

Global Friction Stir Welding Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Friction Stir Welding Equipment market size is expected to reach \$ 651 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2024, global FSW Machine production capacity is 3,000 units, with production reached approximately 2,300 units, with an average global market price of around US\$ 173,000 per unit. The market gross margin is mainly 30%-40%.

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.

The friction stir welding (FSW) machine industry chain can be divided into three main segments: upstream key component manufacturing, midstream equipment integration and system control, and downstream application industries. The upstream segment mainly includes high-performance servo motors, spindle systems, hydraulic/electro-hydraulic drive units, welding head and stirring pin materials (PCBN, W-Re, Si?N?, etc.), high-rigidity machine tool structural components, and sensing modules. Representative companies include Bosch Rexroth, THK, Moog, Schunk, and Kennametal. The midstream segment is handled by welding machine system integrators, who integrate mechanical, hydraulic, electrical, force control, and software

algorithms to form complete FSW equipment and automated production lines. Major manufacturers include PaR Systems, Stirtec, HAGE, FOOKE, Bond Technologies, Komatsu NTC, and domestic companies such as Aerospace Engineering Equipment (Suzhou), Ruison Technology, FWS, and Ningbo Youzhi. Downstream application areas cover aerospace (rocket fuel tanks, wings), rail transportation (aluminum alloy car bodies), shipbuilding, automobiles (battery trays, chassis components), and new energy equipment. The overall industry chain is characterized by 'dual-driven materials and control technologies', and future development will focus on multi-axis intelligence, dual-head/adaptive welding heads, high-temperature alloy applications and integrated automatic detection.

Global key manufacturers of friction stir welding (FSW) machine include Grenzebach Maschinenbau GmbH, Nova-Tech Engineering, Beijing FSW, FOOKE GmbH, PaR Systems, etc. The top five players hold a share around 43%.

In recent years, with the surge in demand for lightweight materials (aluminum/magnesium alloys, carbon fiber composites) in new energy (electric vehicles, aviation), rail transportation and other fields, FSW has become the preferred technology for welding lightweight structural parts due to its characteristics of no fusion welding defects and high joint strength. Stir friction welding is increasingly used in battery system-related components, motor housings and electronic control boxes, body frames and longitudinal beams, chassis, etc.

Hydrogen fuel storage tanks and hydrogen pipelines have extremely high requirements for welding quality, requiring both high strength of the weld to withstand high-pressure environments and excellent corrosion resistance of the material to resist hydrogen penetration and environmental erosion. In this context, stir friction welding (FSW) has become a key technology to promote the application of aluminum alloys in the field of pressure resistance and corrosion resistance with its unique advantages.

The development of FSW will be deeply bound to the needs of high value-added industries. Core technology breakthroughs and collaborative innovation across the entire industry chain are the key to its large-scale application. Driven by both policy support (such as the 'dual carbon' goals) and market demand, FSW is expected to become one of the core welding technologies in the field of high-end manufacturing?

This report studies the global Friction Stir Welding Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Friction Stir Welding Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Friction Stir Welding Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Friction Stir Welding Equipment total production and demand, 2021-2032, (K Units)

Global Friction Stir Welding Equipment total production value, 2021-2032, (USD Million)

Global Friction Stir Welding Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Friction Stir Welding Equipment consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Friction Stir Welding Equipment domestic production, consumption, key domestic manufacturers and share

Global Friction Stir Welding Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Friction Stir Welding Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Friction Stir Welding Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Friction Stir Welding Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aerospace Engineering Equipment (Suzhou) Co., Ltd., Beijing Shijiabo Technology Group Co., Ltd., Grenzebach Maschinenbau GmbH, Foswei, Ningbo Youzhi Machinery Technology Co., Ltd., FOOKE GmbH, Anhui Wanyu Machinery Equipment Technology Co., Ltd., PaR Systems, LLC, Hebei Tailizhen Special Technology Co., Ltd., Beijing Safe Foster Technology Co., Ltd.,

etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Friction Stir Welding Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Friction Stir Welding Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Friction Stir Welding Equipment Market, Segmentation by Type:

Robotic Welding Machine

Benchtop Welding Machine

Gantry Welding Machine

Global Friction Stir Welding Equipment Market, Segmentation by Mode:

Semi-Automatic

Fully-Automatic

Global Friction Stir Welding Equipment Market, Segmentation by Head Number:

Single-Head FSW Machine

Double-Head FSW Machine

Global Friction Stir Welding Equipment Market, Segmentation by Application:

Aerospace

Automotive

Shipbuilding

Railways

Others

Companies Profiled:

Aerospace Engineering Equipment (Suzhou) Co., Ltd.

Beijing Shijiabo Technology Group Co., Ltd.

Grenzebach Maschinenbau GmbH

Foswei

Ningbo Youzhi Machinery Technology Co., Ltd.

FOOKE GmbH

Anhui Wanyu Machinery Equipment Technology Co., Ltd.

