

Global Metal Rotary Friction Welding Machine Market Growth 2026-2032

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Abstracts

The global Metal Rotary Friction Welding Machine market size is predicted to grow from US\$ 278 million in 2025 to US\$ 328 million in 2032; it is expected to grow at a CAGR of 2.5% from 2026 to 2032.

In 2024, global Metal Rotary Friction Welding production reached approximately 451 units, with an average global market price of around 608K US\$/Unit. 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.

Core driving factors

Lightweighting of new energy vehicles: The demand for components such as battery trays and motor housings has soared, and it is expected that the proportion of the new energy sector will exceed 40% by 2030.

High-precision demands in aerospace: The welding strength of titanium alloy - carbon fiber dissimilar materials needs to reach over 95% of the base material, promoting the procurement of high-end equipment.

Green manufacturing policy: The EU REACH regulation and China's 'dual carbon' goals require that equipment energy efficiency be improved by more than 30%, and smoke and dust emissions be lower than 5mg/m³.

Intelligentization and automation

The penetration rate of the Industrial Internet of Things (IIoT) will increase from 18% in 2023 to 45% in 2030, achieving real-time monitoring of welding parameters and AI process optimization.

Robot integration technology is accelerating its application. For instance, KUKA's intelligent welding system can dynamically adjust the path, increasing the pass rate to 99.9%.

Innovation in materials and processes

High-entropy oxides (such as Co-Mn-Fe-Ni-Zn-O) used in stirring heads extend their service life by 50%.

The laser-friction welding composite technology has broken through the bottleneck of aluminum alloy welding, increasing efficiency by 40%.

Challenges and Risks

Technical barriers: The welding strength of composite materials is insufficient, and the heat resistance of high-temperature alloy molds needs to exceed 2000?.

Policy risks: Stricter environmental regulations may increase the cost of equipment renovation, such as the impact of the EU carbon tariff on exports.

LP Information, Inc. (LPI) ' newest research report, the "Metal Rotary Friction Welding Machine Industry Forecast" looks at past sales and reviews total world Metal Rotary Friction Welding Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected Metal Rotary Friction Welding Machine sales for 2026 through 2032. With Metal Rotary Friction Welding Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metal Rotary Friction Welding Machine industry.

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

market.

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

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

Segmentation by Type:

Inertia Rotary Friction Welding

Direct Drive Rotary Friction Welding

Segmentation by Application:

Automotive Manufacturing

Cutting Tool Manufacturing

Aviation & Shipbuilding

Machine Components

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

Key Questions Addressed in this Report

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

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

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

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

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

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