

# Global Rotary Friction Welding Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Rotary Friction Welding market size is expected to reach \$ 342 million by 2032, rising at a market growth of 2.3% CAGR during the forecast period (2026-2032).

In 2024, global Rotary Friction Welding production reached approximately 451 units, with an average global market price of around 608K US\$/Unit. Rotary Friction Welding is a solid-state process in which one part is rotated at a high speed, and then pressed against another part that is held stationary. The resulting friction heats the parts, causing them to forge together.

### Core driving factors

**Lightweighting of new energy vehicles:** The demand for components such as battery trays and motor housings has soared, and it is expected that the proportion of the new energy sector will exceed 40% by 2030.

**High-precision demands in aerospace:** The welding strength of titanium alloy - carbon fiber dissimilar materials needs to reach over 95% of the base material, promoting the procurement of high-end equipment.

**Green manufacturing policy:** The EU REACH regulation and China's 'dual carbon' goals require that equipment energy efficiency be improved by more than 30%, and smoke and dust emissions be lower than 5mg/m<sup>3</sup>.

### Intelligentization and automation

The penetration rate of the Industrial Internet of Things (IIoT) will increase from 18% in

2023 to 45% in 2030, achieving real-time monitoring of welding parameters and AI process optimization.

Robot integration technology is accelerating its application. For instance, KUKA's intelligent welding system can dynamically adjust the path, increasing the pass rate to 99.9%.

#### Innovation in materials and processes

High-entropy oxides (such as Co-Mn-Fe-Ni-Zn-O) used in stirring heads extend their service life by 50%.

The laser-friction welding composite technology has broken through the bottleneck of aluminum alloy welding, increasing efficiency by 40%.

#### Challenges and Risks

Technical barriers: The welding strength of composite materials is insufficient, and the heat resistance of high-temperature alloy molds needs to exceed 2000?.

Policy risks: Stricter environmental regulations may increase the cost of equipment renovation, such as the impact of the EU carbon tariff on exports.

This report studies the global Rotary Friction Welding production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Rotary Friction Welding and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Rotary Friction Welding that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Rotary Friction Welding total production and demand, 2021-2032, (Units)

Global Rotary Friction Welding total production value, 2021-2032, (USD Million)

Global Rotary Friction Welding production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Rotary Friction Welding consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Rotary Friction Welding domestic production, consumption, key domestic manufacturers and share

Global Rotary Friction Welding production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Rotary Friction Welding production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Rotary Friction Welding production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Rotary Friction Welding market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thompsons (KUKA), MTI, Nitto Seiki, Izumi Machine, ETA, U-Jin Tech, Sakae Industries, YUAN YU, Jiangsu RCM, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Rotary Friction Welding market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Rotary Friction Welding Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Rotary Friction Welding Market, Segmentation by Type:

Inertia Rotary Friction Welding

Direct Drive Rotary Friction Welding

#### Global Rotary Friction Welding Market, Segmentation by Application:

Automotive Manufacturing

Cutting Tool Manufacturing

Aviation & Shipbuilding

Machine Components

Hydraulic/Pneumatic Parts

Electric and Wiring Parts

Others

#### Companies Profiled:

Thompson (KUKA)

