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

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Abstracts

The global Robotic Friction Stir Welding (FSW) Machine market size is predicted to grow from US$ 142 million in 2025 to US$ 191 million in 2031; it is expected to grow at a CAGR of 5.1% from 2025 to 2031.

A robotic friction stir welding (FSW) machine is a sophisticated piece of industrial equipment that combines the principles of friction stir welding with robotic automation. Friction stir welding is a solid-state joining process that uses a non-consumable rotating tool to generate frictional heat at the interface of two or more workpieces, causing them to plasticize and then forge together without melting. In a robotic FSW machine, a robotic arm is equipped with the friction stir welding tool. The robot's programming enables precise control over the movement of the tool along the joint line of the workpieces, allowing for accurate positioning, speed control, and application of the necessary force. This automation provides several advantages, including increased repeatability, consistency in weld quality, and the ability to perform complex weld geometries that may be difficult or impossible to achieve manually. The robotic FSW machine is highly versatile and can be used in various industries, such as aerospace, automotive, and shipbuilding, where high-strength, reliable welds are required for joining materials like aluminum, magnesium, and copper alloys.

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

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Europe market for Robotic Friction Stir Welding (FSW) Machine is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Robotic Friction Stir Welding (FSW) Machine players cover Grenzebach, Stirweld, KUKA, TRA-C industrie, Ruisong Intelligent Technology, 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 “Robotic Friction Stir Welding (FSW) Machine Industry Forecast” looks at past sales and reviews total world Robotic Friction Stir Welding (FSW) Machine sales in 2024, providing a comprehensive analysis by region and market sector of projected Robotic Friction Stir Welding (FSW) Machine sales for 2025 through 2031. With Robotic Friction Stir Welding (FSW) Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Robotic Friction Stir Welding (FSW) Machine industry.

This Insight Report provides a comprehensive analysis of the global Robotic Friction Stir Welding (FSW) Machine 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 Robotic Friction Stir Welding (FSW) Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Robotic Friction Stir Welding (FSW) Machine market.

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

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

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Segmentation by Type:

- Articulated - arm FSW Machines
- Gantry - type FSW Machines
- Others

Segmentation by Application:

- Aerospace Industry
- Automotive Industry
- Electronics Industry
- Shipbuilding Industry
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan

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- 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.

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Stirweld

KUKA

TRA-C industrie

Ruisong Intelligent Technology

Aerospace Engineering Equipment (Suzhou) Co., Ltd

Fanuc

ABB

Yaskawa

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robotic Friction Stir Welding (FSW) Machine market?
What factors are driving Robotic Friction Stir Welding (FSW) Machine market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Robotic Friction Stir Welding (FSW) Machine market opportunities vary by end market size?
How does Robotic Friction Stir Welding (FSW) Machine break out by Type, by Application?

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