

Global Rotary Friction Welding Market Growth 2025-2031

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Abstracts

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The global Rotary Friction Welding market size is predicted to grow from US\$ 609 million in 2025 to US\$ 860 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

Rotary Friction Welding is a solid-state process in which one part is rotated at a high speed, and then pressed against another part that is held stationary. The resulting friction heats the parts, causing them to forge together. 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 players of Rotary Friction Welding include Thompsons (KUKA), Beijing FSW, MTI, Sooncable, Grenzebach Maschinenbau GmbH, etc. The top five players hold a share about 42%. Asia Pacific is the largest market for Rotary Friction Welding, which has a share about 37%, followed by Europe and North America, with share 28% and 26%, separately. In terms of product type, Stir Welding as a Technology is the largest segment, occupied for a share of 50%. In terms of application, Automotive Manufacturing is the largest field with a share about 40%.

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

Welding sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Rotary Friction Welding industry.

This Insight Report provides a comprehensive analysis of the global Rotary Friction Welding 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 Rotary Friction Welding portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Rotary Friction Welding market.

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

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

Segmentation by Type:

Inertia Rotary Friction Welding

Direct Drive Rotary Friction Welding

Stir Welding as a Technology

Segmentation by Application:

Automotive Manufacturing

Cutting Tool Manufacturing

Aviation & Shipbuilding

Machine Componentsts

Hydraulic/Pneumatic Parts

Electric and Wiring Parts

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.

Thompson (KUKA)

MTI

Nitto Seiki

Izumi Machine

ETA

U-Jin Tech

Sakae Industries

YUAN YU

Jiangsu RCM

Grenzebach Maschinenbau GmbH

Nova-Tech Engineering

Beijing FSW

FOOKE GmbH

PaR Systems

General Tool Company

Sooncable

Aerospace Engineering Equipment

Stirweld

Stirtec

Key Questions Addressed in this Report

What is the 10-year outlook for the global Rotary Friction Welding market?

What factors are driving Rotary Friction Welding market growth, globally and by region?

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

How do Rotary Friction Welding market opportunities vary by end market size?

How does Rotary Friction Welding break out by Type, by Application?

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