PaR Systems, LLC

Hebei Tailizhen Special Technology Co., Ltd.

Beijing Safe Foster Technology Co., Ltd.

PTG Holroyd Precision Ltd.

Bond Technologies, Inc.

HAGE Sondermaschinenbau GmbH

Stirtec GmbH

Komatsu NTC Ltd.

Hebei Daheng Co., Ltd.

Yamazaki Mazak Corporation

Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd.

Risong Technology Co., Ltd.

Dongguan Songzhi Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Friction Stir Welding Equipment market?
2. What is the demand of the global Friction Stir Welding Equipment market?

3. What is the year over year growth of the global Friction Stir Welding Equipment market?
4. What is the production and production value of the global Friction Stir Welding Equipment market?
5. Who are the key producers in the global Friction Stir Welding Equipment market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Friction Stir Welding Equipment Introduction
- 1.2 World Friction Stir Welding Equipment Supply & Forecast
 - 1.2.1 World Friction Stir Welding Equipment Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Friction Stir Welding Equipment Production (2021-2032)
 - 1.2.3 World Friction Stir Welding Equipment Pricing Trends (2021-2032)
- 1.3 World Friction Stir Welding Equipment Production by Region (Based on Production Site)
 - 1.3.1 World Friction Stir Welding Equipment Production Value by Region (2021-2032)
 - 1.3.2 World Friction Stir Welding Equipment Production by Region (2021-2032)
 - 1.3.3 World Friction Stir Welding Equipment Average Price by Region (2021-2032)
 - 1.3.4 North America Friction Stir Welding Equipment Production (2021-2032)
 - 1.3.5 Europe Friction Stir Welding Equipment Production (2021-2032)
 - 1.3.6 China Friction Stir Welding Equipment Production (2021-2032)
 - 1.3.7 Japan Friction Stir Welding Equipment Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Friction Stir Welding Equipment Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Friction Stir Welding Equipment Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Friction Stir Welding Equipment Demand (2021-2032)
- 2.2 World Friction Stir Welding Equipment Consumption by Region
 - 2.2.1 World Friction Stir Welding Equipment Consumption by Region (2021-2026)
 - 2.2.2 World Friction Stir Welding Equipment Consumption Forecast by Region (2027-2032)
- 2.3 United States Friction Stir Welding Equipment Consumption (2021-2032)
- 2.4 China Friction Stir Welding Equipment Consumption (2021-2032)
- 2.5 Europe Friction Stir Welding Equipment Consumption (2021-2032)
- 2.6 Japan Friction Stir Welding Equipment Consumption (2021-2032)
- 2.7 South Korea Friction Stir Welding Equipment Consumption (2021-2032)
- 2.8 ASEAN Friction Stir Welding Equipment Consumption (2021-2032)
- 2.9 India Friction Stir Welding Equipment Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Friction Stir Welding Equipment Production Value by Manufacturer (2021-2026)
- 3.2 World Friction Stir Welding Equipment Production by Manufacturer (2021-2026)
- 3.3 World Friction Stir Welding Equipment Average Price by Manufacturer (2021-2026)
- 3.4 Friction Stir Welding Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Friction Stir Welding Equipment Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Friction Stir Welding Equipment in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Friction Stir Welding Equipment in 2025
- 3.6 Friction Stir Welding Equipment Market: Overall Company Footprint Analysis
 - 3.6.1 Friction Stir Welding Equipment Market: Region Footprint
 - 3.6.2 Friction Stir Welding Equipment Market: Company Product Type Footprint
 - 3.6.3 Friction Stir Welding Equipment Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Friction Stir Welding Equipment Production Value Comparison
 - 4.1.1 United States VS China: Friction Stir Welding Equipment Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Friction Stir Welding Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Friction Stir Welding Equipment Production Comparison
 - 4.2.1 United States VS China: Friction Stir Welding Equipment Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Friction Stir Welding Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Friction Stir Welding Equipment Consumption Comparison
 - 4.3.1 United States VS China: Friction Stir Welding Equipment Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Friction Stir Welding Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Friction Stir Welding Equipment Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Friction Stir Welding Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Friction Stir Welding Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers Friction Stir Welding Equipment Production (2021-2026)

4.5 China Based Friction Stir Welding Equipment Manufacturers and Market Share

4.5.1 China Based Friction Stir Welding Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Friction Stir Welding Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers Friction Stir Welding Equipment Production (2021-2026)

4.6 Rest of World Based Friction Stir Welding Equipment Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Friction Stir Welding Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Friction Stir Welding Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Friction Stir Welding Equipment Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Friction Stir Welding Equipment Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Robotic Welding Machine

5.2.2 Benchtop Welding Machine

5.2.3 Gantry Welding Machine

5.3 Market Segment by Type

5.3.1 World Friction Stir Welding Equipment Production by Type (2021-2032)

5.3.2 World Friction Stir Welding Equipment Production Value by Type (2021-2032)

5.3.3 World Friction Stir Welding Equipment Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MODE

6.1 World Friction Stir Welding Equipment Market Size Overview by Mode: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Mode