MTI

Nitto Seiki

Izumi Machine

ETA

U-Jin Tech

Sakae Industries

YUAN YU

Jiangsu RCM

**Key Questions Answered:**

1. How big is the global Rotary Friction Welding market?
2. What is the demand of the global Rotary Friction Welding market?
3. What is the year over year growth of the global Rotary Friction Welding market?
4. What is the production and production value of the global Rotary Friction Welding market?
5. Who are the key producers in the global Rotary Friction Welding market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 SCADA Introduction
- 1.2 World SCADA Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World SCADA Total Market by Region (by Headquarter Location)
  - 1.3.1 World SCADA Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company SCADA Revenue (2021-2032)
  - 1.3.3 China Based Company SCADA Revenue (2021-2032)
  - 1.3.4 Europe Based Company SCADA Revenue (2021-2032)
  - 1.3.5 Japan Based Company SCADA Revenue (2021-2032)
  - 1.3.6 South Korea Based Company SCADA Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company SCADA Revenue (2021-2032)
  - 1.3.8 India Based Company SCADA Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 SCADA Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World SCADA Consumption Value (2021-2032)
- 2.2 World SCADA Consumption Value by Region
  - 2.2.1 World SCADA Consumption Value by Region (2021-2026)
  - 2.2.2 World SCADA Consumption Value Forecast by Region (2027-2032)
- 2.3 United States SCADA Consumption Value (2021-2032)
- 2.4 China SCADA Consumption Value (2021-2032)
- 2.5 Europe SCADA Consumption Value (2021-2032)
- 2.6 Japan SCADA Consumption Value (2021-2032)
- 2.7 South Korea SCADA Consumption Value (2021-2032)
- 2.8 ASEAN SCADA Consumption Value (2021-2032)
- 2.9 India SCADA Consumption Value (2021-2032)

### 3 WORLD SCADA COMPANIES COMPETITIVE ANALYSIS

- 3.1 World SCADA Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
  - 3.2.1 Global SCADA Industry Rank of Major Players

- 3.2.2 Global Concentration Ratios (CR4) for SCADA in 2025
- 3.2.3 Global Concentration Ratios (CR8) for SCADA in 2025
- 3.3 SCADA Company Evaluation Quadrant
- 3.4 SCADA Market: Overall Company Footprint Analysis
  - 3.4.1 SCADA Market: Region Footprint
  - 3.4.2 SCADA Market: Company Product Type Footprint
  - 3.4.3 SCADA Market: Company Product Application Footprint
- 3.5 Competitive Environment
  - 3.5.1 Historical Structure of the Industry
  - 3.5.2 Barriers of Market Entry
  - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

## **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

- 4.1 United States VS China: SCADA Revenue Comparison (by Headquarter Location)
  - 4.1.1 United States VS China: SCADA Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  - 4.1.2 United States VS China: SCADA Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: SCADA Consumption Value Comparison
  - 4.2.1 United States VS China: SCADA Consumption Value Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: SCADA Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based SCADA Companies and Market Share, 2021-2026
  - 4.3.1 United States Based SCADA Companies, Headquarters (States, Country)
  - 4.3.2 United States Based Companies SCADA Revenue, (2021-2026)
- 4.4 China Based Companies SCADA Revenue and Market Share, 2021-2026
  - 4.4.1 China Based SCADA Companies, Company Headquarters (Province, Country)
  - 4.4.2 China Based Companies SCADA Revenue, (2021-2026)
- 4.5 Rest of World Based SCADA Companies and Market Share, 2021-2026
  - 4.5.1 Rest of World Based SCADA Companies, Headquarters (Province, Country)
  - 4.5.2 Rest of World Based Companies SCADA Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

