

Global Friction Welding Machine Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Friction Welding Machine market size will reach 611.70 Million USD in 2025 and is projected to reach 765.19 Million USD by 2032, with a CAGR of 3.25% (2025-2032). Notably, the China Friction Welding Machine market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A friction welding machine is a specialized piece of equipment designed for the process of friction welding, a solid-state welding technique that creates a strong bond between two materials through the application of heat and pressure. Friction welding machines typically consist of two components to be joined, each held in a chuck or fixture. One component is rotated against the other, generating heat through friction at the interface. Once the desired temperature is reached, the rotation stops, and the components are forced together under pressure to create a solid-state weld. This process is efficient, producing high-quality welds without the need for filler materials or melting the workpieces. Friction welding machines are used in various industries, including automotive, aerospace, and manufacturing, where they contribute to the production of robust and durable welded joints in components like shafts, rods, and other cylindrical or symmetric parts.

The major global manufacturers of Friction Welding Machine include KUKA, Izumi Machine, Branson (Emerson), MTI, Grenzebach Maschinenbau GmbH, Nova-Tech

Engineering, Bielomatik, FOOKE GmbH, PaR Systems, Aerospace Engineering Equipment, Crest Group, Beijing FSW, Changchun CNC Machine, General Tool Company, Sooncable, Dukane, ETA, Jiangsu Ruicheng Machinery, Guangzhou Risong, Sakae Industries, Nitto Seiki, U-Jin Tech, Gatwick, Keber, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Friction Welding Machine. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Friction Welding Machine market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Friction Welding Machine market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Friction Welding Machine industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Friction Welding Machine Include:

KUKA

Izumi Machine

Branson (Emerson)

MTI

Grenzebach Maschinenbau GmbH

Nova-Tech Engineering

Bielomatik

FOOKE GmbH

PaR Systems

Aerospace Engineering Equipment

Crest Group

Beijing FSW

Changchun CNC Machine

General Tool Company

Sooncable

Dukane

ETA

Jiangsu Ruicheng Machinery

Guangzhou Risong

Sakae Industries

Nitto Seiki

U-Jin Tech

Gatwick

Keber

Friction Welding Machine Product Segment Include:

Linear Friction Welding

Rotary Friction Welding

Stir Friction Welding

Friction Welding Machine Product Application Include:

Aerospace and Defence

Automotive

Shipbuilding

General Machine Manufacturing

Others

Chapter Scope

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