6.2.1 Semi-Automatic

6.2.2 Fully-Automatic

6.3 Market Segment by Mode

6.3.1 World Friction Stir Welding Equipment Production by Mode (2021-2032)

6.3.2 World Friction Stir Welding Equipment Production Value by Mode (2021-2032)

6.3.3 World Friction Stir Welding Equipment Average Price by Mode (2021-2032)

7 MARKET ANALYSIS BY HEAD NUMBER

7.1 World Friction Stir Welding Equipment Market Size Overview by Head Number: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Head Number

7.2.1 Single-Head FSW Machine

7.2.2 Double-Head FSW Machine

7.3 Market Segment by Head Number

7.3.1 World Friction Stir Welding Equipment Production by Head Number (2021-2032)

7.3.2 World Friction Stir Welding Equipment Production Value by Head Number (2021-2032)

7.3.3 World Friction Stir Welding Equipment Average Price by Head Number (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Friction Stir Welding Equipment Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace

8.2.2 Automotive

8.2.3 Shipbuilding

8.2.4 Railways

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Friction Stir Welding Equipment Production by Application (2021-2032)

8.3.2 World Friction Stir Welding Equipment Production Value by Application (2021-2032)

8.3.3 World Friction Stir Welding Equipment Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Aerospace Engineering Equipment (Suzhou) Co., Ltd.

9.1.1 Aerospace Engineering Equipment (Suzhou) Co., Ltd. Details

9.1.2 Aerospace Engineering Equipment (Suzhou) Co., Ltd. Major Business

9.1.3 Aerospace Engineering Equipment (Suzhou) Co., Ltd. Friction Stir Welding Equipment Product and Services

9.1.4 Aerospace Engineering Equipment (Suzhou) Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Aerospace Engineering Equipment (Suzhou) Co., Ltd. Recent Developments/Updates

9.1.6 Aerospace Engineering Equipment (Suzhou) Co., Ltd. Competitive Strengths & Weaknesses

9.2 Beijing Shijiabo Technology Group Co., Ltd.

9.2.1 Beijing Shijiabo Technology Group Co., Ltd. Details

9.2.2 Beijing Shijiabo Technology Group Co., Ltd. Major Business

9.2.3 Beijing Shijiabo Technology Group Co., Ltd. Friction Stir Welding Equipment Product and Services

9.2.4 Beijing Shijiabo Technology Group Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Beijing Shijiabo Technology Group Co., Ltd. Recent Developments/Updates

9.2.6 Beijing Shijiabo Technology Group Co., Ltd. Competitive Strengths & Weaknesses

9.3 Grenzebach Maschinenbau GmbH

9.3.1 Grenzebach Maschinenbau GmbH Details

9.3.2 Grenzebach Maschinenbau GmbH Major Business

9.3.3 Grenzebach Maschinenbau GmbH Friction Stir Welding Equipment Product and Services

9.3.4 Grenzebach Maschinenbau GmbH Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Grenzebach Maschinenbau GmbH Recent Developments/Updates

9.3.6 Grenzebach Maschinenbau GmbH Competitive Strengths & Weaknesses

9.4 Foswei

9.4.1 Foswei Details

9.4.2 Foswei Major Business

9.4.3 Foswei Friction Stir Welding Equipment Product and Services

9.4.4 Foswei Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.4.5 Foswei Recent Developments/Updates
- 9.4.6 Foswei Competitive Strengths & Weaknesses
- 9.5 Ningbo Youzhi Machinery Technology Co., Ltd.
 - 9.5.1 Ningbo Youzhi Machinery Technology Co., Ltd. Details
 - 9.5.2 Ningbo Youzhi Machinery Technology Co., Ltd. Major Business
 - 9.5.3 Ningbo Youzhi Machinery Technology Co., Ltd. Friction Stir Welding Equipment Product and Services
 - 9.5.4 Ningbo Youzhi Machinery Technology Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Ningbo Youzhi Machinery Technology Co., Ltd. Recent Developments/Updates
 - 9.5.6 Ningbo Youzhi Machinery Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.6 FOOKE GmbH
 - 9.6.1 FOOKE GmbH Details
 - 9.6.2 FOOKE GmbH Major Business
 - 9.6.3 FOOKE GmbH Friction Stir Welding Equipment Product and Services
 - 9.6.4 FOOKE GmbH Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 FOOKE GmbH Recent Developments/Updates
 - 9.6.6 FOOKE GmbH Competitive Strengths & Weaknesses
- 9.7 Anhui Wanyu Machinery Equipment Technology Co., Ltd.
 - 9.7.1 Anhui Wanyu Machinery Equipment Technology Co., Ltd. Details
 - 9.7.2 Anhui Wanyu Machinery Equipment Technology Co., Ltd. Major Business
 - 9.7.3 Anhui Wanyu Machinery Equipment Technology Co., Ltd. Friction Stir Welding Equipment Product and Services
 - 9.7.4 Anhui Wanyu Machinery Equipment Technology Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Anhui Wanyu Machinery Equipment Technology Co., Ltd. Recent Developments/Updates
 - 9.7.6 Anhui Wanyu Machinery Equipment Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.8 PaR Systems, LLC
 - 9.8.1 PaR Systems, LLC Details
 - 9.8.2 PaR Systems, LLC Major Business
 - 9.8.3 PaR Systems, LLC Friction Stir Welding Equipment Product and Services
 - 9.8.4 PaR Systems, LLC Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 PaR Systems, LLC Recent Developments/Updates
 - 9.8.6 PaR Systems, LLC Competitive Strengths & Weaknesses