## 5.1 World SCADA Market Size Overview by Type: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Type

#### 5.2.1 Hardware

#### 5.2.2 Software

#### 5.2.3 Services

### 5.3 Market Segment by Type

#### 5.3.1 World SCADA Market Size by Type (2021-2026)

#### 5.3.2 World SCADA Market Size by Type (2027-2032)

#### 5.3.3 World SCADA Market Size Market Share by Type (2027-2032)

## 6 MARKET ANALYSIS BY APPLICATION

### 6.1 World SCADA Market Size Overview by Application: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Application

##### 6.2.1 Power & Energy

##### 6.2.2 Oil & Gas Industry

##### 6.2.3 Water & Waste Control

##### 6.2.4 Telecommunications

##### 6.2.5 Transportation

##### 6.2.6 Manufacturing Industry

##### 6.2.7 Others

#### 6.3 Market Segment by Application

##### 6.3.1 World SCADA Market Size by Application (2021-2026)

##### 6.3.2 World SCADA Market Size by Application (2027-2032)

##### 6.3.3 World SCADA Market Size Market Share by Application (2021-2032)

## 7 COMPANY PROFILES

### 7.1 Schneider Electric SE (France)

#### 7.1.1 Schneider Electric SE (France) Details

#### 7.1.2 Schneider Electric SE (France) Major Business

#### 7.1.3 Schneider Electric SE (France) SCADA Product and Services

#### 7.1.4 Schneider Electric SE (France) SCADA Revenue, Gross Margin and Market Share (2021-2026)

#### 7.1.5 Schneider Electric SE (France) Recent Developments/Updates

#### 7.1.6 Schneider Electric SE (France) Competitive Strengths & Weaknesses

### 7.2 ABB (Switzerland)

#### 7.2.1 ABB (Switzerland) Details

#### 7.2.2 ABB (Switzerland) Major Business

- 7.2.3 ABB (Switzerland) SCADA Product and Services
- 7.2.4 ABB (Switzerland) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.2.5 ABB (Switzerland) Recent Developments/Updates
- 7.2.6 ABB (Switzerland) Competitive Strengths & Weaknesses
- 7.3 Siemens AG (Germany)
  - 7.3.1 Siemens AG (Germany) Details
  - 7.3.2 Siemens AG (Germany) Major Business
  - 7.3.3 Siemens AG (Germany) SCADA Product and Services
  - 7.3.4 Siemens AG (Germany) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.3.5 Siemens AG (Germany) Recent Developments/Updates
  - 7.3.6 Siemens AG (Germany) Competitive Strengths & Weaknesses
- 7.4 Emerson (US)
  - 7.4.1 Emerson (US) Details
  - 7.4.2 Emerson (US) Major Business
  - 7.4.3 Emerson (US) SCADA Product and Services
  - 7.4.4 Emerson (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.4.5 Emerson (US) Recent Developments/Updates
  - 7.4.6 Emerson (US) Competitive Strengths & Weaknesses
- 7.5 Rockwell Automation Inc. (US)
  - 7.5.1 Rockwell Automation Inc. (US) Details
  - 7.5.2 Rockwell Automation Inc. (US) Major Business
  - 7.5.3 Rockwell Automation Inc. (US) SCADA Product and Services
  - 7.5.4 Rockwell Automation Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.5.5 Rockwell Automation Inc. (US) Recent Developments/Updates
  - 7.5.6 Rockwell Automation Inc. (US) Competitive Strengths & Weaknesses
- 7.6 Honeywell International Inc. (US)
  - 7.6.1 Honeywell International Inc. (US) Details
  - 7.6.2 Honeywell International Inc. (US) Major Business
  - 7.6.3 Honeywell International Inc. (US) SCADA Product and Services
  - 7.6.4 Honeywell International Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.6.5 Honeywell International Inc. (US) Recent Developments/Updates
  - 7.6.6 Honeywell International Inc. (US) Competitive Strengths & Weaknesses
- 7.7 Mitsubishi Electric (Japan)
  - 7.7.1 Mitsubishi Electric (Japan) Details
  - 7.7.2 Mitsubishi Electric (Japan) Major Business

- 7.7.3 Mitsubishi Electric (Japan) SCADA Product and Services
- 7.7.4 Mitsubishi Electric (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.7.5 Mitsubishi Electric (Japan) Recent Developments/Updates
- 7.7.6 Mitsubishi Electric (Japan) Competitive Strengths & Weaknesses
- 7.8 Omron Corporation (Japan)
  - 7.8.1 Omron Corporation (Japan) Details
  - 7.8.2 Omron Corporation (Japan) Major Business
  - 7.8.3 Omron Corporation (Japan) SCADA Product and Services
  - 7.8.4 Omron Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.8.5 Omron Corporation (Japan) Recent Developments/Updates
  - 7.8.6 Omron Corporation (Japan) Competitive Strengths & Weaknesses
- 7.9 General Electric Co. (US)
  - 7.9.1 General Electric Co. (US) Details
  - 7.9.2 General Electric Co. (US) Major Business
  - 7.9.3 General Electric Co. (US) SCADA Product and Services
  - 7.9.4 General Electric Co. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.9.5 General Electric Co. (US) Recent Developments/Updates
  - 7.9.6 General Electric Co. (US) Competitive Strengths & Weaknesses
- 7.10 Yokogawa Electric Corporation (Japan)
  - 7.10.1 Yokogawa Electric Corporation (Japan) Details
  - 7.10.2 Yokogawa Electric Corporation (Japan) Major Business
  - 7.10.3 Yokogawa Electric Corporation (Japan) SCADA Product and Services
  - 7.10.4 Yokogawa Electric Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.10.5 Yokogawa Electric Corporation (Japan) Recent Developments/Updates
  - 7.10.6 Yokogawa Electric Corporation (Japan) Competitive Strengths & Weaknesses
- 7.11 Larsen & Toubro (India)
  - 7.11.1 Larsen & Toubro (India) Details
  - 7.11.2 Larsen & Toubro (India) Major Business
  - 7.11.3 Larsen & Toubro (India) SCADA Product and Services
  - 7.11.4 Larsen & Toubro (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.11.5 Larsen & Toubro (India) Recent Developments/Updates
  - 7.11.6 Larsen & Toubro (India) Competitive Strengths & Weaknesses
- 7.12 M.B. Control & Systems Pvt. Ltd (India)
  - 7.12.1 M.B. Control & Systems Pvt. Ltd (India) Details

