGION

- 9.1 Global Production of Friction Welding by Region(2020-2025)
- 9.2 Global Friction Welding Revenue Market Share by Region (2020-2025)
- 9.3 Global Friction Welding Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Friction Welding Production
 - 9.4.1 North America Friction Welding Production Growth Rate (2020-2025)
 - 9.4.2 North America Friction Welding Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Friction Welding Production
 - 9.5.1 Europe Friction Welding Production Growth Rate (2020-2025)
 - 9.5.2 Europe Friction Welding Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Friction Welding Production (2020-2025)
 - 9.6.1 Japan Friction Welding Production Growth Rate (2020-2025)
 - 9.6.2 Japan Friction Welding Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Friction Welding Production (2020-2025)
 - 9.7.1 China Friction Welding Production Growth Rate (2020-2025)
 - 9.7.2 China Friction Welding Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 KUKA
 - 10.1.1 KUKA Basic Information
 - 10.1.2 KUKA Friction Welding Product Overview
 - 10.1.3 KUKA Friction Welding Product Market Performance
 - 10.1.4 KUKA Business Overview
 - 10.1.5 KUKA SWOT Analysis
 - 10.1.6 KUKA Recent Developments

10.2 Izumi Machine

10.2.1 Izumi Machine Basic Information

10.2.2 Izumi Machine Friction Welding Product Overview

10.2.3 Izumi Machine Friction Welding Product Market Performance

10.2.4 Izumi Machine Business Overview

10.2.5 Izumi Machine SWOT Analysis

10.2.6 Izumi Machine Recent Developments

10.3 Branson (Emerson)

10.3.1 Branson (Emerson) Basic Information

10.3.2 Branson (Emerson) Friction Welding Product Overview

10.3.3 Branson (Emerson) Friction Welding Product Market Performance

10.3.4 Branson (Emerson) Business Overview

10.3.5 Branson (Emerson) SWOT Analysis

10.3.6 Branson (Emerson) Recent Developments

10.4 ESAB

10.4.1 ESAB Basic Information

10.4.2 ESAB Friction Welding Product Overview

10.4.3 ESAB Friction Welding Product Market Performance

10.4.4 ESAB Business Overview

10.4.5 ESAB Recent Developments

10.5 MTI

10.5.1 MTI Basic Information

10.5.2 MTI Friction Welding Product Overview

10.5.3 MTI Friction Welding Product Market Performance

10.5.4 MTI Business Overview

10.5.5 MTI Recent Developments

10.6 Grenzebach Maschinenbau GmbH

10.6.1 Grenzebach Maschinenbau GmbH Basic Information

10.6.2 Grenzebach Maschinenbau GmbH Friction Welding Product Overview

10.6.3 Grenzebach Maschinenbau GmbH Friction Welding Product Market Performance

10.6.4 Grenzebach Maschinenbau GmbH Business Overview

10.6.5 Grenzebach Maschinenbau GmbH Recent Developments

10.7 Nova-Tech Engineering

10.7.1 Nova-Tech Engineering Basic Information

10.7.2 Nova-Tech Engineering Friction Welding Product Overview

10.7.3 Nova-Tech Engineering Friction Welding Product Market Performance

10.7.4 Nova-Tech Engineering Business Overview

10.7.5 Nova-Tech Engineering Recent Developments

10.8 Bielomatik

10.8.1 Bielomatik Basic Information

10.8.2 Bielomatik Friction Welding Product Overview

10.8.3 Bielomatik Friction Welding Product Market Performance

10.8.4 Bielomatik Business Overview

10.8.5 Bielomatik Recent Developments

10.9 Beijing FSW

10.9.1 Beijing FSW Basic Information

10.9.2 Beijing FSW Friction Welding Product Overview

10.9.3 Beijing FSW Friction Welding Product Market Performance

10.9.4 Beijing FSW Business Overview

10.9.5 Beijing FSW Recent Developments

10.10 FOOKE GmbH

10.10.1 FOOKE GmbH Basic Information

10.10.2 FOOKE GmbH Friction Welding Product Overview

10.10.3 FOOKE GmbH Friction Welding Product Market Performance

10.10.4 FOOKE GmbH Business Overview

10.10.5 FOOKE GmbH Recent Developments

10.11 PaR Systems

10.11.1 PaR Systems Basic Information

