

Global Friction Stir Welding Tools Market Growth 2025-2031

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Abstracts

The global Friction Stir Welding Tools market size is predicted to grow from US\$ 276 million in 2025 to US\$ 385 million in 2031; it is expected to grow at a CAGR of 5.7% 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. While the tool is traversed along the joint line, it mechanically intermixes the two pieces of metal, and forges the hot and softened metal by the mechanical pressure, which is applied by the tool, much like joining clay, or dough. It is primarily used on wrought or extruded aluminium and particularly for structures which need very high weld strength.

United States market for Friction Stir Welding Tools is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Friction Stir Welding Tools is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Friction Stir Welding Tools is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Friction Stir Welding Tools players cover ESAB, Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Beijing FSW, FOOKE GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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

This Insight Report provides a comprehensive analysis of the global Friction Stir Welding Tools 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 Tools 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 Tools market.

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

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

Segmentation by Type:

Desktop Equipment

Gantry Equipment

Others

Segmentation by Application:

Aerospace

Automotive

Shipbuilding

Railways

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

Nova-Tech Engineering

Beijing FSW

FOOKE GmbH

PaR Systems

Nitto Seiki

General Tool Company

Sooncable

Gatwick

Stirtec GmbH

Hitachi

PTG

BTI

Valmet

Ekato

Xi'an Yonghua

Fluiten

James Walker

Huayang Seals

Huhnseal

Key Questions Addressed in this Report

What is the 10-year outlook for the global Friction Stir Welding Tools market?
What factors are driving Friction Stir Welding Tools market growth, globally and by

region?

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

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

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

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