- 7.12.2 M.B. Control & Systems Pvt. Ltd (India) Major Business
- 7.12.3 M.B. Control & Systems Pvt. Ltd (India) SCADA Product and Services
- 7.12.4 M.B. Control & Systems Pvt. Ltd (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.12.5 M.B. Control & Systems Pvt. Ltd (India) Recent Developments/Updates
- 7.12.6 M.B. Control & Systems Pvt. Ltd (India) Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 SCADA Industry Chain
- 8.2 SCADA Upstream Analysis
- 8.3 SCADA Midstream Analysis
- 8.4 SCADA Downstream Analysis

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Rotary Friction Welding Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Rotary Friction Welding Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Rotary Friction Welding Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Rotary Friction Welding Production Value Market Share by Region (2021-2026)
- Table 5. World Rotary Friction Welding Production Value Market Share by Region (2027-2032)
- Table 6. World Rotary Friction Welding Production by Region (2021-2026) & (Units)
- Table 7. World Rotary Friction Welding Production by Region (2027-2032) & (Units)
- Table 8. World Rotary Friction Welding Production Market Share by Region (2021-2026)
- Table 9. World Rotary Friction Welding Production Market Share by Region (2027-2032)
- Table 10. World Rotary Friction Welding Average Price by Region (2021-2026) & (K USD/Unit)
- Table 11. World Rotary Friction Welding Average Price by Region (2027-2032) & (K USD/Unit)
- Table 12. Rotary Friction Welding Major Market Trends
- Table 13. World Rotary Friction Welding Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
- Table 14. World Rotary Friction Welding Consumption by Region (2021-2026) & (Units)
- Table 15. World Rotary Friction Welding Consumption Forecast by Region (2027-2032) & (Units)
- Table 16. World Rotary Friction Welding Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Rotary Friction Welding Producers in 2025
- Table 18. World Rotary Friction Welding Production by Manufacturer (2021-2026) & (Units)
- Table 19. Production Market Share of Key Rotary Friction Welding Producers in 2025
- Table 20. World Rotary Friction Welding Average Price by Manufacturer (2021-2026) & (K USD/Unit)

- Table 21. Global Rotary Friction Welding Company Evaluation Quadrant
- Table 22. World Rotary Friction Welding Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Rotary Friction Welding Production Site of Key Manufacturer
- Table 24. Rotary Friction Welding Market: Company Product Type Footprint
- Table 25. Rotary Friction Welding Market: Company Product Application Footprint
- Table 26. Rotary Friction Welding Competitive Factors
- Table 27. Rotary Friction Welding New Entrant and Capacity Expansion Plans
- Table 28. Rotary Friction Welding Mergers & Acquisitions Activity
- Table 29. United States VS China Rotary Friction Welding Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Rotary Friction Welding Production Comparison, (2021 & 2025 & 2032) & (Units)
- Table 31. United States VS China Rotary Friction Welding Consumption Comparison, (2021 & 2025 & 2032) & (Units)
- Table 32. United States Based Rotary Friction Welding Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Rotary Friction Welding Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Rotary Friction Welding Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Rotary Friction Welding Production (2021-2026) & (Units)
- Table 36. United States Based Manufacturers Rotary Friction Welding Production Market Share (2021-2026)
- Table 37. China Based Rotary Friction Welding Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Rotary Friction Welding Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Rotary Friction Welding Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Rotary Friction Welding Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Rotary Friction Welding Production Market Share (2021-2026)
- Table 42. Rest of World Based Rotary Friction Welding Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Rotary Friction Welding Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Rotary Friction Welding Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Rotary Friction Welding Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Rotary Friction Welding Production Market Share (2021-2026)