10.11.2 PaR Systems Friction Welding Product Overview

10.11.3 PaR Systems Friction Welding Product Market Performance

10.11.4 PaR Systems Business Overview

10.11.5 PaR Systems Recent Developments

10.12 Crest Group

10.12.1 Crest Group Basic Information

10.12.2 Crest Group Friction Welding Product Overview

10.12.3 Crest Group Friction Welding Product Market Performance

10.12.4 Crest Group Business Overview

10.12.5 Crest Group Recent Developments

10.13 Symacon

10.13.1 Symacon Basic Information

10.13.2 Symacon Friction Welding Product Overview

10.13.3 Symacon Friction Welding Product Market Performance

10.13.4 Symacon Business Overview

10.13.5 Symacon Recent Developments

10.14 General Tool Company

10.14.1 General Tool Company Basic Information

10.14.2 General Tool Company Friction Welding Product Overview

- 10.14.3 General Tool Company Friction Welding Product Market Performance
- 10.14.4 General Tool Company Business Overview
- 10.14.5 General Tool Company Recent Developments
- 10.15 Dukane
 - 10.15.1 Dukane Basic Information
 - 10.15.2 Dukane Friction Welding Product Overview
 - 10.15.3 Dukane Friction Welding Product Market Performance
 - 10.15.4 Dukane Business Overview
 - 10.15.5 Dukane Recent Developments
- 10.16 ETA
 - 10.16.1 ETA Basic Information
 - 10.16.2 ETA Friction Welding Product Overview
 - 10.16.3 ETA Friction Welding Product Market Performance
 - 10.16.4 ETA Business Overview
 - 10.16.5 ETA Recent Developments
- 10.17 Sooncable
 - 10.17.1 Sooncable Basic Information
 - 10.17.2 Sooncable Friction Welding Product Overview
 - 10.17.3 Sooncable Friction Welding Product Market Performance
 - 10.17.4 Sooncable Business Overview
 - 10.17.5 Sooncable Recent Developments
- 10.18 Sakae Industries
 - 10.18.1 Sakae Industries Basic Information
 - 10.18.2 Sakae Industries Friction Welding Product Overview
 - 10.18.3 Sakae Industries Friction Welding Product Market Performance
 - 10.18.4 Sakae Industries Business Overview
 - 10.18.5 Sakae Industries Recent Developments
- 10.19 Nitto Seiki
 - 10.19.1 Nitto Seiki Basic Information
 - 10.19.2 Nitto Seiki Friction Welding Product Overview
 - 10.19.3 Nitto Seiki Friction Welding Product Market Performance
 - 10.19.4 Nitto Seiki Business Overview
 - 10.19.5 Nitto Seiki Recent Developments
- 10.20 Gatwick
 - 10.20.1 Gatwick Basic Information
 - 10.20.2 Gatwick Friction Welding Product Overview
 - 10.20.3 Gatwick Friction Welding Product Market Performance
 - 10.20.4 Gatwick Business Overview
 - 10.20.5 Gatwick Recent Developments

10.21 Keber

- 10.21.1 Keber Basic Information
- 10.21.2 Keber Friction Welding Product Overview
- 10.21.3 Keber Friction Welding Product Market Performance
- 10.21.4 Keber Business Overview
- 10.21.5 Keber Recent Developments

10.22 U-Jin Tech

- 10.22.1 U-Jin Tech Basic Information
- 10.22.2 U-Jin Tech Friction Welding Product Overview
- 10.22.3 U-Jin Tech Friction Welding Product Market Performance
- 10.22.4 U-Jin Tech Business Overview
- 10.22.5 U-Jin Tech Recent Developments

11 FRICTION WELDING MARKET FORECAST BY REGION

11.1 Global Friction Welding Market Size Forecast

11.2 Global Friction Welding Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Friction Welding Market Size Forecast by Country
- 11.2.3 Asia Pacific Friction Welding Market Size Forecast by Region
- 11.2.4 South America Friction Welding Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Friction Welding by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Friction Welding Market Forecast by Type (2026-2033)

- 12.1.1 Global Forecasted Sales of Friction Welding by Type (2026-2033)
- 12.1.2 Global Friction Welding Market Size Forecast by Type (2026-2033)
- 12.1.3 Global Forecasted Price of Friction Welding by Type (2026-2033)