9.9 Hebei Tailizhen Special Technology Co., Ltd.

9.9.1 Hebei Tailizhen Special Technology Co., Ltd. Details

9.9.2 Hebei Tailizhen Special Technology Co., Ltd. Major Business

9.9.3 Hebei Tailizhen Special Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

9.9.4 Hebei Tailizhen Special Technology Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Hebei Tailizhen Special Technology Co., Ltd. Recent Developments/Updates

9.9.6 Hebei Tailizhen Special Technology Co., Ltd. Competitive Strengths & Weaknesses

9.10 Beijing Safe Foster Technology Co., Ltd.

9.10.1 Beijing Safe Foster Technology Co., Ltd. Details

9.10.2 Beijing Safe Foster Technology Co., Ltd. Major Business

9.10.3 Beijing Safe Foster Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

9.10.4 Beijing Safe Foster Technology Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Beijing Safe Foster Technology Co., Ltd. Recent Developments/Updates

9.10.6 Beijing Safe Foster Technology Co., Ltd. Competitive Strengths & Weaknesses

9.11 PTG Holroyd Precision Ltd.

9.11.1 PTG Holroyd Precision Ltd. Details

9.11.2 PTG Holroyd Precision Ltd. Major Business

9.11.3 PTG Holroyd Precision Ltd. Friction Stir Welding Equipment Product and Services

9.11.4 PTG Holroyd Precision Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 PTG Holroyd Precision Ltd. Recent Developments/Updates

9.11.6 PTG Holroyd Precision Ltd. Competitive Strengths & Weaknesses

9.12 Bond Technologies, Inc.

9.12.1 Bond Technologies, Inc. Details

9.12.2 Bond Technologies, Inc. Major Business

9.12.3 Bond Technologies, Inc. Friction Stir Welding Equipment Product and Services

9.12.4 Bond Technologies, Inc. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Bond Technologies, Inc. Recent Developments/Updates

9.12.6 Bond Technologies, Inc. Competitive Strengths & Weaknesses

9.13 HAGE Sondermaschinenbau GmbH

9.13.1 HAGE Sondermaschinenbau GmbH Details

9.13.2 HAGE Sondermaschinenbau GmbH Major Business

9.13.3 HAGE Sondermaschinenbau GmbH Friction Stir Welding Equipment Product and Services

9.13.4 HAGE Sondermaschinenbau GmbH Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 HAGE Sondermaschinenbau GmbH Recent Developments/Updates

9.13.6 HAGE Sondermaschinenbau GmbH Competitive Strengths & Weaknesses

9.14 Stirtec GmbH

9.14.1 Stirtec GmbH Details

9.14.2 Stirtec GmbH Major Business

9.14.3 Stirtec GmbH Friction Stir Welding Equipment Product and Services

9.14.4 Stirtec GmbH Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Stirtec GmbH Recent Developments/Updates

9.14.6 Stirtec GmbH Competitive Strengths & Weaknesses

9.15 Komatsu NTC Ltd.

9.15.1 Komatsu NTC Ltd. Details

9.15.2 Komatsu NTC Ltd. Major Business

9.15.3 Komatsu NTC Ltd. Friction Stir Welding Equipment Product and Services

9.15.4 Komatsu NTC Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Komatsu NTC Ltd. Recent Developments/Updates

9.15.6 Komatsu NTC Ltd. Competitive Strengths & Weaknesses

9.16 Hebei Daheng Co., Ltd.

9.16.1 Hebei Daheng Co., Ltd. Details

9.16.2 Hebei Daheng Co., Ltd. Major Business

9.16.3 Hebei Daheng Co., Ltd. Friction Stir Welding Equipment Product and Services

9.16.4 Hebei Daheng Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Hebei Daheng Co., Ltd. Recent Developments/Updates

9.16.6 Hebei Daheng Co., Ltd. Competitive Strengths & Weaknesses

9.17 Yamazaki Mazak Corporation

9.17.1 Yamazaki Mazak Corporation Details

9.17.2 Yamazaki Mazak Corporation Major Business

9.17.3 Yamazaki Mazak Corporation Friction Stir Welding Equipment Product and Services

9.17.4 Yamazaki Mazak Corporation Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Yamazaki Mazak Corporation Recent Developments/Updates

9.17.6 Yamazaki Mazak Corporation Competitive Strengths & Weaknesses

9.18 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd.

