

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

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Abstracts

The global Friction Welding Machine market size is expected to reach \$ 991 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Friction Welding Machine is a type of machine which uses friction welding technology to work. Traditionally, friction welding is carried out by moving one component relative to the other along a common interface, while applying a compressive force across the joint. The friction heating generated at the interface softens both components, and when they become plasticised the interface material is extruded out of the edges of the joint so that clean material from each component is left along the original interface. The relative motion is then stopped, and a higher final compressive force may be applied before the joint is allowed to cool. The key to friction welding is that no molten material is generated, the weld being formed in the solid state.

In 2024, global Friction Welding Machine production reached approximately 2,500 units, with an average global market price of around US\$ 240,000/unit.

The global friction welding machine market, covering rotary friction welding (RFW), linear friction welding (LFW), and friction stir welding (FSW) technologies, holds strong growth potential driven by the rising demand for high-strength, defect-free, and energy-efficient solid-state joining solutions in industries where conventional fusion welding falls short, including aerospace, automotive, railway, oil & gas, energy, heavy machinery, and medical device manufacturing; aerospace applications are expanding rapidly, with LFW enabling the production of complex titanium and nickel alloy blisks and other high-value components for jet engines, while RFW and FSW are increasingly used in automotive manufacturing to join lightweight aluminum, copper, and dissimilar metals for improved fuel efficiency and electrification; in rail transport, FSW and RFW are

replacing traditional arc welding for better fatigue resistance in rolling stock and track components; in energy and oilfield sectors, friction welding is vital for turbine shafts, drill pipes, and heat exchanger components that operate in extreme conditions; the market is further supported by sustainability trends, as friction welding offers lower energy consumption, reduced material waste, and minimal need for filler materials compared with fusion welding, aligning with global carbon reduction targets; technological advances such as automated process control, real-time monitoring, hybrid welding systems, and the integration of Industry 4.0 analytics are increasing productivity and reducing defect rates, making these machines more attractive for high-volume and high-precision production; emerging economies in Asia-Pacific, particularly China and India, are scaling up adoption due to industrial upgrading, while Europe and North America remain leaders in aerospace, defense, and specialized manufacturing applications; despite high capital costs and the need for skilled operators posing short-term adoption barriers, ongoing R&D, growing application diversity, and strong end-user partnerships are expected to drive robust double-digit growth over the next decade, solidifying friction welding as a critical enabler of advanced manufacturing.

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

This report is a detailed and comprehensive analysis of the world market for Friction Welding Machine 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 Friction Welding Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Friction Welding Machine 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 KUKA, Izumi Machine, Branson (Emerson), MTI, Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Bielomatik, FOOKE GmbH, PaR Systems, Aerospace Engineering Equipment, 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 Friction Welding Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/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 Friction Welding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Friction Welding Machine Market, Segmentation by Type:

Linear Friction Welding

Rotary Friction Welding

Stir Friction Welding

Global Friction Welding Machine Market, Segmentation by Application:

Aerospace and Defence

Automotive

Shipbuilding

General Machine Manufacturing

Others

Companies Profiled:

KUKA

Izumi Machine

Branson (Emerson)

MTI

Grenzebach Maschinenbau GmbH

Nova-Tech Engineering

Bielomatik

FOOKE GmbH

PaR Systems

Aerospace Engineering Equipment

Crest Group

Beijing FSW

Changchun CNC Machine

General Tool Company

Sooncable

Dukane

ETA

Jiangsu Ruicheng Machinery

Guangzhou Risong

Sakae Industries

U-Jin Tech

Nitto Seiki

Gatwick

Keber

Key Questions Answered:

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

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

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