

# Friction Stir Welding Equipment Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

### Market Overview 2023-2028:

The global friction stir welding equipment market size reached US\$ 213.8 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 311.9 Million by 2028, exhibiting a growth rate (CAGR) of 6.3% during 2023-2028.

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 2023-2028. 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 2022?
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?

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