

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

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Abstracts

The global Friction Stir Welding Machines market size is expected to reach \$ 428 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Friction Stir Welding Machines are solid-state joining equipment used to weld aluminum alloys, magnesium alloys, copper alloys, titanium alloys, and other materials without melting the base metal. During the process, a rotating non-consumable tool is pressed into the joint line, generating frictional heat and plastic deformation. The softened material is stirred and forged together to form a high-strength joint. These machines usually include a rigid frame, spindle, tool holder, force control system, CNC motion control, clamping system, cooling system, and process monitoring unit. They are widely used in aerospace structures, railway panels, shipbuilding, electric vehicle battery trays, automotive parts, heat exchangers, and industrial aluminum structures. The industrial chain of Friction Stir Welding Machines includes upstream components such as high-rigidity machine frames, spindles, FSW tools, tool holders, servo drives, CNC controllers, force sensors, clamping fixtures, cooling units, monitoring systems, hydraulic or electric actuators, safety systems, and industrial software. The midstream covers machine design, tool design, force control development, CNC path programming, fixture engineering, process parameter validation, assembly, testing, and commissioning. Downstream users mainly include aerospace manufacturers, railway vehicle producers, shipbuilders, electric vehicle battery tray manufacturers, automotive component suppliers, heat exchanger producers, aluminum structure makers, and industrial equipment manufacturers. Supporting services include tool supply, fixture customization, process development, weld qualification, maintenance, calibration, software upgrades, training, and spare parts supply. In 2025, global Friction Stir Welding Machine production reached approximately 589 units, with an average global market

price of around US\$450,000 per unit. The gross profit margin of major companies in the industry is between 30%-50%. In 2025, the global production capacity of Friction Stir Welding Machine was approximately 785 units.

The Friction Stir Welding Machine market is growing steadily as industries demand high-strength, low-distortion, and environmentally friendly joining technologies for lightweight materials. FSW is particularly suitable for aluminum alloy structures used in aerospace, railway vehicles, shipbuilding, electric vehicle battery trays, automotive body parts, and heat exchangers. Compared with fusion welding, friction stir welding can reduce porosity, hot cracking, distortion, and filler material consumption while improving weld strength and process repeatability. Demand is supported by lightweight transportation, electric vehicle platforms, large aluminum panels, high-integrity aerospace components, and green manufacturing requirements. Equipment development is moving toward high-stiffness gantry systems, robotic FSW, hybrid FSW, real-time force control, digital monitoring, and multi-axis CNC processing. However, high equipment cost, fixture design complexity, tool wear, process qualification, and limitations in complex three-dimensional weld paths remain key barriers. Suppliers with strong tool design, force control, CNC integration, and application process support are more competitive.

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

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

Highlights and key features of the study

- Global Friction Stir Welding Machines total production and demand, 2021-2032, (Units)
- Global Friction Stir Welding Machines total production value, 2021-2032, (USD Million)
- Global Friction Stir Welding Machines production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
- Global Friction Stir Welding Machines consumption by region & country, CAGR, 2021-2032 & (Units)
- U.S. VS China: Friction Stir Welding Machines domestic production, consumption, key domestic manufacturers and share
- Global Friction Stir Welding Machines production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

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

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

This report profiles key players in the global Friction Stir Welding Machines 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 Manufacturing Technology, Inc. (MTI), Bond Technologies, Inc., PAR Systems, LLC, Grenzebach Maschinenbau GmbH, KUKA Systems GmbH, FOOKE GmbH, HAGE Sondermaschinenbau GmbH, Stirtec GmbH, Komatsu NTC Ltd., Yamazaki Mazak Corporation, 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 Stir Welding Machines 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 Stir Welding Machines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Friction Stir Welding Machines Market, Segmentation by Type:

Gantry-Type Friction Stir Welding Machine

Robot-Based Friction Stir Welding System

Dedicated Bed-Type Friction Stir Welding Machine

Column Friction Stir Welding Machines

Cantilever Friction Stir Welding Machines

Horizontal Friction Stir Welding Machines

Global Friction Stir Welding Machines Market, Segmentation by Weld Morphology:

One-dimensional Friction Stir Welding Machine

Two-Dimensional-Path Friction Stir Welding Machine

Three-Dimensional-Path Friction Stir Welding Machine

Global Friction Stir Welding Machines Market, Segmentation by Maximum Axial Force:

Up to 30 kN Maximum Axial Force

Above 30 kN to 100 kN Maximum Axial Force

Above 100 kN Maximum Axial Force

Global Friction Stir Welding Machines Market, Segmentation by Application:

Automotive and E-Mobility

Aerospace, Space and Defense

Railway and Marine

Electronics, Thermal Management and General Industry

Companies Profiled:

Manufacturing Technology, Inc. (MTI)

Bond Technologies, Inc.

PAR Systems, LLC

Grenzebach Maschinenbau GmbH

KUKA Systems GmbH

FOOKE GmbH

HAGE Sondermaschinenbau GmbH

Stirtec GmbH

Komatsu NTC Ltd.

Yamazaki Mazak Corporation

ETA Technology Pvt. Ltd.

Aerospace Engineering Equipment (Suzhou) Co., Ltd.

Guangzhou Risong Intelligent Technology Holding Co., Ltd.

Anhui Wanyu Machinery Equipment Technology Co., Ltd.

Stirweld SAS

Beijing FSW Technology Co., Ltd.

TRA-C industrie

TRI Engineering Co., Ltd.

PTG Holroyd Precision

Lagun Machine Tools

Key Questions Answered:

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

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