12.2 Global Friction Welding Market Forecast by Application (2026-2033)

- 12.2.1 Global Friction Welding Sales (K Units) Forecast by Application
- 12.2.2 Global Friction Welding Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Market Size (M USD) Segment Executive Summary
Table 4. Friction Welding Market Size Comparison by Region (M USD)
Table 5. Global Friction Welding Sales (K Units) by Manufacturers (2020-2025)
Table 6. Global Friction Welding Sales Market Share by Manufacturers (2020-2025)
Table 7. Global Friction Welding Revenue (M USD) by Manufacturers (2020-2025)
Table 8. Global Friction Welding Revenue Share by Manufacturers (2020-2025)
Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Friction Welding as of 2024)
Table 10. Global Market Friction Welding Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 11. Manufacturers? Manufacturing Sites, Areas Served
Table 12. Manufacturers? Product Type
Table 13. Global Friction Welding Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 14. Mergers & Acquisitions, Expansion Plans
Table 15. Market Overview of Key Raw Materials
Table 16. Midstream Market Analysis
Table 17. Downstream Customer Analysis
Table 18. Key Development Trends
Table 19. Driving Factors
Table 20. Friction Welding Market Challenges
Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 25. Global Friction Welding Sales by Type (K Units)
Table 26. Global Friction Welding Market Size by Type (M USD)
Table 27. Global Friction Welding Sales (K Units) by Type (2020-2025)
Table 28. Global Friction Welding Sales Market Share by Type (2020-2025)
Table 29. Global Friction Welding Market Size (M USD) by Type (2020-2025)
Table 30. Global Friction Welding Market Size Share by Type (2020-2025)
Table 31. Global Friction Welding Price (USD/Unit) by Type (2020-2025)

Table 32. Global Friction Welding Sales (K Units) by Application
Table 33. Global Friction Welding Market Size by Application
Table 34. Global Friction Welding Sales by Application (2020-2025) & (K Units)
Table 35. Global Friction Welding Sales Market Share by Application (2020-2025)
Table 36. Global Friction Welding Market Size by Application (2020-2025) & (M USD)
Table 37. Global Friction Welding Market Share by Application (2020-2025)
Table 38. Global Friction Welding Sales Growth Rate by Application (2020-2025)
Table 39. Global Friction Welding Sales by Region (2020-2025) & (K Units)
Table 40. Global Friction Welding Sales Market Share by Region (2020-2025)
Table 41. Global Friction Welding Market Size by Region (2020-2025) & (M USD)
Table 42. Global Friction Welding Market Size Market Share by Region (2020-2025)
Table 43. North America Friction Welding Sales by Country (2020-2025) & (K Units)
Table 44. North America Friction Welding Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Friction Welding Sales by Country (2020-2025) & (K Units)
Table 46. Europe Friction Welding Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Friction Welding Sales by Region (2020-2025) & (K Units)
Table 48. Asia Pacific Friction Welding Market Size by Region (2020-2025) & (M USD)
Table 49. South America Friction Welding Sales by Country (2020-2025) & (K Units)
Table 50. South America Friction Welding Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Friction Welding Sales by Region (2020-2025) & (K Units)
Table 52. Middle East and Africa Friction Welding Market Size by Region (2020-2025) & (M USD)
Table 53. Global Friction Welding Production (K Units) by Region(2020-2025)
Table 54. Global Friction Welding Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Friction Welding Revenue Market Share by Region (2020-2025)
Table 56. Global Friction Welding Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 57. North America Friction Welding Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 58. Europe Friction Welding Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 59. Japan Friction Welding Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 60. China Friction Welding Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 61. KUKA Basic Information

Table 62. KUKA Friction Welding Product Overview
Table 63. KUKA Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 64. KUKA Business Overview
Table 65. KUKA SWOT Analysis
Table 66. KUKA Recent Developments
Table 67. Izumi Machine Basic Information
Table 68. Izumi Machine Friction Welding Product Overview
Table 69. Izumi Machine Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 70. Izumi Machine Business Overview
Table 71. Izumi Machine SWOT Analysis
Table 72. Izumi Machine Recent Developments
Table 73. Branson (Emerson) Basic Information
Table 74. Branson (Emerson) Friction Welding Product Overview
Table 75. Branson (Emerson) Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 76. Branson (Emerson) Business Overview
Table 77. Branson (Emerson) SWOT Analysis
Table 78. Branson (Emerson) Recent Developments
Table 79. ESAB Basic Information
Table 80. ESAB Friction Welding Product Overview
Table 81. ESAB Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 82. ESAB Business Overview
Table 83. ESAB Recent Developments
Table 84. MTI Basic Information
Table 85. MTI Friction Welding Product Overview
Table 86. MTI Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 87. MTI Business Overview
Table 88. MTI Recent Developments
Table 89. Grenzebach Maschinenbau GmbH Basic Information
Table 90. Grenzebach Maschinenbau GmbH Friction Welding Product Overview
Table 91. Grenzebach Maschinenbau GmbH Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 92. Grenzebach Maschinenbau GmbH Business Overview
Table 93. Grenzebach Maschinenbau GmbH Recent Developments
Table 94. Nova-Tech Engineering Basic Information

