

Global Friction Stir Welding (FSW) Machines Market Growth 2025-2031

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Abstracts

The global Friction Stir Welding (FSW) Machines market size is predicted to grow from US\$ 189 million in 2025 to US\$ 236 million in 2031; it is expected to grow at a CAGR of 3.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

Segment by Type, the Friction Stir Welding (FSW) Machine can be split into Gantry Equipment and Desktop Equipment. In 2019, about 70% of global Friction Stir Welding (FSW) Machine market was taken up by Desktop Equipment, which makes this segment the larger part of these two types.

The Friction Stir Welding (FSW) Machine market can be sub-segmented into several major Application, like Aerospace and Defence Industry, Automotive, General Machine Manufacturing, etc. The largest segment is Automotive, with a market share of over 9% in 2019, while General Machine Manufacturing is listed below with over 8% of global Friction Stie Welding (FSW) Machine market.

Several key manufacturers in global Friction Stir Welding (FSW) Machine market are Nova-Tech Engineering, Grenzebach Maschinenbau GmbH, Beijing FSW, Sooncable

and Aerospace Engineering Equipment etc.

LP Information, Inc. (LPI) ' newest research report, the "Friction Stir Welding (FSW) Machines Industry Forecast" looks at past sales and reviews total world Friction Stir Welding (FSW) Machines sales in 2024, providing a comprehensive analysis by region and market sector of projected Friction Stir Welding (FSW) Machines sales for 2025 through 2031. With Friction Stir Welding (FSW) 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 (FSW) Machines industry.

This Insight Report provides a comprehensive analysis of the global Friction Stir Welding (FSW) 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 (FSW) 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 (FSW) Machines market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Friction Stir Welding (FSW) 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 (FSW) Machines.

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

Segmentation by Type:

Conventional

CNC

Segmentation by Application:

Automotive

Railways

Shipbuilding

Aerospace

Others

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.

ESAB

Grenzebach Maschinenbau GmbH

Hitachi

PTG

Mazak Corporation

FOOKE GmbH

PaR Systems

Nitto Seiki

General Tool

Gatwick

Stirtec Gmbh

Bond Technologies

TRA-C industrie

U-Jin Tech

TWI Ltd

Beijing FSW

Key Questions Addressed in this Report

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

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

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

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

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

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