9.18.1 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Details

9.18.2 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Major Business

9.18.3 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Friction Stir Welding Equipment Product and Services

9.18.4 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Recent Developments/Updates

9.18.6 Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

9.19 Risong Technology Co., Ltd.

9.19.1 Risong Technology Co., Ltd. Details

9.19.2 Risong Technology Co., Ltd. Major Business

9.19.3 Risong Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

9.19.4 Risong Technology Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Risong Technology Co., Ltd. Recent Developments/Updates

9.19.6 Risong Technology Co., Ltd. Competitive Strengths & Weaknesses

9.20 Dongguan Songzhi Technology Co., Ltd.

9.20.1 Dongguan Songzhi Technology Co., Ltd. Details

9.20.2 Dongguan Songzhi Technology Co., Ltd. Major Business

9.20.3 Dongguan Songzhi Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

9.20.4 Dongguan Songzhi Technology Co., Ltd. Friction Stir Welding Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Dongguan Songzhi Technology Co., Ltd. Recent Developments/Updates

9.20.6 Dongguan Songzhi Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Friction Stir Welding Equipment Industry Chain

10.2 Friction Stir Welding Equipment Upstream Analysis

10.2.1 Friction Stir Welding Equipment Core Raw Materials

10.2.2 Main Manufacturers of Friction Stir Welding Equipment Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Friction Stir Welding Equipment Production Mode

10.6 Friction Stir Welding Equipment Procurement Model

10.7 Friction Stir Welding Equipment Industry Sales Model and Sales Channels

10.7.1 Friction Stir Welding Equipment Sales Model

10.7.2 Friction Stir Welding Equipment Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Friction Stir Welding Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Friction Stir Welding Equipment Production Value by Region (2021-2026) & (USD Million)

Table 3. World Friction Stir Welding Equipment Production Value by Region (2027-2032) & (USD Million)

Table 4. World Friction Stir Welding Equipment Production Value Market Share by Region (2021-2026)

Table 5. World Friction Stir Welding Equipment Production Value Market Share by Region (2027-2032)

Table 6. World Friction Stir Welding Equipment Production by Region (2021-2026) & (K Units)

Table 7. World Friction Stir Welding Equipment Production by Region (2027-2032) & (K Units)

Table 8. World Friction Stir Welding Equipment Production Market Share by Region (2021-2026)

Table 9. World Friction Stir Welding Equipment Production Market Share by Region (2027-2032)

Table 10. World Friction Stir Welding Equipment Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World Friction Stir Welding Equipment Average Price by Region (2027-2032) & (USD/Unit)

Table 12. Friction Stir Welding Equipment Major Market Trends

Table 13. World Friction Stir Welding Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Friction Stir Welding Equipment Consumption by Region (2021-2026) & (K Units)

Table 15. World Friction Stir Welding Equipment Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Friction Stir Welding Equipment Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Friction Stir Welding Equipment Producers in 2025

Table 18. World Friction Stir Welding Equipment Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Friction Stir Welding Equipment Producers in 2025

Table 20. World Friction Stir Welding Equipment Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global Friction Stir Welding Equipment Company Evaluation Quadrant

Table 22. World Friction Stir Welding Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Friction Stir Welding Equipment Production Site of Key Manufacturer

Table 24. Friction Stir Welding Equipment Market: Company Product Type Footprint

Table 25. Friction Stir Welding Equipment Market: Company Product Application Footprint

Table 26. Friction Stir Welding Equipment Competitive Factors

Table 27. Friction Stir Welding Equipment New Entrant and Capacity Expansion Plans

Table 28. Friction Stir Welding Equipment Mergers & Acquisitions Activity

Table 29. United States VS China Friction Stir Welding Equipment Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Friction Stir Welding Equipment Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Friction Stir Welding Equipment Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Friction Stir Welding Equipment Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Friction Stir Welding Equipment Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Friction Stir Welding Equipment Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Friction Stir Welding Equipment Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Friction Stir Welding Equipment Production Market Share (2021-2026)

Table 37. China Based Friction Stir Welding Equipment Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Friction Stir Welding Equipment Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Friction Stir Welding Equipment Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Friction Stir Welding Equipment Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Friction Stir Welding Equipment Production Market Share (2021-2026)

Table 42. Rest of World Based Friction Stir Welding Equipment Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Friction Stir Welding Equipment Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Friction Stir Welding Equipment Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Friction Stir Welding Equipment Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Friction Stir Welding Equipment Production Market Share (2021-2026)

Table 47. World Friction Stir Welding Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Friction Stir Welding Equipment Production by Type (2021-2026) & (K Units)

Table 49. World Friction Stir Welding Equipment Production by Type (2027-2032) & (K Units)

