

Global Friction Stir Welding Machines Market Growth 2026-2032

<https://marketpublishers.com/r/GF5A30333E7FEN.html>

Date: July 2026

Pages: 133

Price: US\$ 3,660.00 (Single User License)

ID: GF5A30333E7FEN

Abstracts

The global Friction Stir Welding Machines market size is predicted to grow from US\$ 259 million in 2025 to US\$ 417 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Friction Stir Welding Machines Industry Forecast" looks at past sales and reviews total world Friction Stir Welding Machines sales in 2025, providing a comprehensive analysis by region and market sector of projected Friction Stir Welding Machines sales for 2026 through 2032. With Friction Stir Welding Machines sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Friction Stir Welding Machines industry.

This Insight Report provides a comprehensive analysis of the global Friction Stir Welding Machines landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Friction Stir Welding Machines portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Friction Stir Welding Machines market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Friction Stir Welding Machines and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Friction Stir Welding Machines.

This report presents a comprehensive overview, market shares, and growth opportunities of Friction Stir Welding Machines market by product type, application, key manufacturers and key regions and countries.

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

Segmentation by Weld Morphology:

One-dimensional Friction Stir Welding Machine

Two-Dimensional-Path Friction Stir Welding Machine

Three-Dimensional-Path Friction Stir Welding Machine

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

Segmentation by Application:

Automotive and E-Mobility

Aerospace, Space and Defense

Railway and Marine

Electronics, Thermal Management and General Industry

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Friction Stir Welding Machines market?

What factors are driving Friction Stir Welding Machines market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Friction Stir Welding Machines market opportunities vary by end market size?

How does Friction Stir Welding Machines break out by Type, by Application?

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