

Global Friction Stir Welding (FSW) Machine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Friction Stir Welding (FSW) Machine market size was valued at US\$ 203 million in 2024 and is forecast to a readjusted size of USD 272 million by 2031 with a CAGR of 4.3% during review period.

Friction stir welding (FSW) is a solid-state joining process that uses a non-consumable tool to join two facing workpieces without melting the workpiece material. Heat is generated by friction between the rotating tool and the workpiece material, which leads to a softened region near the FSW tool.

Global key manufacturers of friction stir welding (FSW) machine include Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Beijing FSW, FOOKE GmbH, PaR Systems, etc. The top five players hold a share around 43%. Europe is the largest market, has a share about 35%, followed by Asia-Pacific and North America, with share 31% and 27%, separately.

This report is a detailed and comprehensive analysis for global Friction Stir Welding (FSW) Machine 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 (FSW) Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (K USD/Unit), 2020-2031

Global Friction Stir Welding (FSW) Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (K USD/Unit), 2020-2031

Global Friction Stir Welding (FSW) Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (K USD/Unit), 2020-2031

Global Friction Stir Welding (FSW) Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Unit), and ASP (K USD/Unit), 2020-2025

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 (FSW) Machine
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Friction Stir Welding (FSW) Machine 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 Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Beijing FSW, FOOKE GmbH, PaR Systems, Aerospace Engineering Equipment, PTG, General Tool Company, Sooncable, HAGE Sondermaschinenbau GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Friction Stir Welding (FSW) Machine market is split by Type and by Application. For the period 2020-2031, 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

Desktop Equipment

Gantry Equipment

Market segment by Application

Aerospace and Defence Industry

Automotive

Shipbuilding

General Machine Manufacturing

Major players covered

Grenzebach Maschinenbau GmbH

Nova-Tech Engineering

Beijing FSW

FOOKE GmbH

PaR Systems

Aerospace Engineering Equipment

PTG

General Tool Company

Sooncable

HAGE Sondermaschinenbau GmbH

Stirtec GmbH

Hitachi

BTI

Mazak

Jinfeng

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 (FSW) Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Friction Stir Welding (FSW) Machine, with price, sales quantity, revenue, and global market share of Friction Stir Welding (FSW) Machine from 2020 to 2025.

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

Chapter 4, the Friction Stir Welding (FSW) Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Friction Stir Welding (FSW) Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 (FSW) Machine.

Chapter 14 and 15, to describe Friction Stir Welding (FSW) Machine sales channel, distributors, customers, research findings and conclusion.

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