

# Friction Stir Welding Equipment Market Report by Equipment Type (Mobile Friction Stir Welding Equipment, Fixed Friction Stir Welding Equipment, and Others), End-Use Industry (Automotive Industry, Aerospace Industry, Railway Industry, Shipbuilding Industry, and Others), and Region 2024-2032

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## Abstracts

The global friction stir welding equipment market size reached US\$ 227.3 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 374.3 Million by 2032, exhibiting a growth rate (CAGR) of 5.5% during 2024-2032.

Friction stir welding (FSW) refers to a solid-state welding technique that assists in joining two workpieces without melting the material. It relies on a non-consumable tool that rotates and plunges into the interface of the workpiece and then moves through it by using frictional heat that softens the material. It forms a joint similar in appearance to other welding techniques without the requirement of flux, filler metal or shielding gas and thus offers the unique advantages of cost-savings and weight reduction.

### Friction Stir Welding Equipment Market Trends:

The market is currently experiencing growth on account of various product advantages, including the limited impact on health and the environment, and improved process robustness and mechanical properties like tensile strength and fatigue resistance. Moreover, it does not need a protective atmosphere for utilization. It is also highly suitable for welding preventive maintenance (PM) parts as it enables pore closure, which leads to a pore-free weld interface and a refined microstructure. Apart from this, it is useful in breaking down the oxide layer deposited on the particles by intense deformation within the weld region. Furthermore, the application of FSW equipment is

expanding across different industries. For instance, it is employed in the automotive sector on account of the escalating demand for aluminum-based chassis and the increasing focus on reducing the weight of vehicles. Aluminum components in a car, such as rear axles, driveshafts, bumper beams, rear spoilers, and crash boxes, can be welded using the FSW equipment. Besides this, it is utilized in the aerospace industry to reduce the weight of the aerospace components and overall fuel consumption.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global friction stir welding equipment market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on equipment type and end-use industry.

#### Breakup by Equipment Type:

- Mobile Friction Stir Welding Equipment
- Fixed Friction Stir Welding Equipment
- Others

#### Breakup by End-Use Industry:

- Automotive Industry
- Aerospace Industry
- Railway Industry
- Shipbuilding Industry
- Others

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
- Australia

Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Beijing FSW Technology Co. Ltd., Colfax Corporation, Fooke GmbH, Gatwick Technologies Ltd., General Tool Company, Grenzebach Maschinenbau GmbH, Hitachi High-Tech Corporation, KUKA Systems GmbH (Midea Group Co. Ltd.), Manufacturing Technology Inc., Par Systems LLC (Pohlad Companies), etc.

#### Key Questions Answered in This Report

1. What is the size of the global friction stir welding equipment market in 2023?
2. What are the key factors driving the global friction stir welding equipment market?
3. What has been the impact of COVID-19 on the global friction stir welding equipment market?
4. What is the breakup of the global friction stir welding equipment market based on the equipment type?
5. What is the breakup of the global friction stir welding equipment market based on the end-use industry?
6. What are the key regions in the global friction stir welding equipment market?
7. Who are the key players/companies in the global friction stir welding equipment market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL FRICTION STIR WELDING EQUIPMENT MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY EQUIPMENT TYPE**

- 6.1 Mobile Friction Stir Welding Equipment
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Fixed Friction Stir Welding Equipment
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

## **7 MARKET BREAKUP BY END-USE INDUSTRY**

7.1 Automotive Industry

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Aerospace Industry

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Railway Industry

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Shipbuilding Industry

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

- 8.2.3.2 Market Forecast
- 8.2.4 South Korea
  - 8.2.4.1 Market Trends
  - 8.2.4.2 Market Forecast
- 8.2.5 Australia
  - 8.2.5.1 Market Trends
  - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
  - 8.2.6.1 Market Trends
  - 8.2.6.2 Market Forecast
- 8.2.7 Others
  - 8.2.7.1 Market Trends
  - 8.2.7.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Germany
    - 8.3.1.1 Market Trends
    - 8.3.1.2 Market Forecast
  - 8.3.2 France
    - 8.3.2.1 Market Trends
    - 8.3.2.2 Market Forecast
  - 8.3.3 United Kingdom
    - 8.3.3.1 Market Trends
    - 8.3.3.2 Market Forecast
  - 8.3.4 Italy
    - 8.3.4.1 Market Trends
    - 8.3.4.2 Market Forecast
  - 8.3.5 Spain
    - 8.3.5.1 Market Trends
    - 8.3.5.2 Market Forecast
  - 8.3.6 Russia
    - 8.3.6.1 Market Trends
    - 8.3.6.2 Market Forecast
  - 8.3.7 Others
    - 8.3.7.1 Market Trends
    - 8.3.7.2 Market Forecast
- 8.4 Latin America
  - 8.4.1 Brazil
    - 8.4.1.1 Market Trends
    - 8.4.1.2 Market Forecast