Table 95. Nova-Tech Engineering Friction Welding Product Overview
Table 96. Nova-Tech Engineering Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. Nova-Tech Engineering Business Overview
Table 98. Nova-Tech Engineering Recent Developments
Table 99. Bielomatik Basic Information
Table 100. Bielomatik Friction Welding Product Overview
Table 101. Bielomatik Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. Bielomatik Business Overview
Table 103. Bielomatik Recent Developments
Table 104. Beijing FSW Basic Information
Table 105. Beijing FSW Friction Welding Product Overview
Table 106. Beijing FSW Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. Beijing FSW Business Overview
Table 108. Beijing FSW Recent Developments
Table 109. FOOKE GmbH Basic Information
Table 110. FOOKE GmbH Friction Welding Product Overview
Table 111. FOOKE GmbH Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 112. FOOKE GmbH Business Overview
Table 113. FOOKE GmbH Recent Developments
Table 114. PaR Systems Basic Information
Table 115. PaR Systems Friction Welding Product Overview
Table 116. PaR Systems Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 117. PaR Systems Business Overview
Table 118. PaR Systems Recent Developments
Table 119. Crest Group Basic Information
Table 120. Crest Group Friction Welding Product Overview
Table 121. Crest Group Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 122. Crest Group Business Overview
Table 123. Crest Group Recent Developments
Table 124. Symacon Basic Information
Table 125. Symacon Friction Welding Product Overview
Table 126. Symacon Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 127. Symacon Business Overview
Table 128. Symacon Recent Developments
Table 129. General Tool Company Basic Information
Table 130. General Tool Company Friction Welding Product Overview
Table 131. General Tool Company Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 132. General Tool Company Business Overview
Table 133. General Tool Company Recent Developments
Table 134. Dukane Basic Information
Table 135. Dukane Friction Welding Product Overview
Table 136. Dukane Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 137. Dukane Business Overview
Table 138. Dukane Recent Developments
Table 139. ETA Basic Information
Table 140. ETA Friction Welding Product Overview
Table 141. ETA Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 142. ETA Business Overview
Table 143. ETA Recent Developments
Table 144. Sooncable Basic Information
Table 145. Sooncable Friction Welding Product Overview
Table 146. Sooncable Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 147. Sooncable Business Overview
Table 148. Sooncable Recent Developments
Table 149. Sakae Industries Basic Information
Table 150. Sakae Industries Friction Welding Product Overview
Table 151. Sakae Industries Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 152. Sakae Industries Business Overview
Table 153. Sakae Industries Recent Developments
Table 154. Nitto Seiki Basic Information
Table 155. Nitto Seiki Friction Welding Product Overview
Table 156. Nitto Seiki Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 157. Nitto Seiki Business Overview
Table 158. Nitto Seiki Recent Developments
Table 159. Gatwick Basic Information

Table 160. Gatwick Friction Welding Product Overview
Table 161. Gatwick Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 162. Gatwick Business Overview
Table 163. Gatwick Recent Developments
Table 164. Keber Basic Information
Table 165. Keber Friction Welding Product Overview
Table 166. Keber Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 167. Keber Business Overview
Table 168. Keber Recent Developments
Table 169. U-Jin Tech Basic Information
Table 170. U-Jin Tech Friction Welding Product Overview
Table 171. U-Jin Tech Friction Welding Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 172. U-Jin Tech Business Overview
Table 173. U-Jin Tech Recent Developments
Table 174. Global Friction Welding Sales Forecast by Region (2026-2033) & (K Units)
Table 175. Global Friction Welding Market Size Forecast by Region (2026-2033) & (M USD)
Table 176. North America Friction Welding Sales Forecast by Country (2026-2033) & (K Units)
Table 177. North America Friction Welding Market Size Forecast by Country (2026-2033) & (M USD)
Table 178. Europe Friction Welding Sales Forecast by Country (2026-2033) & (K Units)
Table 179. Europe Friction Welding Market Size Forecast by Country (2026-2033) & (M USD)
Table 180. Asia Pacific Friction Welding Sales Forecast by Region (2026-2033) & (K Units)
Table 181. Asia Pacific Friction Welding Market Size Forecast by Region (2026-2033) & (M USD)
Table 182. South America Friction Welding Sales Forecast by Country (2026-2033) & (K Units)
Table 183. South America Friction Welding Market Size Forecast by Country (2026-2033) & (M USD)
Table 184. Middle East and Africa Friction Welding Sales Forecast by Country (2026-2033) & (Units)
Table 185. Middle East and Africa Friction Welding Market Size Forecast by Country (2026-2033) & (M USD)