Table 47. World Rotary Friction Welding Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Rotary Friction Welding Production by Type (2021-2026) & (Units)

Table 49. World Rotary Friction Welding Production by Type (2027-2032) & (Units)

Table 50. World Rotary Friction Welding Production Value by Type (2021-2026) & (USD Million)

Table 51. World Rotary Friction Welding Production Value by Type (2027-2032) & (USD Million)

Table 52. World Rotary Friction Welding Average Price by Type (2021-2026) & (K USD/Unit)

Table 53. World Rotary Friction Welding Average Price by Type (2027-2032) & (K USD/Unit)

Table 54. World Rotary Friction Welding Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Rotary Friction Welding Production by Application (2021-2026) & (Units)

Table 56. World Rotary Friction Welding Production by Application (2027-2032) & (Units)

Table 57. World Rotary Friction Welding Production Value by Application (2021-2026) & (USD Million)

Table 58. World Rotary Friction Welding Production Value by Application (2027-2032) & (USD Million)

Table 59. World Rotary Friction Welding Average Price by Application (2021-2026) & (K USD/Unit)

Table 60. World Rotary Friction Welding Average Price by Application (2027-2032) & (K USD/Unit)

Table 61. Thompsons (KUKA) Basic Information, Manufacturing Base and Competitors

Table 62. Thompsons (KUKA) Major Business

Table 63. Thompsons (KUKA) Rotary Friction Welding Product and Services

Table 64. Thompsons (KUKA) Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Thompsons (KUKA) Recent Developments/Updates

- Table 66. Thompsons (KUKA) Competitive Strengths & Weaknesses
- Table 67. MTI Basic Information, Manufacturing Base and Competitors
- Table 68. MTI Major Business
- Table 69. MTI Rotary Friction Welding Product and Services
- Table 70. MTI Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 71. MTI Recent Developments/Updates
- Table 72. MTI Competitive Strengths & Weaknesses
- Table 73. Nitto Seiki Basic Information, Manufacturing Base and Competitors
- Table 74. Nitto Seiki Major Business
- Table 75. Nitto Seiki Rotary Friction Welding Product and Services
- Table 76. Nitto Seiki Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. Nitto Seiki Recent Developments/Updates
- Table 78. Nitto Seiki Competitive Strengths & Weaknesses
- Table 79. Izumi Machine Basic Information, Manufacturing Base and Competitors
- Table 80. Izumi Machine Major Business
- Table 81. Izumi Machine Rotary Friction Welding Product and Services
- Table 82. Izumi Machine Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. Izumi Machine Recent Developments/Updates
- Table 84. Izumi Machine Competitive Strengths & Weaknesses
- Table 85. ETA Basic Information, Manufacturing Base and Competitors
- Table 86. ETA Major Business
- Table 87. ETA Rotary Friction Welding Product and Services
- Table 88. ETA Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. ETA Recent Developments/Updates
- Table 90. ETA Competitive Strengths & Weaknesses
- Table 91. U-Jin Tech Basic Information, Manufacturing Base and Competitors
- Table 92. U-Jin Tech Major Business
- Table 93. U-Jin Tech Rotary Friction Welding Product and Services
- Table 94. U-Jin Tech Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. U-Jin Tech Recent Developments/Updates
- Table 96. U-Jin Tech Competitive Strengths & Weaknesses
- Table 97. Sakae Industries Basic Information, Manufacturing Base and Competitors
- Table 98. Sakae Industries Major Business