Table 50. World Friction Stir Welding Equipment Production Value by Type (2021-2026) & (USD Million)

Table 51. World Friction Stir Welding Equipment Production Value by Type (2027-2032) & (USD Million)

Table 52. World Friction Stir Welding Equipment Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Friction Stir Welding Equipment Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Friction Stir Welding Equipment Production Value by Mode, (USD Million), 2021 & 2025 & 2032

Table 55. World Friction Stir Welding Equipment Production by Mode (2021-2026) & (K Units)

Table 56. World Friction Stir Welding Equipment Production by Mode (2027-2032) & (K Units)

Table 57. World Friction Stir Welding Equipment Production Value by Mode (2021-2026) & (USD Million)

Table 58. World Friction Stir Welding Equipment Production Value by Mode (2027-2032) & (USD Million)

Table 59. World Friction Stir Welding Equipment Average Price by Mode (2021-2026) & (USD/Unit)

Table 60. World Friction Stir Welding Equipment Average Price by Mode (2027-2032) &

(USD/Unit)

Table 61. World Friction Stir Welding Equipment Production Value by Head Number, (USD Million), 2021 & 2025 & 2032

Table 62. World Friction Stir Welding Equipment Production by Head Number (2021-2026) & (K Units)

Table 63. World Friction Stir Welding Equipment Production by Head Number (2027-2032) & (K Units)

Table 64. World Friction Stir Welding Equipment Production Value by Head Number (2021-2026) & (USD Million)

Table 65. World Friction Stir Welding Equipment Production Value by Head Number (2027-2032) & (USD Million)

Table 66. World Friction Stir Welding Equipment Average Price by Head Number (2021-2026) & (USD/Unit)

Table 67. World Friction Stir Welding Equipment Average Price by Head Number (2027-2032) & (USD/Unit)

Table 68. World Friction Stir Welding Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Friction Stir Welding Equipment Production by Application (2021-2026) & (K Units)

Table 70. World Friction Stir Welding Equipment Production by Application (2027-2032) & (K Units)

Table 71. World Friction Stir Welding Equipment Production Value by Application (2021-2026) & (USD Million)

Table 72. World Friction Stir Welding Equipment Production Value by Application (2027-2032) & (USD Million)

Table 73. World Friction Stir Welding Equipment Average Price by Application (2021-2026) & (USD/Unit)

Table 74. World Friction Stir Welding Equipment Average Price by Application (2027-2032) & (USD/Unit)

Table 75. Aerospace Engineering Equipment (Suzhou) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Aerospace Engineering Equipment (Suzhou) Co., Ltd. Major Business

Table 77. Aerospace Engineering Equipment (Suzhou) Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 78. Aerospace Engineering Equipment (Suzhou) Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Aerospace Engineering Equipment (Suzhou) Co., Ltd. Recent Developments/Updates

- Table 80. Aerospace Engineering Equipment (Suzhou) Co., Ltd. Competitive Strengths & Weaknesses
- Table 81. Beijing Shijiabo Technology Group Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 82. Beijing Shijiabo Technology Group Co., Ltd. Major Business
- Table 83. Beijing Shijiabo Technology Group Co., Ltd. Friction Stir Welding Equipment Product and Services
- Table 84. Beijing Shijiabo Technology Group Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Beijing Shijiabo Technology Group Co., Ltd. Recent Developments/Updates
- Table 86. Beijing Shijiabo Technology Group Co., Ltd. Competitive Strengths & Weaknesses
- Table 87. Grenzebach Maschinenbau GmbH Basic Information, Manufacturing Base and Competitors
- Table 88. Grenzebach Maschinenbau GmbH Major Business
- Table 89. Grenzebach Maschinenbau GmbH Friction Stir Welding Equipment Product and Services
- Table 90. Grenzebach Maschinenbau GmbH Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Grenzebach Maschinenbau GmbH Recent Developments/Updates
- Table 92. Grenzebach Maschinenbau GmbH Competitive Strengths & Weaknesses
- Table 93. Foswei Basic Information, Manufacturing Base and Competitors
- Table 94. Foswei Major Business
- Table 95. Foswei Friction Stir Welding Equipment Product and Services
- Table 96. Foswei Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Foswei Recent Developments/Updates
- Table 98. Foswei Competitive Strengths & Weaknesses
- Table 99. Ningbo Youzhi Machinery Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 100. Ningbo Youzhi Machinery Technology Co., Ltd. Major Business
- Table 101. Ningbo Youzhi Machinery Technology Co., Ltd. Friction Stir Welding Equipment Product and Services
- Table 102. Ningbo Youzhi Machinery Technology Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Ningbo Youzhi Machinery Technology Co., Ltd. Recent Developments/Updates

Table 104. Ningbo Youzhi Machinery Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 105. FOOKE GmbH Basic Information, Manufacturing Base and Competitors