Table 186. Global Friction Welding Sales Forecast by Type (2026-2033) & (K Units)

Table 187. Global Friction Welding Market Size Forecast by Type (2026-2033) & (M USD)

Table 188. Global Friction Welding Price Forecast by Type (2026-2033) & (USD/Unit)

Table 189. Global Friction Welding Sales (K Units) Forecast by Application (2026-2033)

Table 190. Global Friction Welding Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Friction Welding
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Friction Welding Market Size (M USD), 2024-2033
- Figure 5. Global Friction Welding Market Size (M USD) (2020-2033)
- Figure 6. Global Friction Welding Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Friction Welding Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Friction Welding Product Life Cycle
- Figure 13. Friction Welding Sales Share by Manufacturers in 2024
- Figure 14. Global Friction Welding Revenue Share by Manufacturers in 2024
- Figure 15. Friction Welding Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Friction Welding Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Friction Welding Revenue in 2024
- Figure 18. Industry Chain Map of Friction Welding
- Figure 19. Global Friction Welding Market PEST Analysis
- Figure 20. Global Friction Welding Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Friction Welding Market Share by Type
- Figure 27. Sales Market Share of Friction Welding by Type (2020-2025)
- Figure 28. Sales Market Share of Friction Welding by Type in 2024
- Figure 29. Market Size Share of Friction Welding by Type (2020-2025)
- Figure 30. Market Size Share of Friction Welding by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Friction Welding Market Share by Application

Figure 33. Global Friction Welding Sales Market Share by Application (2020-2025)

Figure 34. Global Friction Welding Sales Market Share by Application in 2024

Figure 35. Global Friction Welding Market Share by Application (2020-2025)

Figure 36. Global Friction Welding Market Share by Application in 2024

Figure 37. Global Friction Welding Sales Growth Rate by Application (2020-2025)

Figure 38. Global Friction Welding Sales Market Share by Region (2020-2025)

Figure 39. Global Friction Welding Market Size Market Share by Region (2020-2025)

Figure 40. North America Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Friction Welding Sales Market Share by Country in 2024

Figure 43. North America Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Friction Welding Market Size Market Share by Country in 2024

Figure 45. U.S. Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Friction Welding Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Friction Welding Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Friction Welding Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Friction Welding Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Friction Welding Sales Market Share by Country in 2024

Figure 53. Europe Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Friction Welding Market Size Market Share by Country in 2024

Figure 55. Germany Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Friction Welding Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Friction Welding Sales Market Share by Region in 2024

Figure 67. Asia Pacific Friction Welding Market Size Market Share by Region in 2024

Figure 68. China Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Friction Welding Sales and Growth Rate (K Units)

Figure 79. South America Friction Welding Sales Market Share by Country in 2024

Figure 80. South America Friction Welding Market Size and Growth Rate (M USD)

Figure 81. South America Friction Welding Market Size Market Share by Country in 2024

Figure 82. Brazil Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Friction Welding Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Friction Welding Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Friction Welding Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Friction Welding Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Friction Welding Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Friction Welding Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Friction Welding Production Market Share by Region (2020-2025)

Figure 103. North America Friction Welding Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Friction Welding Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Friction Welding Production (K Units) Growth Rate (2020-2025)

Figure 106. China Friction Welding Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Friction Welding Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Friction Welding Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Friction Welding Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Friction Welding Market Share Forecast by Type (2026-2033)

Figure 111. Global Friction Welding Sales Forecast by Application (2026-2033)

Figure 112. Global Friction Welding Market Share Forecast by Application (2026-2033)

I would like to order

Product name: Global Friction Welding Market Research Report 2025(Status and Outlook)

Product link: <https://marketpublishers.com/r/G5F6E0EB3AF8EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G5F6E0EB3AF8EN.html>