- Table 99. Sakae Industries Rotary Friction Welding Product and Services
- Table 100. Sakae Industries Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Sakae Industries Recent Developments/Updates
- Table 102. Sakae Industries Competitive Strengths & Weaknesses
- Table 103. YUAN YU Basic Information, Manufacturing Base and Competitors
- Table 104. YUAN YU Major Business
- Table 105. YUAN YU Rotary Friction Welding Product and Services
- Table 106. YUAN YU Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 107. YUAN YU Recent Developments/Updates
- Table 108. YUAN YU Competitive Strengths & Weaknesses
- Table 109. Jiangsu RCM Basic Information, Manufacturing Base and Competitors
- Table 110. Jiangsu RCM Major Business
- Table 111. Jiangsu RCM Rotary Friction Welding Product and Services
- Table 112. Jiangsu RCM Rotary Friction Welding Production (Units), Price (K USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 113. Jiangsu RCM Recent Developments/Updates
- Table 114. Jiangsu RCM Competitive Strengths & Weaknesses
- Table 115. Global Key Players of Rotary Friction Welding Upstream (Raw Materials)
- Table 116. Global Rotary Friction Welding Typical Customers
- Table 117. Rotary Friction Welding Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Rotary Friction Welding Picture

Figure 2. World Rotary Friction Welding Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Rotary Friction Welding Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Rotary Friction Welding Production (2021-2032) & (Units)

Figure 5. World Rotary Friction Welding Average Price (2021-2032) & (K USD/Unit)

Figure 6. World Rotary Friction Welding Production Value Market Share by Region (2021-2032)

Figure 7. World Rotary Friction Welding Production Market Share by Region (2021-2032)

Figure 8. North America Rotary Friction Welding Production (2021-2032) & (Units)

Figure 9. Europe Rotary Friction Welding Production (2021-2032) & (Units)

Figure 10. China Rotary Friction Welding Production (2021-2032) & (Units)

Figure 11. Japan Rotary Friction Welding Production (2021-2032) & (Units)

Figure 12. South Korea Rotary Friction Welding Production (2021-2032) & (Units)

Figure 13. China Taiwan Rotary Friction Welding Production (2021-2032) & (Units)

Figure 14. India Rotary Friction Welding Production (2021-2032) & (Units)

Figure 15. Rotary Friction Welding Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 18. World Rotary Friction Welding Consumption Market Share by Region (2021-2032)

Figure 19. United States Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 20. China Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 21. Europe Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 22. Japan Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 23. South Korea Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 24. ASEAN Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 25. India Rotary Friction Welding Consumption (2021-2032) & (Units)

Figure 26. Producer Shipments of Rotary Friction Welding by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Rotary Friction Welding Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Rotary Friction Welding

## Markets in 2025

Figure 29. United States VS China: Rotary Friction Welding Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Rotary Friction Welding Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Rotary Friction Welding Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Rotary Friction Welding Production Market Share 2025

Figure 33. China Based Manufacturers Rotary Friction Welding Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Rotary Friction Welding Production Market Share 2025

Figure 35. World Rotary Friction Welding Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Rotary Friction Welding Production Value Market Share by Type in 2025

Figure 37. Inertia Rotary Friction Welding

Figure 38. Direct Drive Rotary Friction Welding

Figure 39. World Rotary Friction Welding Production Market Share by Type (2021-2032)

Figure 40. World Rotary Friction Welding Production Value Market Share by Type (2021-2032)

Figure 41. World Rotary Friction Welding Average Price by Type (2021-2032) & (K USD/Unit)

Figure 42. World Rotary Friction Welding Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 43. World Rotary Friction Welding Production Value Market Share by Application in 2025

Figure 44. Automotive Manufacturing

Figure 45. Cutting Tool Manufacturing

Figure 46. Aviation & Shipbuilding

Figure 47. Machine Components

Figure 48. Hydraulic/Pneumatic Parts

Figure 49. Electric and Wiring Parts

Figure 50. Others

Figure 51. World Rotary Friction Welding Production Market Share by Application (2021-2032)

Figure 52. World Rotary Friction Welding Production Value Market Share by Application (2021-2032)

Figure 53. World Rotary Friction Welding Average Price by Application (2021-2032) & (K USD/Unit)

Figure 54. Rotary Friction Welding Industry Chain

Figure 55. Rotary Friction Welding Procurement Model

Figure 56. Rotary Friction Welding Sales Model

Figure 57. Rotary Friction Welding Sales Channels, Direct Sales, and Distribution

Figure 58. Methodology

Figure 59. Research Process and Data Source

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