

# Global Friction Stir Welding (FSW) Machine Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Friction Stir Welding (FSW) Machine market size will reach 287.32 Million USD in 2025 and is projected to reach 427.20 Million USD by 2032, with a CAGR of 5.83% (2025-2032). Notably, the China Friction Stir Welding (FSW) Machine market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

A Friction Stir Welding (FSW) machine is a specialized piece of equipment designed for the friction stir welding process, which is a solid-state welding technique used in joining materials, particularly metals. Unlike traditional welding methods that involve melting the materials, FSW operates at a lower temperature, below the melting point, utilizing a rotating, non-consumable tool to generate friction and heat. The FSW machine consists of a spindle that houses the rotating tool, a workpiece-clamping mechanism, and precise controls for tool movement. The rotating tool is plunged into the joint between two workpieces, creating a plasticized region that is then stirred by the tool to form a strong, solid-state weld. FSW is valued for its ability to join materials with different compositions and thicknesses while minimizing distortion and preserving the material properties. FSW machines are used in various industries, including aerospace, automotive, and shipbuilding, where high-strength, high-quality welds are essential.

The major global manufacturers of Friction Stir Welding (FSW) Machine include

Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Beijing FSW, FOOKE GmbH, PaR Systems, General Tool Company, Sooncable, Aerospace Engineering Equipment, HAGE Sondermaschinenbau GmbH, Stirtec GmbH, Hitachi, PTG, Mazak, BTI, Jinfeng, Gatwick, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Friction Stir Welding (FSW) Machine. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Friction Stir Welding (FSW) Machine market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Friction Stir Welding (FSW) Machine market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Friction Stir Welding (FSW) Machine industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Friction Stir Welding (FSW) Machine Include:

Grenzebach Maschinenbau GmbH

Nova-Tech Engineering

Beijing FSW

FOOKE GmbH

PaR Systems

General Tool Company

Sooncable

Aerospace Engineering Equipment

HAGE Sondermaschinenbau GmbH

Stirtec GmbH

Hitachi

PTG

Mazak

BTI

Jinfeng

Gatwick

Friction Stir Welding (FSW) Machine Product Segment Include:

Desktop Equipment

Gantry Equipment

Others

Friction Stir Welding (FSW) Machine Product Application Include:

Aerospace

Automotive

Shipbuilding

Railways

Others

## **Chapter Scope**

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