Table 106. FOOKE GmbH Major Business

Table 107. FOOKE GmbH Friction Stir Welding Equipment Product and Services

Table 108. FOOKE GmbH Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. FOOKE GmbH Recent Developments/Updates

Table 110. FOOKE GmbH Competitive Strengths & Weaknesses

Table 111. Anhui Wanyu Machinery Equipment Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Anhui Wanyu Machinery Equipment Technology Co., Ltd. Major Business

Table 113. Anhui Wanyu Machinery Equipment Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 114. Anhui Wanyu Machinery Equipment Technology Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Anhui Wanyu Machinery Equipment Technology Co., Ltd. Recent Developments/Updates

Table 116. Anhui Wanyu Machinery Equipment Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 117. PaR Systems, LLC Basic Information, Manufacturing Base and Competitors

Table 118. PaR Systems, LLC Major Business

Table 119. PaR Systems, LLC Friction Stir Welding Equipment Product and Services

Table 120. PaR Systems, LLC Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. PaR Systems, LLC Recent Developments/Updates

Table 122. PaR Systems, LLC Competitive Strengths & Weaknesses

Table 123. Hebei Tailizhen Special Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Hebei Tailizhen Special Technology Co., Ltd. Major Business

Table 125. Hebei Tailizhen Special Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 126. Hebei Tailizhen Special Technology Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million),

Gross Margin and Market Share (2021-2026)

Table 127. Hebei Tailizhen Special Technology Co., Ltd. Recent Developments/Updates

Table 128. Hebei Tailizhen Special Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Beijing Safe Foster Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Beijing Safe Foster Technology Co., Ltd. Major Business

Table 131. Beijing Safe Foster Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 132. Beijing Safe Foster Technology Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Beijing Safe Foster Technology Co., Ltd. Recent Developments/Updates

Table 134. Beijing Safe Foster Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 135. PTG Holroyd Precision Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. PTG Holroyd Precision Ltd. Major Business

Table 137. PTG Holroyd Precision Ltd. Friction Stir Welding Equipment Product and Services

Table 138. PTG Holroyd Precision Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. PTG Holroyd Precision Ltd. Recent Developments/Updates

Table 140. PTG Holroyd Precision Ltd. Competitive Strengths & Weaknesses

Table 141. Bond Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 142. Bond Technologies, Inc. Major Business

Table 143. Bond Technologies, Inc. Friction Stir Welding Equipment Product and Services

Table 144. Bond Technologies, Inc. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Bond Technologies, Inc. Recent Developments/Updates

Table 146. Bond Technologies, Inc. Competitive Strengths & Weaknesses

Table 147. HAGE Sondermaschinenbau GmbH Basic Information, Manufacturing Base and Competitors

Table 148. HAGE Sondermaschinenbau GmbH Major Business

Table 149. HAGE Sondermaschinenbau GmbH Friction Stir Welding Equipment Product and Services

Table 150. HAGE Sondermaschinenbau GmbH Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. HAGE Sondermaschinenbau GmbH Recent Developments/Updates

Table 152. HAGE Sondermaschinenbau GmbH Competitive Strengths & Weaknesses

Table 153. Stirtec GmbH Basic Information, Manufacturing Base and Competitors

Table 154. Stirtec GmbH Major Business

Table 155. Stirtec GmbH Friction Stir Welding Equipment Product and Services

Table 156. Stirtec GmbH Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Stirtec GmbH Recent Developments/Updates

Table 158. Stirtec GmbH Competitive Strengths & Weaknesses

Table 159. Komatsu NTC Ltd. Basic Information, Manufacturing Base and Competitors

Table 160. Komatsu NTC Ltd. Major Business

Table 161. Komatsu NTC Ltd. Friction Stir Welding Equipment Product and Services

Table 162. Komatsu NTC Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Komatsu NTC Ltd. Recent Developments/Updates

Table 164. Komatsu NTC Ltd. Competitive Strengths & Weaknesses

Table 165. Hebei Daheng Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Hebei Daheng Co., Ltd. Major Business

Table 167. Hebei Daheng Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 168. Hebei Daheng Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Hebei Daheng Co., Ltd. Recent Developments/Updates

Table 170. Hebei Daheng Co., Ltd. Competitive Strengths & Weaknesses

Table 171. Yamazaki Mazak Corporation Basic Information, Manufacturing Base and Competitors

Table 172. Yamazaki Mazak Corporation Major Business

Table 173. Yamazaki Mazak Corporation Friction Stir Welding Equipment Product and Services

Table 174. Yamazaki Mazak Corporation Friction Stir Welding Equipment Production (K

Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Yamazaki Mazak Corporation Recent Developments/Updates

Table 176. Yamazaki Mazak Corporation Competitive Strengths & Weaknesses

Table 177. Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Major Business

Table 179. Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 180. Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Recent Developments/Updates

Table 182. Ningbo Jinfeng Welding & Cutting Machinery Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

Table 183. Risong Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Risong Technology Co., Ltd. Major Business

Table 185. Risong Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 186. Risong Technology Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Risong Technology Co., Ltd. Recent Developments/Updates

