

Global Friction Stir Welding Machines Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Friction Stir Welding Machines market size was valued at US\$ 273 million in 2025 and is forecast to a readjusted size of US\$ 428 million by 2032 with a CAGR of 6.7% during review period.

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 is a detailed and comprehensive analysis for global Friction Stir Welding Machines market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Friction Stir Welding Machines market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Friction Stir Welding Machines market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Friction Stir Welding Machines market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling

prices (K US\$/Unit), 2021-2032

Global Friction Stir Welding Machines market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Friction Stir Welding Machines

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Friction Stir Welding Machines market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Friction Stir Welding Machines market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment by Weld Morphology

One-dimensional Friction Stir Welding Machine

Two-Dimensional-Path Friction Stir Welding Machine

Three-Dimensional-Path Friction Stir Welding Machine

Market segment 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

Market segment by Application

Automotive and E-Mobility

Aerospace, Space and Defense

Railway and Marine

Electronics, Thermal Management and General Industry

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Friction Stir Welding Machines product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Friction Stir Welding Machines, with price, sales quantity, revenue, and global market share of Friction Stir Welding Machines from 2021 to 2026.

Chapter 3, the Friction Stir Welding Machines competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Friction Stir Welding Machines breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with

sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Friction Stir Welding Machines market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Friction Stir Welding Machines.

Chapter 14 and 15, to describe Friction Stir Welding Machines sales channel, distributors, customers, research findings and conclusion.

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