

# Global Friction Welder Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Friction Welder competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global Metal Friction Welding production reached approximately 1108 units, with an average global market price of around 534K 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. Friction stir welding (FSW) is a solid-state joining process that uses a non-consumable tool to join two facing workpieces without melting the workpiece material. Heat is generated by friction between the rotating tool and the workpiece material, which leads to a softened region near the FSW tool. 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. Emerging application fields New energy battery manufacturing: Friction stir welding equipment has increased material utilization by 15% and reduced costs by 20% in the production of battery trays. Domestic enterprises such as aerospace engineering equipment have achieved batch application. Semiconductors and energy storage: The welding yield of ultra-thin plates (0.3mm) reaches 99.5%, suitable for precision components such as liquid-cooled plates and energy storage boxes.

The global Friction Welder market size was estimated at USD 592.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Friction Welder 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 Welder 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 Welder market.

## **Global Friction Welder 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**

Thompson (KUKA)  
MTI  
Nitto Seiki  
Izumi Machine  
ETA  
U-Jin Tech  
Sakae Industries  
YUAN YU  
Jiangsu RCM  
Grenzebach Maschinenbau GmbH  
Nova-Tech Engineering  
Beijing FSW  
FOOKE GmbH  
PaR Systems  
General Tool Company  
Sooncable  
Aerospace Engineering Equipment  
Stirweld  
Stirtec  
World Wide Welding (WWW)

### **Market Segmentation (by Type)**

Rotary Friction Welding

Friction Stir Welding

### **Market Segmentation (by Application)**

Automotive Manufacturing  
Cutting Tool Manufacturing  
Aviation & Shipbuilding  
Machine Components  
Hydraulic/Pneumatic Parts  
Electric and Wiring Parts  
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 Welder Market  
Overview of the regional outlook of the Friction Welder 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 Welder 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 Welder, 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**

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