## 8.4.2 Mexico

### 8.4.2.1 Market Trends

### 8.4.2.2 Market Forecast

## 8.4.3 Others

### 8.4.3.1 Market Trends

### 8.4.3.2 Market Forecast

## 8.5 Middle East and Africa

### 8.5.1 Market Trends

### 8.5.2 Market Breakup by Country

### 8.5.3 Market Forecast

## **9 SWOT ANALYSIS**

### 9.1 Overview

### 9.2 Strengths

### 9.3 Weaknesses

### 9.4 Opportunities

### 9.5 Threats

## **10 VALUE CHAIN ANALYSIS**

## **11 PORTERS FIVE FORCES ANALYSIS**

### 11.1 Overview

### 11.2 Bargaining Power of Buyers

### 11.3 Bargaining Power of Suppliers

### 11.4 Degree of Competition

### 11.5 Threat of New Entrants

### 11.6 Threat of Substitutes

## **12 PRICE INDICATORS**

## **13 COMPETITIVE LANDSCAPE**

### 13.1 Market Structure

### 13.2 Key Players

### 13.3 Profiles of Key Players

#### 13.3.1 Beijing FSW Technology Co. Ltd.

##### 13.3.1.1 Company Overview

- 13.3.1.2 Product Portfolio
- 13.3.2 Colfax Corporation
  - 13.3.2.1 Company Overview
  - 13.3.2.2 Product Portfolio
  - 13.3.2.3 Financials
  - 13.3.2.4 SWOT Analysis
- 13.3.3 Fooke GmbH
  - 13.3.3.1 Company Overview
  - 13.3.3.2 Product Portfolio
  - 13.3.3.3 Financials
- 13.3.4 Gatwick Technologies Ltd.
  - 13.3.4.1 Company Overview
  - 13.3.4.2 Product Portfolio
  - 13.3.4.3 Financials
- 13.3.5 General Tool Company
  - 13.3.5.1 Company Overview
  - 13.3.5.2 Product Portfolio
- 13.3.6 Grenzebach Maschinenbau GmbH
  - 13.3.6.1 Company Overview
  - 13.3.6.2 Product Portfolio
  - 13.3.6.3 Financials
- 13.3.7 Hitachi High-Tech Corporation
  - 13.3.7.1 Company Overview
  - 13.3.7.2 Product Portfolio
  - 13.3.7.3 Financials
  - 13.3.7.4 SWOT Analysis
- 13.3.8 KUKA Systems GmbH (Midea Group Co. Ltd.)
  - 13.3.8.1 Company Overview
  - 13.3.8.2 Product Portfolio
- 13.3.9 Manufacturing Technology Inc.
  - 13.3.9.1 Company Overview
  - 13.3.9.2 Product Portfolio
- 13.3.10 Par Systems LLC (Pohlad Companies)
  - 13.3.10.1 Company Overview
  - 13.3.10.2 Product Portfolio
  - 13.3.10.3 Financials



## List Of Tables

### LIST OF TABLES

Table 1: Global: Friction Stir Welding Equipment Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Friction Stir Welding Equipment Market Forecast: Breakup by Equipment Type (in Million US\$), 2024-2032

Table 3: Global: Friction Stir Welding Equipment Market Forecast: Breakup by End-Use Industry (in Million US\$), 2024-2032

Table 4: Global: Friction Stir Welding Equipment Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Friction Stir Welding Equipment Market Structure

Table 6: Global: Friction Stir Welding Equipment Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Friction Stir Welding Equipment Market: Major Drivers and Challenges

Figure 2: Global: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018-2023

Figure 3: Global: Friction Stir Welding Equipment Market: Breakup by Equipment Type (in %), 2023

Figure 4: Global: Friction Stir Welding Equipment Market: Breakup by End-Use Industry (in %), 2023

Figure 5: Global: Friction Stir Welding Equipment Market: Breakup by Region (in %), 2023

Figure 6: Global: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 7: Global: Friction Stir Welding Equipment (Mobile Friction Stir Welding Equipment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 8: Global: Friction Stir Welding Equipment (Mobile Friction Stir Welding Equipment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 9: Global: Friction Stir Welding Equipment (Fixed Friction Stir Welding Equipment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Friction Stir Welding Equipment (Fixed Friction Stir Welding Equipment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Friction Stir Welding Equipment (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Friction Stir Welding Equipment (Others) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Friction Stir Welding Equipment (Automotive Industry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Friction Stir Welding Equipment (Automotive Industry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Friction Stir Welding Equipment (Aerospace Industry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Friction Stir Welding Equipment (Aerospace Industry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Friction Stir Welding Equipment (Railway Industry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Friction Stir Welding Equipment (Railway Industry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Friction Stir Welding Equipment (Shipbuilding Industry) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Friction Stir Welding Equipment (Shipbuilding Industry) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Friction Stir Welding Equipment (Other End-Use Industries) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Friction Stir Welding Equipment (Other End-Use Industries) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: North America: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: North America: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: United States: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: United States: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Canada: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Canada: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Asia Pacific: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Asia Pacific: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: China: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: China: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Japan: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Japan: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: India: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: India: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: South Korea: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: South Korea: Friction Stir Welding Equipment Market Forecast: Sales Value

(in Million US\$), 2024-2032

Figure 39: Australia: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Australia: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Indonesia: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Indonesia: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Others: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Others: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Europe: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Europe: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Germany: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Germany: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: France: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: France: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: United Kingdom: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: United Kingdom: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Italy: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Italy: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Spain: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Spain: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Russia: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Russia: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Others: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Others: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Latin America: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Latin America: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Brazil: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Brazil: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Mexico: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Mexico: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Others: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Others: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Middle East and Africa: Friction Stir Welding Equipment Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Middle East and Africa: Friction Stir Welding Equipment Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Global: Friction Stir Welding Equipment Industry: SWOT Analysis

Figure 72: Global: Friction Stir Welding Equipment Industry: Value Chain Analysis

Figure 73: Global: Friction Stir Welding Equipment Industry: Porter's Five Forces Analysis

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