Table 188. Risong Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Dongguan Songzhi Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 190. Dongguan Songzhi Technology Co., Ltd. Major Business

Table 191. Dongguan Songzhi Technology Co., Ltd. Friction Stir Welding Equipment Product and Services

Table 192. Dongguan Songzhi Technology Co., Ltd. Friction Stir Welding Equipment Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Dongguan Songzhi Technology Co., Ltd. Recent Developments/Updates

Table 194. Dongguan Songzhi Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 195. Global Key Players of Friction Stir Welding Equipment Upstream (Raw

Materials)

Table 196. Global Friction Stir Welding Equipment Typical Customers

Table 197. Friction Stir Welding Equipment Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Friction Stir Welding Equipment Picture

Figure 2. World Friction Stir Welding Equipment Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Friction Stir Welding Equipment Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Friction Stir Welding Equipment Production (2021-2032) & (K Units)

Figure 5. World Friction Stir Welding Equipment Average Price (2021-2032) & (USD/Unit)

Figure 6. World Friction Stir Welding Equipment Production Value Market Share by Region (2021-2032)

Figure 7. World Friction Stir Welding Equipment Production Market Share by Region (2021-2032)

Figure 8. North America Friction Stir Welding Equipment Production (2021-2032) & (K Units)

Figure 9. Europe Friction Stir Welding Equipment Production (2021-2032) & (K Units)

Figure 10. China Friction Stir Welding Equipment Production (2021-2032) & (K Units)

Figure 11. Japan Friction Stir Welding Equipment Production (2021-2032) & (K Units)

Figure 12. Friction Stir Welding Equipment Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 15. World Friction Stir Welding Equipment Consumption Market Share by Region (2021-2032)

Figure 16. United States Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 17. China Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 18. Europe Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 19. Japan Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 20. South Korea Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 22. India Friction Stir Welding Equipment Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Friction Stir Welding Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Friction Stir Welding Equipment Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Friction Stir Welding Equipment Markets in 2025

Figure 26. United States VS China: Friction Stir Welding Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Friction Stir Welding Equipment Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Friction Stir Welding Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Friction Stir Welding Equipment Production Market Share 2025

Figure 30. China Based Manufacturers Friction Stir Welding Equipment Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Friction Stir Welding Equipment Production Market Share 2025

Figure 32. World Friction Stir Welding Equipment Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Friction Stir Welding Equipment Production Value Market Share by Type in 2025

Figure 34. Robotic Welding Machine

Figure 35. Benchtop Welding Machine

Figure 36. Gantry Welding Machine

Figure 37. World Friction Stir Welding Equipment Production Market Share by Type (2021-2032)

Figure 38. World Friction Stir Welding Equipment Production Value Market Share by Type (2021-2032)

Figure 39. World Friction Stir Welding Equipment Average Price by Type (2021-2032) & (USD/Unit)

Figure 40. World Friction Stir Welding Equipment Production Value by Mode, (USD Million), 2021 & 2025 & 2032

Figure 41. World Friction Stir Welding Equipment Production Value Market Share by Mode in 2025

Figure 42. Semi-Automatic

Figure 43. Fully-Automatic

Figure 44. World Friction Stir Welding Equipment Production Market Share by Mode (2021-2032)

Figure 45. World Friction Stir Welding Equipment Production Value Market Share by Mode (2021-2032)

Figure 46. World Friction Stir Welding Equipment Average Price by Mode (2021-2032) & (USD/Unit)

Figure 47. World Friction Stir Welding Equipment Production Value by Head Number, (USD Million), 2021 & 2025 & 2032

Figure 48. World Friction Stir Welding Equipment Production Value Market Share by Head Number in 2025

Figure 49. Single-Head FSW Machine

Figure 50. Double-Head FSW Machine

Figure 51. World Friction Stir Welding Equipment Production Market Share by Head Number (2021-2032)

Figure 52. World Friction Stir Welding Equipment Production Value Market Share by Head Number (2021-2032)

Figure 53. World Friction Stir Welding Equipment Average Price by Head Number (2021-2032) & (USD/Unit)

Figure 54. World Friction Stir Welding Equipment Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Friction Stir Welding Equipment Production Value Market Share by Application in 2025

Figure 56. Aerospace

Figure 57. Automotive

Figure 58. Shipbuilding

Figure 59. Railways

Figure 60. Others

Figure 61. World Friction Stir Welding Equipment Production Market Share by Application (2021-2032)

Figure 62. World Friction Stir Welding Equipment Production Value Market Share by Application (2021-2032)

Figure 63. World Friction Stir Welding Equipment Average Price by Application (2021-2032) & (USD/Unit)

Figure 64. Friction Stir Welding Equipment Industry Chain

Figure 65. Friction Stir Welding Equipment Procurement Model

Figure 66. Friction Stir Welding Equipment Sales Model

Figure 67. Friction Stir Welding Equipment Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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